2018

Catalogue CABEX

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ESPA Italia


ESPA

ESPA 2025 SL

Since 1962 Espa has been developing a track record specialising in manufacturing products equipment for pumping and efficient water management. Deploying solutions for professionals, installers and wholesalers, through a range of innovative products.

Espa has become a leader in manufacturing pumping equipment for domestic, residential and commercial uses. The Espa product portfolio provides excellent value due to its innovative nature and design engineering. This offers the correct solution for the most demanding market requirements.

Tens of millions of Espa pumping equipment are in constant operation throughout the world. Thousands of custom installations demonstrate the trust that professionals & users have placed in Espa.

Our customer base covers hotels, education centres, homes for the elderly, housing estates, swimming pools, wellness centres, industrial units, logistic centres, arable & stock farms, gardens, water treatment plants, mining operations & chemical plants. Espa is a global organisation with local presence in its operational and distribution deployment. It has sales organisations in Argentina, Brazil, Chile, China, France, Germany, India, Italy, Russia, Spain, Turkey and the United Kingdom. It also has production centres in Chile, China, France and Spain.

Innovation, engineering & service: These are the attributes that mark Espa's efficient pumping products and our quality. We are a customer-orientated organisation designed to be immediate and close to the customer. We have a demanding product development process that is based on knowledge of the technological and market requirements.

Our commitment is to enter into a business relationship with our customers & suppliers that guarantees complete satisfaction for all parties. Our goal is to assist our customers in gaining a market advantage, while earning a fair return. Also to achieve an improved return on our investment thorough quality, both in terms of service and the products supplied.

Espa Efficient Engineering sums up the spirit of innovation. It focuses on studying & applying the most suitable technologies, plus the concept of efficient equipment for the pumping and engineering sector.

ESPA
Innovative Solutions

E³
ESPA
Efficient
Engineering

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IE3, electric motors with maximum efficiency

One of ESPA's core values is the continuous improvement to offer solutions that are adapted to current & future market demands, to meet customers' needs and to safeguard impact to the environment.

With this strong commitment, ESPA complies to the legislation as stated by the European Union to reduce energy consumption and CO2 emissions. The Directive 2005/32/CE introduces environmentally friendly requirements for energy using products to restrict environmental impact.

Since January 1st 2017, ESPA has been manufacturing all its three phase motors over 0,75 kW for surface pumps in accordance with the directive. At present only coupling pumps are included in the directive, however ESPA have also followed the directive for motors on its mono bloc pumps.

THE DIRECTIVE 2005/32/CE

The third phase of the (CE) 640/2009 Regulation of motor efficiency came into force on 1 January 2017, requiring that three phase motors with input power between 0,75 and 375 kW must meet the efficiency level IE3, known as Premium Efficiency.

The Directive is applied to three phase electric induction motors of 50 Hz or 50/60 Hz, having from 2 to 6 poles, with a nominal voltage of up to 1000 V, a nominal power between 0,75 kW and 375 kW and designed for a continuous operation. In the field of pumps, it is applied to surface pumps with coupling motors.

ESPA
Innovative Solutions

55
Since 1962

WATER EVACUATION SUBMERSIBLE & DRAINAGE

Acua4 Submersible

Submersible monobloc pumps for 4” wells

Applications
Irrigation, pressurisation, water transfer for 4” wells.

Motor
Internal oil bath cooling and external cooling via circulation of the pumped liquid.
IP 68 protection.
Class F insulation.
Continuous operation.
Built-in thermal protector.
Special sealing lip for protection against sand.

Limitations
Maximum quantity of sand in suspension: 40 g/m³.
Maximum liquid temperature: 40 °C.
Maximum number of starts: 40 per hour.
Maximum immersion depth: 40 m.

Materials
Outer casing, motor casing and filter in stainless steel AISI 304.
Supports in elastomer.
Impellers and diffusers in glass loaded Noryl®.
Motor shaft in stainless steel AISI 420.
Mechanical seal in graphite/NBR.

Equipments
Box version with float and control panel complete with capacitor, circuit breaker and on/off switch.
Supplied with 20 m power cable.
Internal capacitor (external for models 70 and 100).
F Version with special sand filter.

See page 163 Accessorieses.

Hydraulic performance table and prices

Model	P1	P2		I (A)	µF	m.Cable	l/min	10	15	20	25	30	35	40	45	1 x 230 V MA			1 x 230 V		
	Kw	Hp	Kw	1~ 230 V			m³/h	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acua4 35	0,65	0,5	0,37	2,8	14	20	mwc	35	28	25	20	15	10	5	0	Acua435MA	333,00	E1			
Acua4 55	0,9	0,75	0,55	4	20	20		53	47	41	35	28	21	15	10	Acua455MA	379,00	E2	Acua455M	355,00	E4

Model	P1	P2		I (A)		µF	m.Cable	l/min	10	20	30	40	60	70	80	90	1 x 230 V MA			1 x 230 V M			3 x 400 V		
	Kw	Hp	Kw	1~ 230 V	3~ 400 V			m³/h	0,5	1,2	1,8	2,4	3,6	4,2	4,8	5,4	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acua4 70	1,5	1	0,75	7	2,3	25	20	mwc	65	60	55	50	42	35	26	13	Acua470MA	449,00	E3	Acua470M	435,00	E1	Acua470	435,00	E1
Acua4 100	2	1,5	1,1	9	3,5	40	20		93	88	83	76	57	45	30	14	Acua4100MA	508,00	E3	Acua4100M	494,00	E1	Acua4100	494,00	E1
Acua4 70 BOX	1,5	1	0,75	7	2,3	25	20		65	60	55	50	42	35	26	13	Acua470MABOX	497,00	E3						
Acua4 100 BOX	2	1,5	1,1	9	3,5	40	20		93	88	83	76	57	45	30	14	Acua4100MABOX	561,00	E3						

F Version with anti-sand filter

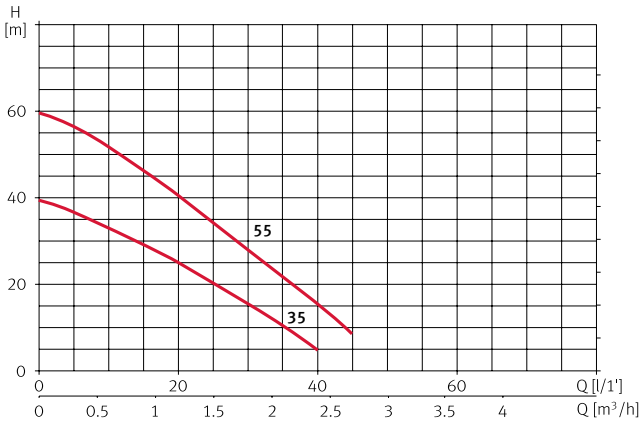
Model	1~230 V (Model M F)			1~230 V (Model MA F)		
	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acua4 35				Acua435MA-F	390,00	E1
Acua4 55	Acua455M-F	413,00	E4	Acua455MA-F	436,00	E2

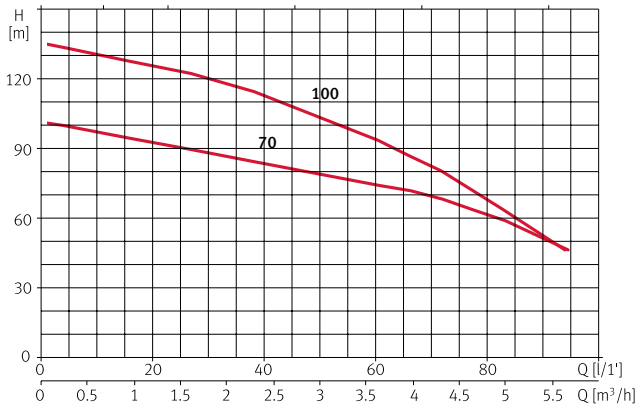
Model	1~230 V (Model M F)			1~230 V (Model MA F)			1~230 V (Model F)		
	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acua4 70	Acua470M-F	492,00	E1	Acua470MA-F	506,00	E3	Acua470-F	492,00	E1
Acua4 100	Acua4100M-F	551,00	E1	Acua4100MA-F	565,00	E3	Acua4100-F	551,00	E1
Acua4 70 BOX				Acua470MABOX-F	554,00	E3			
Acua4 100 BOX				Acua4100MABOX-F	618,00	E3			

Anti-sand filter		
Code	Price €	Discount cat.
ACX0001S	57,50	E1

Acua4 Submersible

Performance curves at 2900 rpm

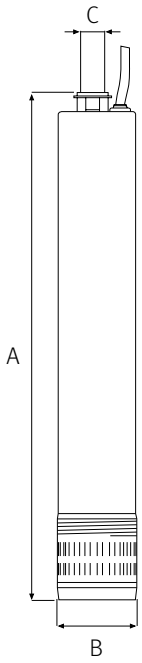




Dimensions and weights

Model	A	B	C	Kg
Acua4 35 MA	470	99	1"	9
Acua4 55 MA	560	99	1"	10

Model	A	B	C	Kg
Acua4 70	565	99	1" ¼	13
Acua4 100	680	99	1" ¼	15



Acuaria 07N/17/27 Submersible

Submersible multi-stage pumps for open wells

Applications
Irrigation, decanting and hydropneumatic sets.

Materials
Outer casing, discharge body, impellers, filter and motor casing in stainless steel AISI 304.
Pump shaft in stainless steel AISI 303.
Diffusers in technopolymer.
Double mechanical seal in ceramic/graphite/NBR.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Water-cooled motor.
Single phase motor with built-in thermal protection.
Acuaria 07N/17/27:
without floating level switch.
Acuaria 07N A/17 A/27 A:
with floating level switch.

Equipments
Complete with 15 m of power cable.
Acuaria 07N M: for open wells with a minimum Ø 125 mm.
Internal capacitor.
Acuaria 17/27 M: for open wells with a minimum Ø 140 mm.
External capacitor (Box extra).

Limitations
Maximum liquid temperature: 40° C.

See page 163 Accessories.

Hydraulic performance table and prices

Model	I [A]		P1 [kW]		P2		c	l/min	10	20	30	40	50	60	65	3~400 V (Model T)		
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	0,6	1,2	1,8	2,4	3,0	3,6	3,9	Code	Price €	Discount cat.
Acuaria 07 3N	2,9		0,6		0,37	0,5	12	mwc	33	29	26	21	15	8	4			
Acuaria 07 4N	4	1,5	0,8	0,8	0,5	0,75	12		41	37	32	26	19	10	6	166210	**447,00**	**E1**
Acuaria 07 5N	4,7	2,2	1	1	0,75	1	12		50	46	40	32	23	13	8	166211	**450,00**	**E1**
Acuaria 07 6N	6,2	2,2	1,2	1,1	0,9	1,2	12		60	55	47	37	26	15	9	166212	**487,00**	**E1**
Acuaria 07 7N	5,5	2,4	1,4	1,3	1,1	1,5	30		70	64	55	44	31	18	11	166213	**515,00**	**E1**

Standard version with internal capacitor

Model	1~230 V (Model M)			1~230 V (Model MA)		
	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acuaria 07 3N	157967	**435,00**	**E1**	157968	**443,00**	**E1**
Acuaria 07 4N	157964	**443,00**	**E1**	157965	**450,00**	**E3**
Acuaria 07 5N	157969	**402,00**	**E1**	143389	**402,00**	**E3**
Acuaria 07 6N	157970	**495,00**	**E1**	157971	**503,00**	**E1**

Version with external capacitor and sacrificial anode

Model	1~230 V (Model M)			1~230 V (Model MA)		
	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acuaria 07 4N				202022	**472,00**	**E3**
Acuaria 07 5N				202023	**420,00**	**E3**
Acuaria 07 7N	157973	**523,00**	**E1**	169292	**531,00**	**E1**

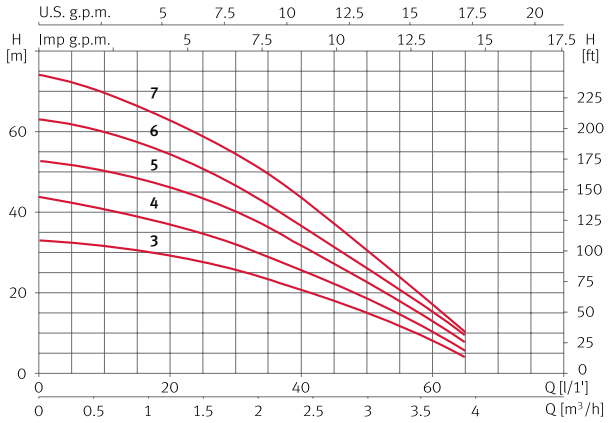
Model	I [A]		P1 [kW]		P2		c	l/min	10	20	30	40	50	60	80	85	1~230 V (Model M)			3~400 V (Model MA)			3~400 V (Model)		
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	0,6	1,2	1,8	2,4	3,0	3,6	4,8	5,1	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acuaria 17 5	7,4		1,6		0,9	1,25	16	mwc	67	65	62	55	48	39	18	12	98310	**503,00**	**E1**	98308	**503,00**	**E1**	98305	**558,00**	**E1**
Acuaria 17 7	10,7	3,8	2,2	2,1	1,5	2,0	25		94	90	85	78	69	58	30	22	98314	**637,00**	**E1**	98313	**678,00**	**E1**	96275	**637,00**	**E1**

Model	I [A]		P1 [kW]		P2		c	l/min	20	30	40	50	60	80	100	120	1~230 V (Model M)			3~400 V (Model MA)			3~400 V		
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,2	1,8	2,4	3,0	3,6	4,8	6,0	7,2	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acuaria 27 4	7	2,5	1,5	1,4	0,9	1,25	16	mwc	43	42	41	39	38	31	23	14	98328	**591,00**	**E1**	98325	**631,00**	**E1**	98323	**591,00**	**E1**
Acuaria 27 6	10,8	3,8	2,2	2,1	1,5	2,0	25		68	66	64	61	57	47	36	24	96359	**599,00**	**E1**	98331	**710,00**	**E1**	96352	**671,00**	**E1**

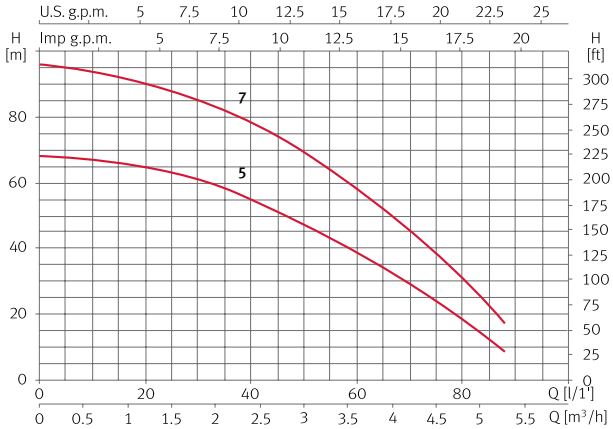
Acuaria 07N/17/27 Submersible

Performance curves at 2900 rpm

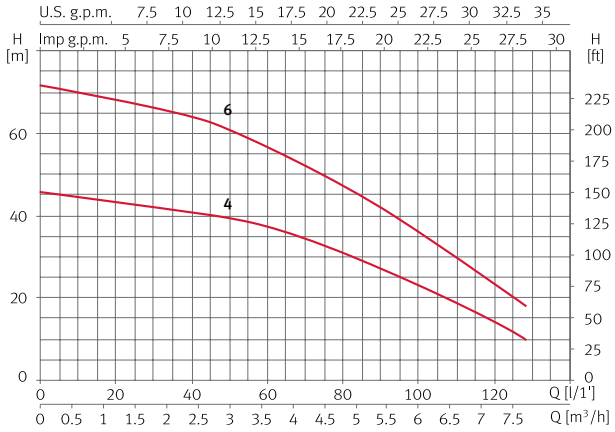
Acuaria 07N



Acuaria 17



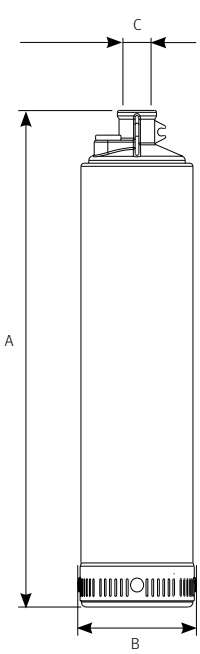
Acuaria 27



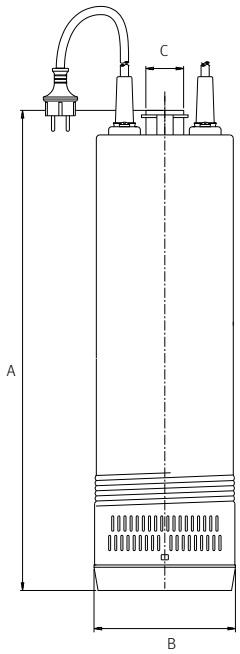
Dimensions and weights

Model	A	B	C	Kg
Acuaria 07 3N	470	126	1"	10,0
Acuaria 07 4N	493	126	1"	10,6
Acuaria 07 5N	517	126	1"	11,5
Acuaria 07 6N	560	126	1"	12,4
Acuaria 07 7N	583	126	1"	12,6
Acuaria 17 5	553	138	1"	14
Acuaria 17 7	646	138	1"	14,2
Acuaria 27 4	552	138	1"	17
Acuaria 27 6	655	138	1"	17,2

Acuaria 07N



Acuaria 17/27



Acuaria 37/57 Submersible

Submersible multi-stage pumps for open wells

Applications
Specially designed for irrigation and hydropneumatic sets.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Water-cooled motor.

Materials
Outer casing, motor casing, impellers and filter in stainless steel AISI 304.
Motor shaft and pump shaft in stainless steel AISI 303.
Diffusers in technopolymer.
Double mechanical seal in ceramic/graphite/NBR.
Pump base and discharge body in cast iron painted with cataforesis.
Foodgrade oil in seal chamber.

Equipments
Complete with 15 m of power cable.
Capacitor (Single phase only, box extra).

Limitations
Maximum liquid temperature: 40 °C.
Max. immersion level according to the technical table on page 156.

ESPA Eco-Efficient Engineering
ErP READY

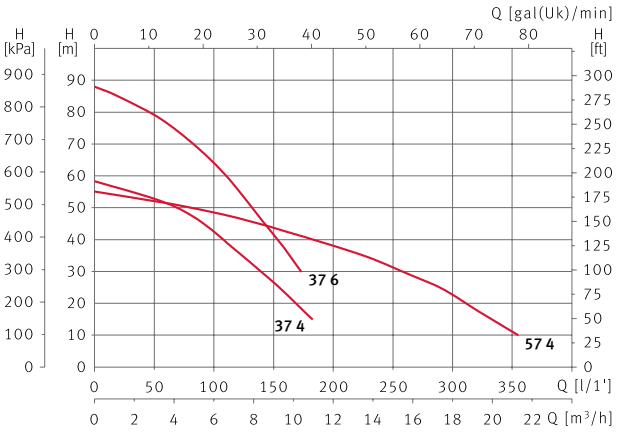
See page 163 Accessorieses.

Hydraulic performance table and prices

Model	I [A]		P1 [kW]		P2		c	l/min	12	40	60	100	120	140	160	1~230 V (Model M)			3~400 V		
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,2	2,4	3,6	6,0	7,2	8,4	8,6	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Acuaria 37 4	9.2	3.3	2	1.9	1.1	1.5	30	mwc	55,7	53,4	50,9	41	35,2	29,1	22,3	144187	**840,00**	**E1**	144184	**844,00**	**E1**
Acuaria 37 6		5.3		3	2.2	3			84,5	80,7	77,4	64,8	56,3	46,1	37,2	96359	**599,00**	**E1**	135381	**919,00**	**E1**

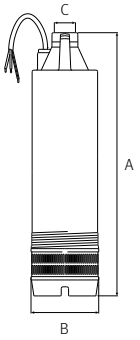
Model	I [A]	P1 [kW]	P2		l/min	50	100	150	200	250	300	350	3~400 V		
	3~ 400 V	3~ 400 V	[kW]	[HP]	m³/h	3,0	6,0	9,0	12	15	18	21	Code	Price €	Discount cat.
Acuaria 57 4	5,4	3	2,2	3	mwc	52,5	48,1	42,2	37,8	31,5	23,2	12,1	144193	**955,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	Kg
Acuaria 37 4	622,5	152	1 1/2"	27,6
Acuaria 37 6	671,5	152	1 1/2"	30,6
Acuaria 57 4	684	152	1 1/2"	30,6



Acuapres Submersible

Submersible multistage pumps with built-in pressure control

Applications
Pressurising of domestic water for houses, semi-detached homes, apartments, chalets and rural homes.

Materials
Outer casing, discharge body, impellers, filter, discharge cover and motor casing in stainless steel AISI 304.
Pump shaft in stainless steel AISI 303+F-114. Diffusers in PPO.
Acuapres 4: double mechanical seal in ceramic/graphite/NBR/ AISI 304.
Acuapres 6: double mechanical seal in ceramic/ graphite/aluminium oxide/ AISI 304.
Seal chamber with non-toxic oil.

Limitations
Maximum working pressure 8 bar.
Ø of solids 2 mm.
Maximum 30 start-ups per hour.
Water temperature from 4 °C to 40 °C.
Vertical installation only.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Water-cooled motor.
Incorporated thermal protection.

Equipments
Submersible multistage pump with built-in pressure control and non return valve.
Built-in detection and shutdown device to protect against dry running, with 4 sequential restart attempts.
Equipped with anti-blockage security feature which starts for 2 seconds for every 100 hours it is idle.
Oil chamber with two mechanical seals.
Acuapres 4: starting pressure at 2 bar.
Acuapres 6: starting pressure at 3 bar.

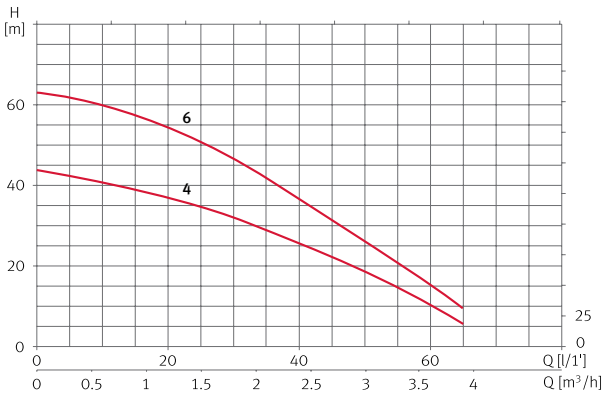
Stainless steel impeller

Electronic pressure control

Hydraulic performance table and prices

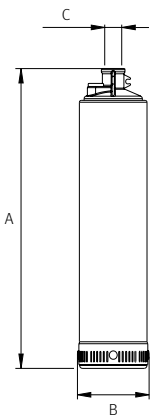
Model	I (A)	P1 (kW)	P2		µF	l/min	10	20	30	40	50	60	65	1~230 V (Model M)		
	1~ 230 V	1~	(kW)	(HP)		m^3/h	0,6	1,2	1,8	2,4	3,0	3,6	3,9	Code	Price €	Discount cat.
Acuapres 4	3,5	0,8	0.5	0.75	12	mwc	41	37	32	26	19	10	6	157966	**527,00**	**E2**
Acuapres 6	5	1,2	0.9	1.2	16		60	55	47	37	26	15	9	157972	**586,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	Kg
Acuapres 4	493	126	1"	10,6
Acuapres 6	560	126	1"	12,4



Rainsub Submersible / Superficie

To work in installations for rain water recovery

Applications
Pressurization of domestic water
for houses, semi-detached homes,
apartments, chalets and
rural homes. Rainwater harwesting.

Materials
Pump housing, motor housing, handle and pump base in stainless steel AISI 304.
Impellers diffusers and spacers in glass fiber reinforced PPO
Mechanical seal in graphite and alumine oil lubed.
Seal rings in NBR

Limitations
Maximum working pressure 8 bar.
Ø of solids 2 mm.
Maximum 30 start-ups per hour.
Water temperature from 4 °C to 40 °C.
Vertical installation only.

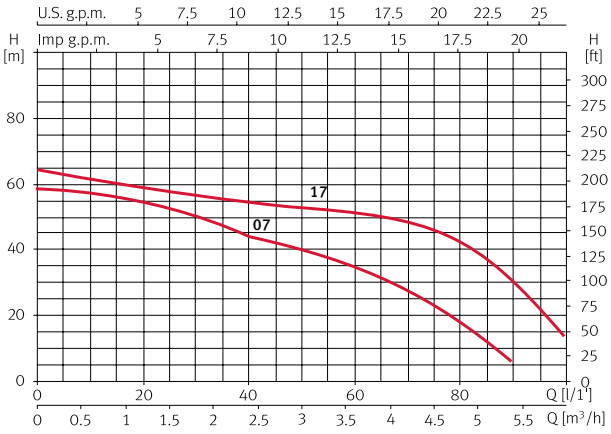
Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Water-cooled motor.
Cooled in mineral oil bath using non-polluting pumped fluid.
Single phase motor with built-in thermal protection.
Capacitor enclosed in pump in single-phase versions.

Equipments
Complete with 20 m of power cable.
Silicon carbide seals available on request.

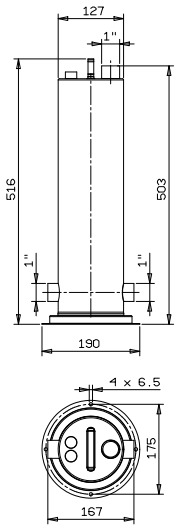
Hydraulic performance table and prices

Model	Weight Kg	I (A)		P1 (kW)	P2		µF	l/min	10	20	30	40	60	70	80	90	100	120	1~230 V (Model M)		
		1~ 230 V	3~ 400 V	1~	(kW)	(HP)		m³/h	0,6	1,2	1,8	2,4	3,6	4,2	4,8	5,4		5,4	Code	Price €	Discount cat.
Rainsub 07 6	13	6	2,7	0,8	0,9	1,3	25	mwc	55	54	50	44	36	27	18	8			Rainsub076M	553,00	E1
Rainsub 17 6	16	8,5	3,2	1,2	1,2	1,8	40		62	60		55	48		38		30	13	Rainsub176M	653,00	E1

Performance curves at 2900 rpm



Dimensions



ES4 Submersible

Submersible pump with floating impellers

Applications
Domestic applications, irrigation, pressurisation, water transfer, suitable for 4" wells and above.

Materials
Outer case, discharge body, suction strainer, pump support and pump shaft in stainless steel AISI 304.
Diffusers in technopolymer.
Floating impellers in Noryl® (glass loaded polymer).

Equipments
Complete with pre-fitted cable tail.
Integral non return valve.

Limitations
Maximum liquid temperature: 40 °C.
Maximum quantity of sand in suspension: 150 g/m³.
For NEMA 4" submersible motors nominal speed (rpm) 3000 rpm.

ESPA Eco-Efficient Engineering
ErP READY

Control panel and accessories for submersible pumps, see page 162 and 163.

Hydraulic performance table and prices

Model	P2		l/min	0	5	10	15	20	25	Code	Price €	Discount cat.
	[kW]	[HP]	m³/h	0	0,3	0,6	0,9	1,2	1,5			
ES4 01 10	0,37	0,5	mwc	67	63	55	46	33	18	ES40110	**171,00**	**E3**
ES4 01 13	0,37	0,5		86	78	70	56	42	23	ES40113	**203,00**	**E3**
ES4 01 19	0,55	0,75		126	118	105	86	60	30	ES40119	**239,00**	**E3**
ES4 01 26	0,75	1		173	160	141	117	81	39	ES40126	**331,00**	**E3**
ES4 01 38	1,1	1,5		253	234	208	169	117	52	ES40138	**474,00**	**E3**

Model	P2		l/min	0	20	25	30	40	50	Code	Price €	Discount cat.
	[kW]	[HP]	m³/h	0	1,2	1,5	1,8	2,4	3,0			
ES4 02 05	0,37	0,5	mwc	34	31	29	27	23	16	ES40205	**134,00**	**E3**
ES4 02 07	0,37	0,5		46	42	39	36	29	22	ES40207	**150,00**	**E3**
ES4 02 10	0,55	0,75		69	63	60	55	44	29	ES40210	**178,00**	**E3**
ES4 02 14	0,75	1		92	83	79	74	60	42	ES40214	**210,00**	**E3**
ES4 02 20	1,1	1,5		139	127	120	111	90	60	ES40220	**264,00**	**E3**
ES4 02 28	1,5	2		193	176	167	155	125	83	ES40228	**360,00**	**E3**
ES4 02 40	2,2	3		267	252	239	222	179	118	ES40240	**474,00**	**E3**

Model	P2		l/min	0	20	30	40	50	70	Code	Price €	Discount cat.
	[kW]	[HP]	m³/h	0	1,2	1,8	2,4	3,0	4,2			
ES4 03 05	0,37	0,5	mwc	34	32	30	28	24	13	ES40305	**132,00**	**E3**
ES4 03 08	0,55	0,75		54	51	49	43	38	19	ES40308	**153,00**	**E3**
ES4 03 11	0,75	1		72	68	64	58	49	26	ES40311	**182,00**	**E3**
ES4 03 16	1,1	1,5		106	101	95	83	70	33	ES40316	**228,00**	**E3**
ES4 03 21	1,5	2		142	135	127	115	100	49	ES40321	**267,00**	**E3**
ES4 03 32	2,2	3		208	200	187	165	138	62	ES40332	**348,00**	**E3**

ES4 Submersible

Hydraulic performance table and prices

Model	P2		l/min	0	40	50	70	90	100	Code	Price €	Discount cat.
	[kW]	[HP]	m³/h	0	2,4	3,0	4,2	5,4	6,0			
ES4 04 04	0,37	0,5	mwc	26	22	21	17	11	7	ES40404	**134,00**	**E3**
ES4 04 06	0,55	0,75		38	35	32	26	18	12	ES40406	**161,00**	**E3**
ES4 04 08	0,75	1		51	46	43	35	24	18	ES40408	**171,00**	**E3**
ES4 04 09	0,75	1		59	51	47	37	20	10	ES40409	**178,00**	**E3**
ES4 04 12	1,1	1,5		77	71	68	57	41	31	ES40412	**217,00**	**E3**
ES4 04 14	1,1	1,5		93	81	76	58	33	20	ES40414	**267,00**	**E3**
ES4 04 16	1,5	2		102	96	92	77	57	46	ES40416	**267,00**	**E3**
ES4 04 24	2,2	3		151	139	132	111	80	62	ES40424	**338,00**	**E3**
ES4 04 32	3	4		203	185	175	146	105	80	ES40432	**456,00**	**E3**
ES4 04 40	4	5,5		253	227	216	182	131	102	ES40440	**540,00**	**E3**
ES4 04 44	4	5,5		278	260	247	210	159	127	ES40444	**579,00**	**E3**

Model	P2		l/min	0	50	70	90	120	140	Code	Price €	Discount cat.
	[kW]	[HP]	m³/h	0	3,0	4,2	5,4	7,2	8,4			
ES4 06 07	0,75	1	mwc	42	36	32	28	19	11	ES40607	**177,00**	**E3**
ES4 06 10	1,1	1,5		62	53	48	41	29	18	ES40610	**221,00**	**E3**
ES4 06 14	1,5	2		90	77	71	63	46	28	ES40614	**267,00**	**E3**
ES4 06 20	2,2	3		125	107	97	86	62	40	ES40620	**331,00**	**E3**
ES4 06 27	3,0	4		169	145	131	115	84	55	ES40627	**415,00**	**E3**
ES4 06 34	4	5,5		208	178	162	143	103	66	ES40634	**516,00**	**E3**
ES4 06 36	4	5,5		221	190	173	154	112	72	ES40636	**548,00**	**E3**
ES4 06 49	5,5	7,5		302	257	234	209	151	96	ES40649	**775,00**	**E3**

Model	P2		l/min	0	80	100	140	180	200	Code	Price €	Discount cat.
	[kW]	[HP]	m³/h	0	4,8	6,0	8,4	10,8	12			
ES4 08 04	0,75	1,0	mwc	26	24	22	19	15	12	ES40804	**149,00**	**E3**
ES4 08 06	1,1	1,5		39	36	34	29	22	17	ES40806	**178,00**	**E3**
ES4 08 08	1,5	2		52	48	46	39	29	24	ES40808	**200,00**	**E3**
ES4 08 13	2,2	3		82	75	71	59	40	30	ES40813	**271,00**	**E3**
ES4 08 17	3	4		108	98	94	79	58	46	ES40817	**306,00**	**E3**
ES4 08 21	4	5,5		132	117	111	93	68	52	ES40821	**356,00**	**E3**
ES4 08 23	4	5,5		148	134	127	108	79	60	ES40823	**392,00**	**E3**
ES4 08 32	5,5	7,5		202	182	172	143	105	80	ES40832	**497,00**	**E3**

Model	P2		l/min	0	100	140	180	220	260	Code	Price €	Discount cat.
	[kW]	[HP]	m³/h	0	6,0	8,4	10,8	13,2	15,6			
ES4 12 07	1,5	2	mwc	45	37	33	28	22	14	ES41207	**251,00**	**E3**
ES4 12 10	2,2	3		64	54	48	41	32	20	ES41210	**313,00**	**E3**
ES4 12 14	3	4		89	76	67	56	43	28	ES41214	**401,00**	**E3**
ES4 12 17	4	5,5		107	90	80	67	51	32	ES41217	**481,00**	**E3**
ES4 12 19	4	5,5		120	102	91	76	58	37	ES41219	**536,00**	**E3**
ES4 12 26	5,5	7,5		163	136	120	100	75	48	ES41226	**728,00**	**E3**

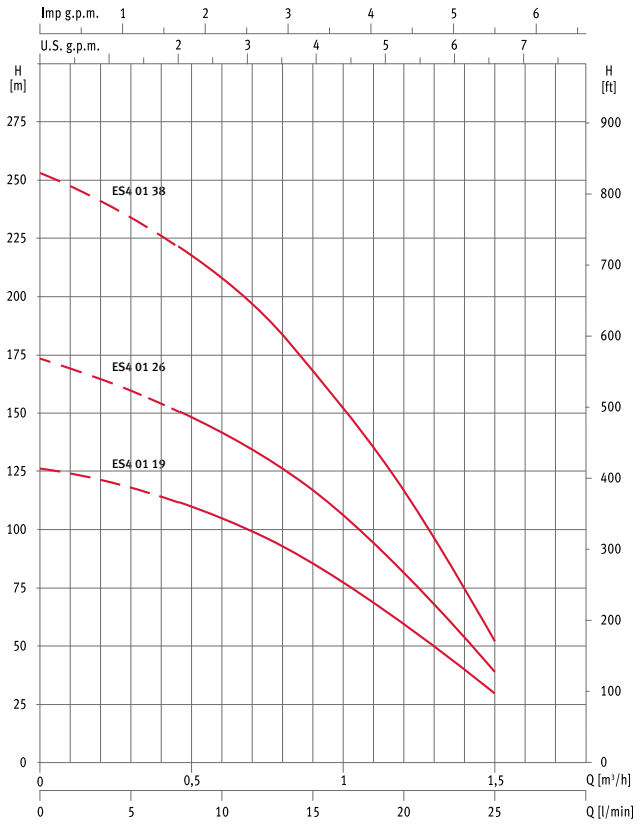
Model	P2		l/min	0	140	200	260	320	400	Code	Price €	Discount cat.
	[kW]	[HP]	m³/h	0	8,4	12	15,6	19,2	24			
ES4 16 08	2,2	3	mwc	51	41	35	29	22	12	ES41608	**324,00**	**E3**
ES4 16 11	3	4		70	57	49	41	31	18	ES41611	**407,00**	**E3**
ES4 16 13	4	5,5		81	67	58	48	38	22	ES41613	**454,00**	**E3**
ES4 16 15	4	5,5		97	79	69	58	46	27	ES41615	**541,00**	**E3**
ES4 16 20	5,5	7,5		125	102	89	74	60	37	ES41620	**690,00**	**E3**

Description	Code	Price €	Discount cat.
Surcharge for hydraulic/motor assembly	ASSEP	**37,50**	**E1**

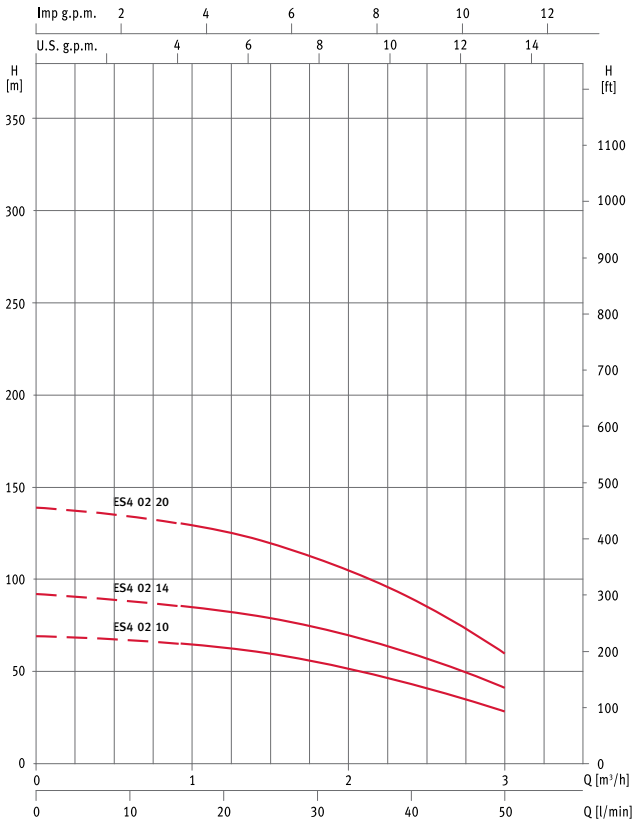
Models in bold usually in stock

Performance curves at 2900 rpm

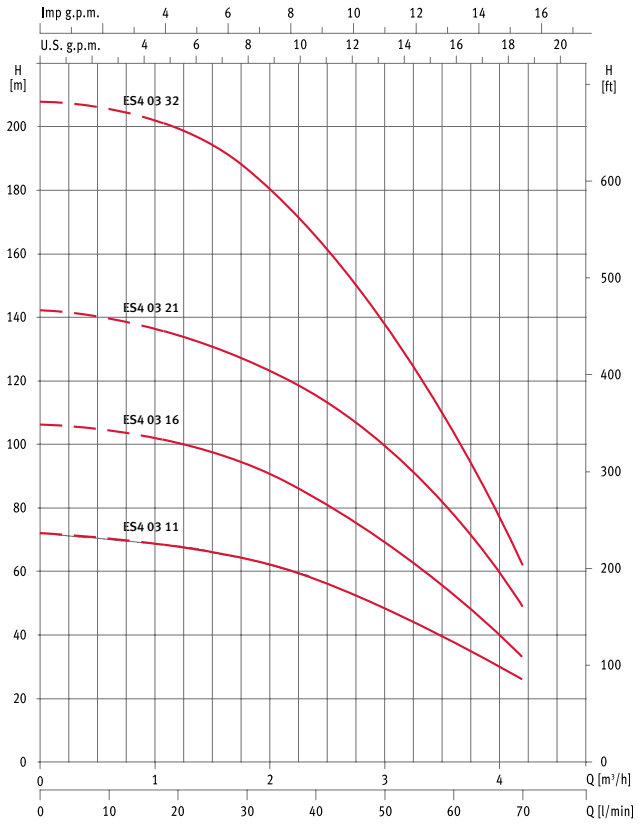
ES4 01



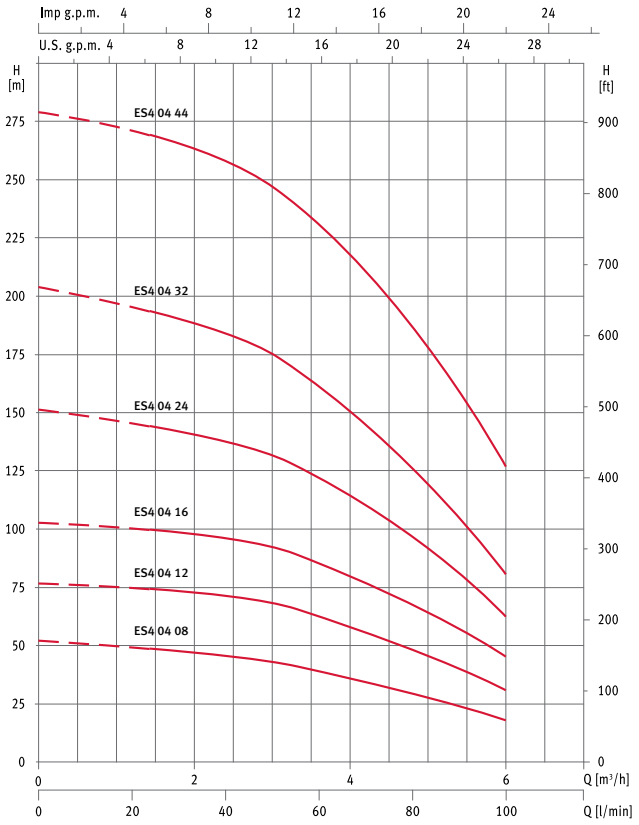
ES4 02



ES4 03



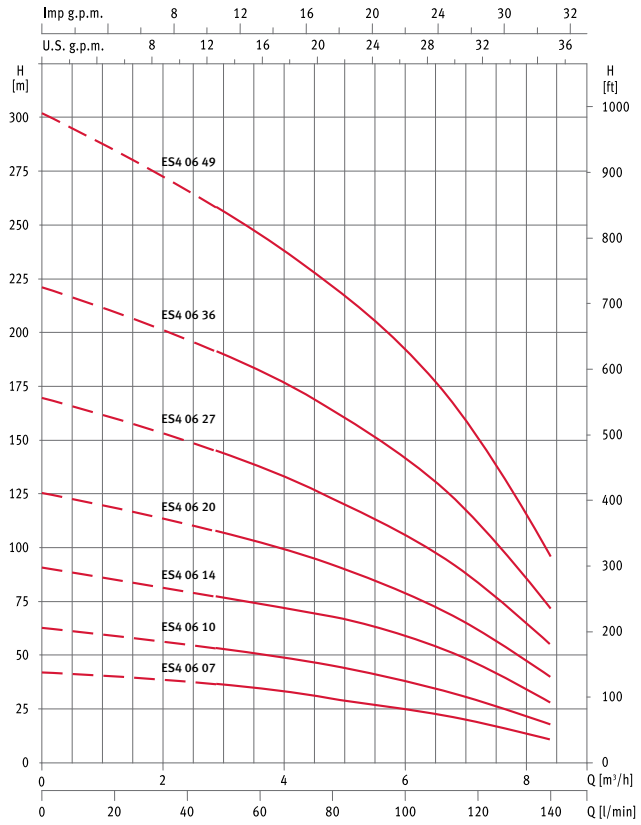
ES4 04



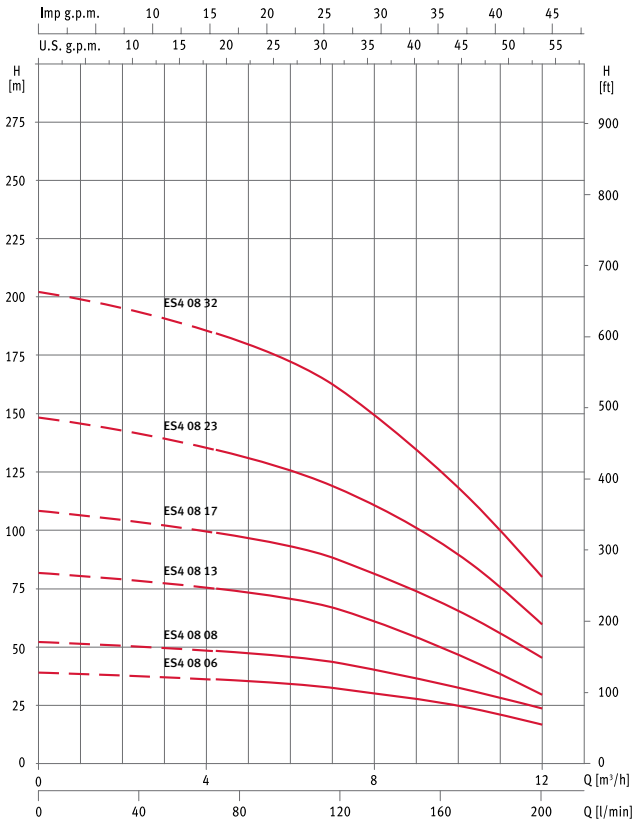
ES4 Submersible

Performance curves at 2900 rpm

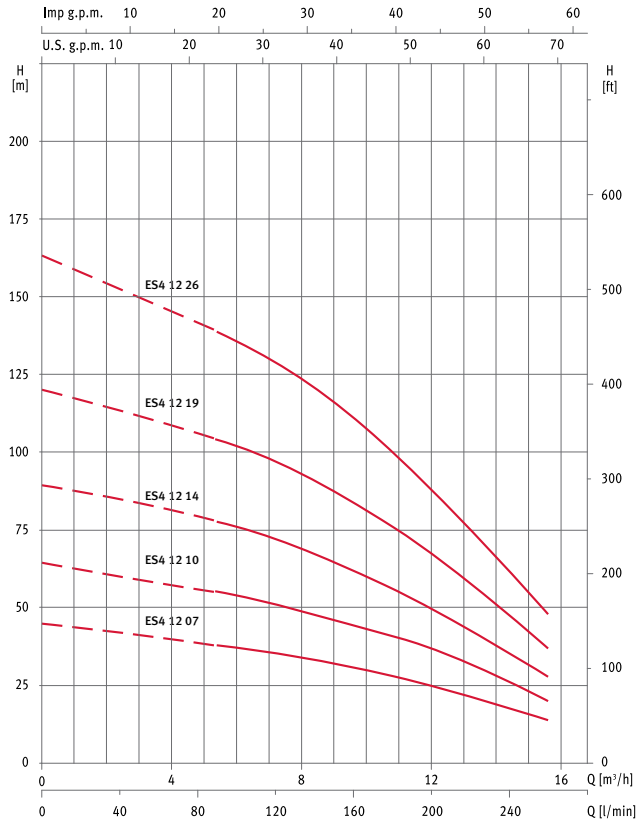
ES4 06



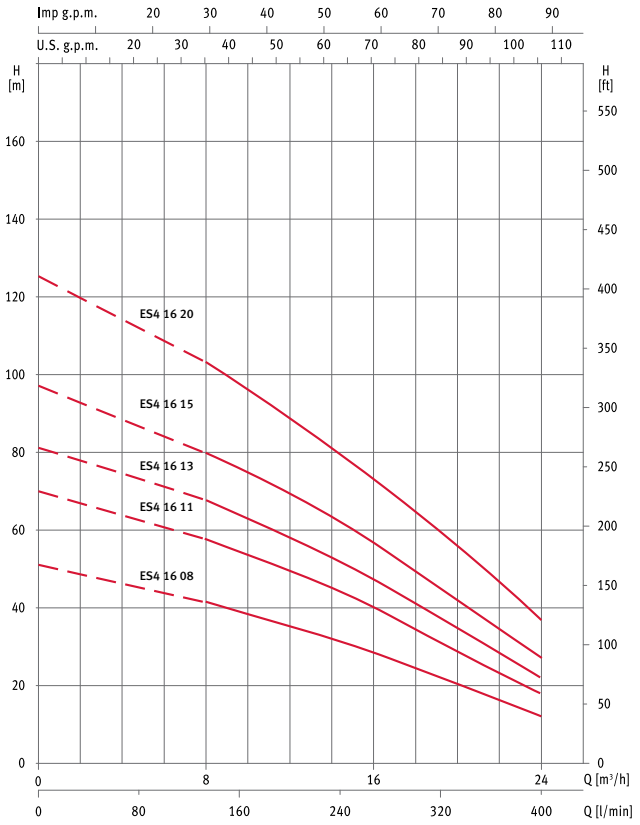
ES4 08



ES4 12



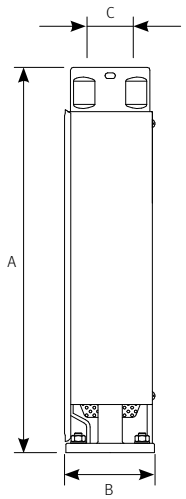
ES4 16



Dimensions and weights

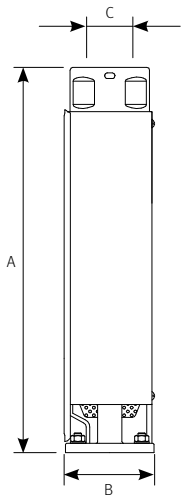
ES4 01

Model	A	B	C	Kg
ES4 01 19	481	98	1 1/4"	4,7
ES4 01 26	642	98	1 1/4"	5,8
ES4 01 38	864	98	1 1/4"	8,2



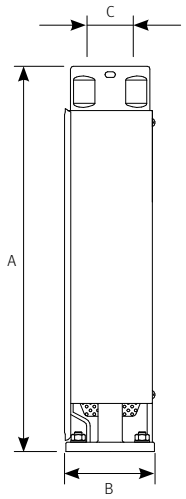
ES4 02

Model	A	B	C	Kg
ES4 02 10	324	98	1 1/4"	3,3
ES4 02 14	394	98	1 1/4"	3,9
ES4 02 20	499	98	1 1/4"	4,9



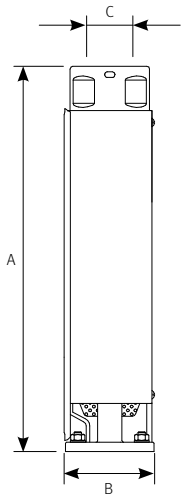
ES4 03

Model	A	B	C	Kg
ES4 03 11	342	98	1 1/4"	3.4
ES4 03 16	430	98	1 1/4"	4.2
ES4 03 21	519	98	1 1/4"	5.0
ES4 03 32	749	98	1 1/4"	7.1



ES4 04

Model	A	B	C	Kg
ES4 04 08	345	98	1 1/4"	3,3
ES4 04 12	433	98	1 1/4"	4,1
ES4 04 16	542	98	1 1/4"	5,0
ES4 04 24	777	98	1 1/4"	6,6
ES4 04 32	965	98	1 1/4"	8,7
ES4 04 44	1296	98	1 1/4"	11,2

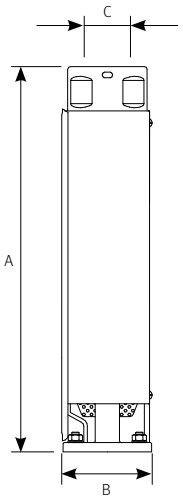


ES4 Submersible

Dimensions and weights

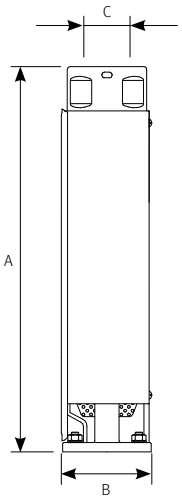
ES4 06

Model	A	B	C	Kg
ES4 06 07	390	98	2”	3.7
ES4 06 10	483	98	2”	4.6
ES4 06 14	607	98	2”	5.7
ES4 06 20	831	98	2”	7.5
ES4 06 27	1048	98	2”	9.6
ES4 06 36	1318	98	2”	12.2
ES4 06 49	1802	98	2”	15.9



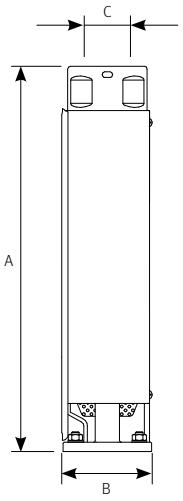
ES4 08

Model	A	B	C	Kg
ES4 08 06	356	98	2”	3,4
ES4 08 08	418	98	2”	4,0
ES4 08 13	573	98	2”	5,5
ES4 08 17	697	98	2”	6,6
ES4 08 23	921	98	2”	8,4
ES4 08 32	1238	98	2”	11,0



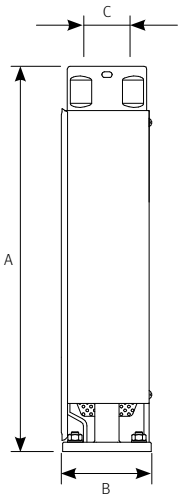
ES4 12

Model	A	B	C	Kg
ES4 12 07	534	98	2”	5,3
ES4 12 10	690	98	2”	6,7
ES4 12 14	989	98	2”	8,6
ES4 12 19	1195	98	2”	11,0
ES4 12 26	1559	98	2”	14,3



ES4 16

Model	A	B	C	Kg
ES4 16 08	676	98	2”	6,3
ES4 16 11	880	98	2”	8,1
ES4 16 13	1013	98	2”	9,3
ES4 16 15	1149	98	2”	10,5
ES4 16 20	1489	98	2”	13,5



Saturn6 Submersible

Submersible pump for well of 6”

Applications
Drawing water from 6” wells for irrigation and pressure boosting.

Limitations
Maximum liquid temperature: 30° C.

Equipments
Non return valve built-in.

Materials
Outer casing, motor casing and filter in stainless steel AISI 304.
Impellers and diffusers in glass loaded Noryl®.

Hydraulic performance table and prices

Model	P2		Motor type	Ø Man	l/min	20	50	100	133	170	200	250	280	Code	Price €	Discount cat.
	[kW]	[HP]			m³/h	1,2	3,0	6,0	8,0	10,2	12	15	16,8			
Saturn6 80 5	2,2	3	4”	3”		80	79	71	65	58	45	25	10	Saturn6805	**564,00**	**E1**
Saturn6 80 6	3	4	4”	3”		98	96	85	80	72	58	32	12	Saturn6806	**597,00**	**E1**
Saturn6 80 7	3	4	4”	3”		113	110	100	90	80	65	40	14	Saturn6807	**635,00**	**E1**
Saturn6 80 8	4	5,5	4”	3”		127	123	113	105	90	75	45	17	Saturn6808	**674,00**	**E1**
Saturn6 80 9	4	5,5	4”	3”		142	138	127	115	100	85	50	20	Saturn6809	**710,00**	**E1**
Saturn6 80 12	5,5	7,5	6”	3”		193	185	173	158	136	115	63	25	Saturn68012	**837,00**	**E1**
Saturn6 80 16	7,5	10	6”	3”	mwc	256	249	228	206	179	149	85	36	Saturn68016	**1.053,00**	**E1**
Saturn6 80 18	9,3	12,5	6”	3”		287	280	258	232	200	170	100	38	Saturn68018	**1.129,00**	**E1**
Saturn6 80 21	9,3	12,5	6”	3”		338	323	300	271	237	200	115	45	Saturn68021	**1.319,00**	**E1**
Saturn6 80 24	11	15	6”	3”		382	370	341	310	270	224	130	53	Saturn68024	**1.446,00**	**E1**
Saturn6 80 28	15	20	6”	3”		447	433	400	363	317	260	150	61	Saturn68028	**1.623,00**	**E1**
Saturn6 80 30	15	20	6”	3”		480	463	430	390	338	280	160	65	Saturn68030	**2.219,00**	**E1**
Saturn6 80 40	18,5	25	6”	3”		640	620	570	515	447	380	220	90	Saturn68040	**2.532,00**	**E1**
Saturn6 80 48	22	30	6”	3”		768	747	683	619	537	448	256	107	Saturn68048	**2.839,00**	**E1**

Model	P2		Motor type	Ø Man	l/min	20	50	100	133	170	200	250	280	Code	Price €	Discount cat.
	[kW]	[HP]			m³/h	1,2	3,0	6,0	8,0	10,2	12	15	16,8			
Saturn6 120 5	3	4	4”	3”		80	78	75	73	67	60	38	12	Saturn61205	**564,00**	**E1**
Saturn6 120 6	4	5,5	4”	3”		95	92	90	85	78	70	45	15	Saturn61206	**597,00**	**E1**
Saturn6 120 7	5,5	7,5	6”	3”		110	106	105	100	92	83	52	18	Saturn61207	**635,00**	**E1**
Saturn6 120 8	5,5	7,5	6”	3”		126	121	119	115	106	96	60	22	Saturn61208	**674,00**	**E1**
Saturn6 120 9	5,5	7,5	6”	3”		142	139	135	130	120	108	67	27	Saturn61209	**710,00**	**E1**
Saturn6 120 12	7,5	10	6”	3”		188	182	178	170	158	142	89	33	Saturn612012	**837,00**	**E1**
Saturn6 120 15	9,3	12,5	6”	3”	mwc	235	230	222	215	199	180	110	40	Saturn612015	**1.002,00**	**E1**
Saturn6 120 18	11	15	6”	3”		282	277	270	260	240	215	132	48	Saturn612018	**1.129,00**	**E1**
Saturn6 120 21	15	20	6”	3”		328	322	311	300	278	250	157	58	Saturn612021	**1.319,00**	**E1**
Saturn6 120 24	15	20	6”	3”		376	370	359	344	319	288	180	65	Saturn612024	**1.446,00**	**E1**
Saturn6 120 30	18,5	25	6”	3”		471	461	448	430	398	360	220	80	Saturn612030	**1.736,00**	**E1**
Saturn6 120 35	22	30	6”	3”		550	540	520	500	464	420	240	95	Saturn612035	**2.337,00**	**E1**
Saturn6 120 40	26	35	6”	3”		627	617	605	585	538	480	295	105	Saturn612040	**2.532,00**	**E1**

Saturn6 Submersible

Hydraulic performance table and prices

Model	P2		Motor type	Ø Man	l/min	50	100	200	300	400	450	500	600	Code	Price €	Discount cat.
	[kW]	[HP]			m³/h	3,0	3,0	12	18	24	27	30	36			
Saturn6 240 2	1,5	2	4"	3"		26,3	25,5	23,5	20	16,5	13	10,5	2	Saturn62402	**496,00**	**E1**
Saturn6 240 3A	2,2	3	4"	3"		39,5	38,5	35	30	25	20	16	3	Saturn62403A	**546,00**	**E1**
Saturn6 240 3	3	4	4"	3"		44	42	40	36	30	23	20	12	Saturn62403	**592,00**	**E1**
Saturn6 240 4	4	5,5	4"	3"		61	59	55	50	40	35	30	15	Saturn62404	**592,00**	**E1**
Saturn6 240 6	5,5	7,5	6"	3"		91	88	81	75	60	52	43	22	Saturn62406	**698,00**	**E1**
Saturn6 240 8	7,5	10	6"	3"		121	117	107	97	80	70	60	30	Saturn62408	**800,00**	**E1**
Saturn6 240 10	9,3	12,5	6"	3"		150	145	135	120	100	88	76	40	Saturn624010	**914,00**	**E1**
Saturn6 240 12	11	15	6"	3"	mwc	180	174	160	144	120	108	90	47	Saturn624012	**1027,00**	**E1**
Saturn6 240 14	15	20	6"	3"		208	201	188	164	140	123	103	54	Saturn624014	**1129,00**	**E1**
Saturn6 240 16	15	20	6"	3"		239	231	216	195	160	140	119	60	Saturn624016	**1242,00**	**E1**
Saturn6 240 20	18,5	25	6"	3"		298	287	270	240	200	175	147	78	Saturn624020	**1572,00**	**E1**
Saturn6 240 24	22	30	6"	3"		358	345	322	290	240	210	178	95	Saturn624024	**1750,00**	**E1**
Saturn6 240 28	26	35	6"	3"		417	404	379	337	280	245	205	109	Saturn624028	**2600,00**	**E1**
Saturn6 240 32	30	40	6"	3"		478	462	431	382	320	283	240	120	Saturn624032	**2804,00**	**E1**
Saturn6 240 40	37	50	6"	3"		598	580	539	488	400	345	294	153	Saturn624040	**3276,00**	**E1**
Saturn6 240 46	45	60	6"	3"		688	667	620	561	460	397	338	176	Saturn624046	**3545,00**	**E1**

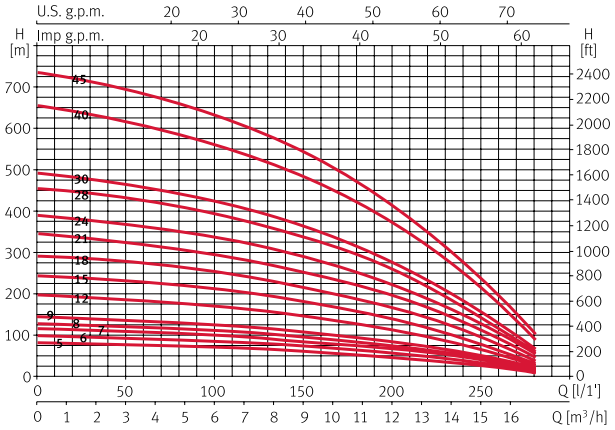
Model	P2		Motor type	Ø Man	l/min	50	150	300	450	550	650	750	800	Code	Price €	Discount cat.
	[kW]	[HP]			m³/h	3,0	9,0	18	27	33	39	45	48			
Saturn6 360 2	3	4	4"	3"		30	29,5	29	25	20	17	11	8	Saturn63602	**483,00**	**E1**
Saturn6 360 3	4	5,5	4"	3"		48	47	43	38	32	26	17	10	Saturn63603	**546,00**	**E1**
Saturn6 360 4	5,5	7,5	6"	3"		62	60,5	56	50	43	36	22	15	Saturn63604	**610,00**	**E1**
Saturn6 360 5	7,5	10	6"	3"		80	78	70	62	55	46	29	20	Saturn63605	**660,00**	**E1**
Saturn6 360 6	9,3	12,5	6"	3"		95	92	84	75	66	54	34	23	Saturn63606	**710,00**	**E1**
Saturn6 360 8	11	15	6"	3"		126	122	113	100	88	70	45	29	Saturn63608	**825,00**	**E1**
Saturn6 360 9	15	20	6"	3"		141	137	129	112	100	80	50	33	Saturn63609	**883,00**	**E1**
Saturn6 360 10	15	20	6"	3"	mwc	158	153	142	125	110	88	56	37	Saturn636010	**940,00**	**E1**
Saturn6 360 13	18,5	25	6"	3"		205	200	186	163	141	112	72	46	Saturn636013	**1101,00**	**E1**
Saturn6 360 16	22	30	6"	3"		252	246	229	200	174	138	89	57	Saturn636016	**1254,00**	**E1**
Saturn6 360 19	26	35	6"	3"		299	292	271	238	206	164	105	68	Saturn636019	**1514,00**	**E1**
Saturn6 360 22	30	40	6"	3"		347	338	314	275	239	189	122	79	Saturn636022	**1652,00**	**E1**
Saturn6 360 27	37	50	6"	3"		425	415	386	338	293	232	149	96	Saturn636027	**2614,00**	**E1**
Saturn6 360 32	45	60	6"	3"		504	491	457	400	347	275	177	114	Saturn636032	**2934,00**	**E1**

Model	P2		Motor type	Ø Man	l/min	100	300	500	700	833	900	1050		Code	Price €	Discount cat.
	[kW]	[HP]			m³/h	6,0	18	30	42	50	54	63	66			
Saturn6 480 2A	2,2	3	4"	3"		20	17,8	14,3	10	7	5	1		Saturn64802A	**490,00**	**E1**
Saturn6 480 2	4	5,5	4"	3"		25	23	20	17	13	11	8	5	Saturn64802	**490,00**	**E1**
Saturn6 480 3	5,5	7,5	6"	3"		39	36	31	26	19	15	10	7	Saturn64803	**546,00**	**E1**
Saturn6 480 4	7,5	10	6"	3"		50	47	42	36	27	22	12	9	Saturn64804	**610,00**	**E1**
Saturn6 480 5	9,3	12,5	6"	3"		64	60	53	43	34	29	15	11	Saturn64805	**660,00**	**E1**
Saturn6 480 6	11	15	6"	3"		77	71	64	50	40	35	19	13	Saturn64806	**710,00**	**E1**
Saturn6 480 8	15	20	6"	3"	mwc	102	95	85	68	53	45	23	16	Saturn64808	**825,00**	**E1**
Saturn6 480 9	15	20	6"	3"		115	107	95	77	60	51	27	18	Saturn64809	**883,00**	**E1**
Saturn6 480 12	22	30	6"	3"		152	143	127	102	81	69	37	25	Saturn648012	**1162,00**	**E1**
Saturn6 480 17	26	35	6"	3"		218	201	173	143	114	97	50	34	Saturn648017	**1261,00**	**E1**
Saturn6 480 19	30	40	6"	3"		243	224	193	160	127	108	56	38	Saturn648019	**1550,00**	**E1**
Saturn6 480 24	37	50	6"	3"		307	283	244	203	160	136	71	48	Saturn648024	**1881,00**	**E1**
Saturn6 480 28	45	60	6"	3"		358	330	284	236	187	159	83	56	Saturn648028	**2624,00**	**E1**

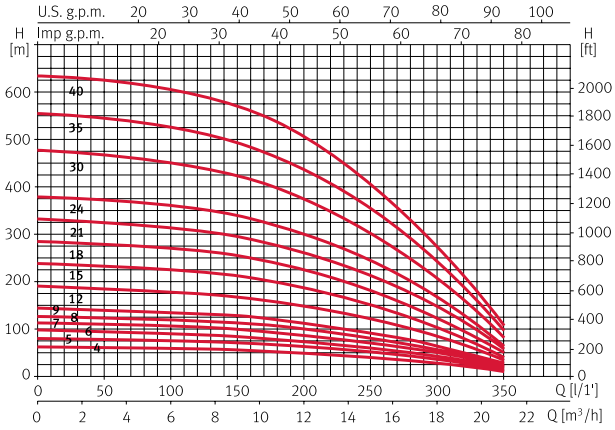
Saturn6 Submersible

Performance curves at 2900 rpm

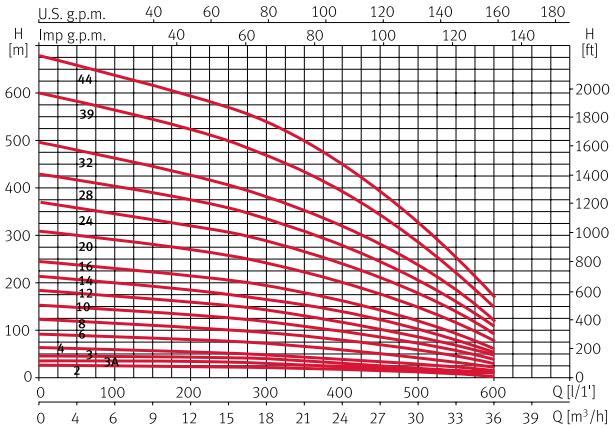
Saturn6 80



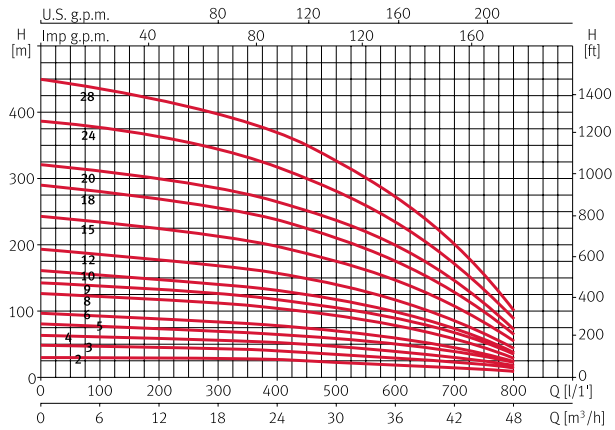
Saturn6 120



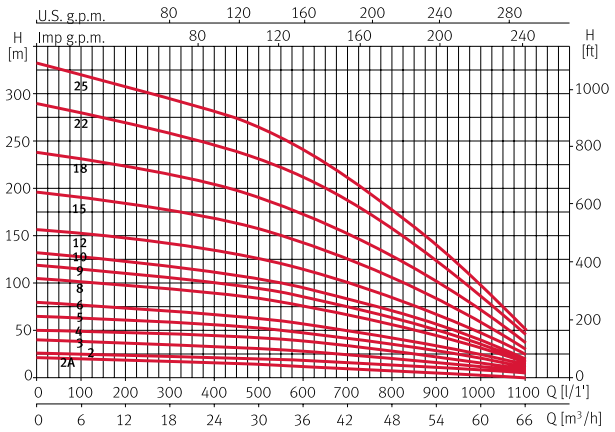
Saturn6 240



Saturn6 360



Saturn6 480



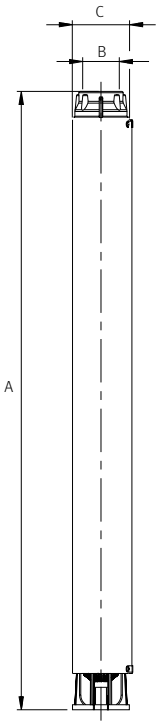
Saturn6 Submersible

Dimensions and weights

Model	A	B	C	Kg
Saturn6 80 5	478	135	3”	8,5
Saturn6 80 6	511	135	3”	9
Saturn6 80 7	549	135	3”	9,5
Saturn6 80 8	587	135	3”	10
Saturn6 80 9	625	135	3”	11
Saturn6 80 12	738	135	3”	13,5
Saturn6 80 16	852	135	3”	15
Saturn6 80 18	966	135	3”	17
Saturn6 80 21	1079	135	3”	19,5
Saturn6 80 24	1193	135	3”	21
Saturn6 80 28	1397	135	3”	23,5
Saturn6 80 30	1604	135	3”	28
Saturn6 80 40	1984	135	3”	33
Saturn6 80 48	2174	135	3”	37
Saturn6 120 5	435	135	3”	8,5
Saturn6 120 6	478	135	3”	9
Saturn6 120 7	511	135	3”	9,5
Saturn6 120 8	549	135	3”	10
Saturn6 120 9	587	135	3”	11
Saturn6 120 12	625	135	3”	13,5
Saturn6 120 15	738	135	3”	15
Saturn6 120 18	852	135	3”	17
Saturn6 120 21	966	135	3”	19
Saturn6 120 24	1079	135	3”	21
Saturn6 120 30	1193	135	3”	25
Saturn6 120 35				
Saturn6 120 40	1474	135	3”	35
Saturn6 240 2	1794	135	3”	7,5
Saturn6 240 3A	1984	135	3”	8
Saturn6 240 3	397	135	3”	8
Saturn6 240 4	454	135	3”	9
Saturn6 240 6	454	135	3”	10,5

Model	A	B	C	Kg
Saturn6 240 8	738	135	3”	13
Saturn6 240 10	852	135	3”	14,5
Saturn6 240 12	966	135	3”	16
Saturn6 240 14	1079	135	3”	17,5
Saturn6 240 16	1193	135	3”	19
Saturn6 240 20	1474	135	3”	24
Saturn6 240 24	1700	135	3”	27,5
Saturn6 240 28	2060	135	3”	34
Saturn6 240 32	2288	135	3”	38
Saturn6 240 40	2791	135	3”	45
Saturn6 240 46	3076	135	3”	51
Saturn6 360 2	403	135	3”	6,5
Saturn6 360 3	463	135	3”	7,5
Saturn6 360 4	522	135	3”	8,5
Saturn6 360 5	582	135	3”	9,5
Saturn6 360 6	642	135	3”	10,5
Saturn6 360 8	762	135	3”	12
Saturn6 360 9	822	135	3”	13
Saturn6 360 10	882	135	3”	14
Saturn6 360 13	1002	135	3”	16
Saturn6 360 16	1182	135	3”	19
Saturn6 360 19	1414	135	3”	22
Saturn6 360 22	1534	135	3”	25
Saturn6 360 27	1904	135	3”	30
Saturn6 360 32	2144	135	3”	35
Saturn6 480 2A	403	135	3”	6,5
Saturn6 480 2	403	135	3”	6,5
Saturn6 480 3	463	135	3”	7,5
Saturn6 480 4	522	135	3”	8,5
Saturn6 480 5	582	135	3”	9,5
Saturn6 480 6	642	135	3”	10,5
Saturn6 480 8	762	135	3”	12

Model	A	B	C	Kg
Saturn6 480 9	822	135	3”	13
Saturn6 480 12	1002	135	3”	16
Saturn6 480 17	1182	135	3”	19
Saturn6 480 19	1414	135	3”	22
Saturn6 480 24	1784	135	3”	28
Saturn6 480 28	1964	135	3”	32



04 Submersible motors

Submersible motor 4” in oil bath

Applications
Motors in FDA-approved non-toxic mineral oil bath suitable for installation with 4” and 6” hydraulic submersible pumps with 4” NEMA standard connection.
Removable cable connector.

Limitations
Vertical or horizontal installation.
Maximum liquid temperature: 35° C.
Maximum number of starts: 30 per hour.
Maximum immersion: 200 m.

Materials
AISI 304 stainless casing and base.
Upper support in nickel-plated cast iron, protected by a stainless-steel cover.
Carbon material shaft in the impeller area with external part in contact with water made from AISI 304 stainless steel (DUPLEX for 4kW and higher motors).
Cable made from material approved for use in contact with drinking water.

ESPA Eco-Efficient Engineering
ErP READY

Control panel and accessories for submersible pumps, see page 162 and 163.

Technical features and prices

Model		P2 [kW]	P2 [HP]	η %	μF	Cos φ	In [A]	I_{arr} [A]	Thrust load [N]	Cable Nc x sec. (mm²)	Cable L [m]	Code	Price €	Discount cat.
04 050 M	230 V Monophase	0,37	0,5	51	20	0,87	3,6	12	2000	4 x 1,5	1,7	04050M	**203,00**	E2
04 075 M		0,55	0,75	56	25	0,88	4,7	16,5	1500	4 x 1,5	1,7	04075M	**191,00**	E2
04 100 M		0,75	1	62	35	0,9	5,9	18,9	1500	4 x 1,5	1,7	04100M	**200,00**	E2
04 150 M		1,1	1,5	65	40	0,91	8,3	26,2	2500	4 x 1,5	1,7	04150M	**229,00**	E2
04 200 M		1,5	2	66	60	0,93	10,7	35	2500	4 x 1,5	1,7	04200M	**255,00**	E2
04 300 M		2,2	3	67	80	0,93	15,2	47	2500	4 x 1,5	1,7	04300M	**349,00**	E2
04 050	400 V Triphase	0,37	0,5	55		0,54	1,8	5,8	2000	4 x 1,5	1,7	04050	**194,00**	E2
04 075		0,55	0,75	58		0,65	2	8	1500	4 x 1,5	1,7	04075	**203,00**	E2
04 100		0,75	1	61		0,77	2,5	9,4	1500	4 x 1,5	1,7	04100	**196,00**	E2
04 150		1,1	1,5	68		0,69	3,4	15,5	2500	4 x 1,5	1,7	04150	**210,00**	E2
04 200		1,5	2	72		0,63	4,8	18	2500	4 x 1,5	1,7	04200	**245,00**	E2
04 300		2,2	3	74		0,69	6,1	34,2	3000	4 x 1,5	1,7	04300	**306,00**	E2
04 400		3	4	77		0,84	7,1	39,5	5000	4 x 2	2,7	04400	**438,00**	E2
04 550		4	5,5	78		0,83	9,2	49,5	5000	4 x 2	2,7	04550	**620,00**	E2
04 750		5,5	7,5	79		0,86	11,7	64	5000	4 x 2	2,7	04750	**692,00**	E2
04 1000		7,5	10	81		0,81	16,4	88	5000	4 x 2	2,7	041000	**877,00**	E2

Accessories

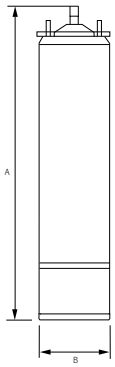
Cable with connector	Code	Price €	Discount cat.
Length 1,7 m	CA170	**20,50**	E1
Length 2,7 m	CA270	**28,00**	E1

Other lengths possible on request

Model	Power [kW]	Power [HP]	Maximum cable length in metres	Cable cross section (mm²) 4 x 1,5	4 x 2,5	4 x 4	4 x 6	4 x 10
04 050 M	0,37	0,5		120	200	320	480	810
04 075 M	0,55	0,75		80	130	220	320	550
04 100 M	0,75	1		60	100	170	250	430
04 150 M	1,1	1,5		40	70	120	180	300
04 200 M	1,5	2		30	60	90	130	230
04 300 M	2,2	3		20	40	60	90	150
04 050	0,37	0,5		810	1350	2160	3240	5500
04 075	0,55	0,75		550	920	1480	2230	3780
04 100	0,75	1		410	680	1090	1640	2780
04 150	1,1	1,5		300	500	810	1210	2060
04 200	1,5	2		220	370	590	880	1500
04 300	2,2	3		150	250	400	600	1030
04 400	3	4		110	190	310	460	790
04 550	4	5,5		80	140	230	340	590
04 750	5,5	7,5		60	110	170	260	440
04 1000	7,5	10		32	53	90	130	210

Dimensions and weights

Model	A mm 400V/230V	B mm	Kg
04 050	311	94	6,5
04 075	331	94	7,2
04 100	356	94	8,5
04 150	371 / 386	94	9,4 / 10,2
04 200	386 / 436	94	10,2 / 11,7
04 300	436 / 481	94	11,7 / 14,9
04 400	505	94	15
04 550	610	94	20
04 750	699	94	24,5
04 1000	799	94	29



06 Submersible motors

Submersible motor 6” in oil bath

Applications
For installation with 6” submersible pumps, equipped with Nema standard connection system.
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.

Limitations
Vertical installation.
Maximum liquid temperature: 30° C.
Maximum number of starts: 20 per hour.
Maximum immersion: 350 m.
Voltage tolerance: from +6% to -10%.

Materials
AISI 304 stainless steel external housing.
End of shaft in AISI 304 stainless steel.
Lubricated axial ball bearings.
Cast iron upper support with two coats of paint.
PPO lower support protection.
Non-toxic FDA-approved lubricant.

Technical features and prices

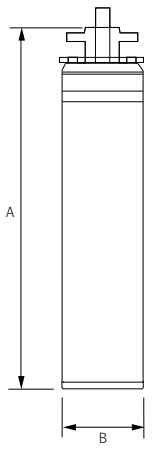
Model		P2 [kW]	P2 [HP]	η %	Cos φ	I [A]	I_{start} [A]	Thrust load [N]	Cable Nc x sec. (mm²)	Cable L [m]	Code	Price €	Discount cat.
06 550	400V Adv. Direct	4	5,5	76	0,81	9,5		10000	4 x 4	4	06550	**1.076,00**	**E1**
06 750		5,5	7,5	79	0,79	13,5		10000	4 x 4	4	06750	**1.112,00**	**E1**
06 1000		7,5	10	79	0,82	16,8		10000	4 x 4	4	061000	**1.167,00**	**E1**
06 1250		9,2	12,5	81	0,80	20,9		10000	4 x 4	4	061250	**1.245,00**	**E1**
06 1500		11	15	85	0,75	25,3		10000	4 x 4	4	061500	**1.285,00**	**E1**
06 2000		15	20	84	0,79	33,4		10000	4 x 4	4	062000	**1.528,00**	**E1**
06 2500		18,5	25	85	0,79	40,7		10000	4 x 4	4	062500	**1.821,00**	**E1**
06 3000		22	30	85	0,71	53,3		20000	4 x 4	4	063000	**2.159,00**	**E1**
06 4000		30	40	84	0,85	61,9		20000	4 x 8	4	064000	**2.476,00**	**E1**
06 550 SD	400 Avv. ΔY	4	5,5	76	0,81	19,5		10000	4 x 4	4	06550SD	**1.161,00**	**E1**
06 750 SD		5,5	7,5	79	0,79	13,5		10000	4 x 4	4	06750SD	**1.196,00**	**E1**
06 1000 SD		7,5	10	79	0,82	16,8		10000	4 x 4	4	061000SD	**1.251,00**	**E1**
06 1250 SD		9,2	12,5	81	0,80	20,9		10000	4 x 4	4	061250SD	**1.329,00**	**E1**
06 1500 SD		11	15	85	0,75	25,3		10000	4 x 4	4	061500SD	**1.370,00**	**E1**
06 2000 SD		15	20	84	0,79	33,4		10000	4 x 4	4	062000SD	**1.612,00**	**E1**
06 2500 SD		18,5	25	85	0,79	40,7		10000	4 x 4	4	062500SD	**1.905,00**	**E1**
06 3000 SD		22	30	85	0,71	53,3		20000	4 x 4	4	063000SD	**2.244,00**	**E1**
06 4000 SD		30	40	84	0,85	61,9		20000	4 x 8	4	064000SD	**2.561,00**	**E1**

Model	Power [kW]	Power [HP]	Maximum cable length in metres	Cable cross section (mm²) 4 x 1,5	4 x 2,5	4 x 4	4 x 6	4 x 10	4 x 16	4 x 25
06 550	4	5,5		85	140	225	335			
06 750	5,5	7,5		65	110	175	260			
06 1000	7,5	10		45	80	125	190	320		
06 1250	9,2	12,5			65	105	160	265		
06 1500	11	15			55	85	130	220	355	
06 2000	15	20				65	100	170	270	
06 2500	18,5	25					85	140	225	350
06 3000	22	30					70	115	185	285
06 4000	30	40						85	135	215

* Direct Start

Dimensions and weights

Model	A	B	Kg
06 550	600	139	39,5
06 750	631	139	43,2
06 1000	660	139	45,5
06 1250	685	139	49
06 1500	730	139	53
06 2000	758	139	59
06 2500	860	139	66,5
06 3000	920	139	72,5
06 4000	1050	139	85



A4 Submersible motors

4” submersible motors

Applications
4” electric motors for installation with submersible pumps, equipped with Nema standard connection system.
Motors manufactured from corrosion-resistant materials.
Stators hermetically sealed in resin.
Axial and radial bearing lubricated in water. Motors filled with FES93 fluid, non-contaminating and 100% tested IP 68 grade protection. Class B insulation.
NEMA 4” couplings.
Extractable connecting cable.

Materials
Internal and external casing AISI 304 stainless steel.
AISI 304 stainless steel shaft.
Graphite double radial bearings.
AISI 304 stainless steel axial bearing.
Upper and lower supports in stainless steel.

Limitations
Horizontal or vertical capsuled fitting.
Maximum liquid temperature 30 °C.
Starts: 20 per hour.
Voltage tolerance: from +6% to -10%.

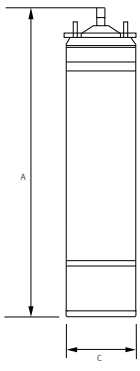
Technical features and prices
(cables and connectors inclusive)

Model		P2		µF	Thrust pload (N)	A	Cable l (m)	1~230 V (Model M)		
		[kW]	[HP]					Code	Price €	Discount cat.
A4 050 M	230 V Monophase	0,37	0,5	20	2000	3,5	1,5	A4050M	**284,00**	**E1**
A4 075 M		0,55	0,75	25	2000	4,8	1,5	A4075M	**305,00**	**E1**
A4 100 M		0,75	1	35	2000	5,7	1,5	A4100M	**327,00**	**E1**
A4 150 M		1,1	1,5	40	2000	8,2	1,5	A4150M	**371,00**	**E1**
A4 200 M		1,5	2	50	3000	10,5	1,5	A4200M	**459,00**	**E1**
A4 300 M		2,2	3	70	4000	15,2	2,5	A4300M	**576,00**	**E1**
A4 050	400 V Triphase	0,37	0,5		2000	1,4	1,5	A4050	**278,00**	**E1**
A4 075		0,55	0,75		2000	1,7	1,5	A4075	**295,00**	**E1**
A4 100		0,75	1		2000	2,1	1,5	A4100	**314,00**	**E1**
A4 150		1,1	1,5		2000	3,2	1,5	A4150	**361,00**	**E1**
A4 200		1,5	2		3000	4,1	1,5	A4200	**410,00**	**E1**
A4 300		2,2	3		3000	5,9	2,5	A4300	**503,00**	**E1**
A4 400		3	4		6500	7,9	2,5	A4400	**724,00**	**E1**
A4 550		4	5,5		6500	10,1	2,5	A4550	**818,00**	**E1**
A4 750		5,5	7,5		6500	13,9	2,5	A4750	**950,00**	**E1**
A4 1000		7,5	10		6500	16,9	2,5	A41000	**1358,00**	**E1**

Tipo Motor	Power			Cable cross section (mm²)				
	kW	Hp		4 x 1,5	4 x 2,5	4 x 4	4 x 6	4 x 10
A4 050 M	0,37	0,5	Maximum cable length in metres	120	200	320	480	810
A4 075 M	0,55	0,75		80	130	220	320	550
A4 100 M	0,75	1		60	100	170	250	430
A4 150 M	1,1	1,5		40	70	120	180	300
A4 200 M	1,5	2		30	60	90	130	230
A4 300 M	2,0	3		20	40	60	90	150
A4 050	0,37	0,5		810	1350	2160	3240	5500
A4 075	0,55	0,75		550	920	1480	2230	3780
A4 100	0,75	1		410	680	1090	1640	2780
A4 150	1,1	1,5		300	500	810	1210	2060
A4 200	1,5	2		220	370	590	880	1500
A4 300	2,2	3		150	250	400	600	1030
A4 400	3	4		110	190	310	460	790
A4 550	4	5		80	140	230	340	590
A4 750	5,5	7,5		60	110	170	260	440
A4 1000	7,5	10		32	53	90	130	210

Dimensions in mm

Model	A (230V)	A (400V)	C	Kg
A4 050	228,2	214,2	95,3	9
A4 075	253,2	228,2	95,3	10
A4 100	282,6	248,2	95,3	11,3
A4 150	330,5	282,6	95,3	13,9
A4 200	306,6	306,6	95,3	14,8
A4 300	338,6	338,6	95,3	18,7
A4 400		477,2	95,3	18,9
A4 550		543,2	95,3	21,8
A4 750		652,5	95,3	28,7
A4 1000		730,5	95,3	32,7



A6F Submersible motors

Franklin electric 4” motors

Applications
6” motors with resin-coated stator for mounting with 6” submersible pumps equipped with a NEMA coupling system.

Materials
Stainless steel inner and outer casing AISI 304.
Shaft stainless steel AISI 420.
Graphite double radial bearings.
Axial bearing stainless steel AISI 304.
Stators hermetically sealed in resin.
Water lubricated axial and radial bearings. Motors pre-filled with noncontaminating
FES91/92 liquid and 100% tested.
“Sandfighter” motor with silicon carbide seal.

Motor
Asynchronous, two poles.
IP 68 Protection.
Class F insulation.
Continuous service.

Limitations
Maximum operating temperature: 30 °C up to 30 kW, 50 °C for 37 and 45 kW.
Maximum number of starts per hour: 20.
Voltage tolerance: from +6% to - 10%.
Vertical mounting. Horizontal mounting permitted only with 6” hydraulics ensuring sufficient axial load.

Technical features and prices

Model		P2		η %	Cos φ	I [A]	Istart [A]	Thrust load [N]	Cable (included)		1~230 V (Model M)		
		[kW]	[HP]						Nc x sec. (mm²)	I(m)	Code	Price €	Discount cat.
A6F 550	230 V Monophase	4	5,5	78	0,82	9,3	43	6500	4 x 4	4	A6F550	**1.784,00**	**E1**
A6F 750		5,5	7,5	79	0,82	12,5	64	6500	4 x 4	4	A6F750	**1.843,00**	**E1**
A6F 1000		7,5	10	79	0,86	16,0	83	15500	4 x 4	4	A6F1000	**1.942,00**	**E1**
A6F 1250		9,2	12,5	81	0,80	20,7	112	15500	4 x 4	4	A6F1250	**2.081,00**	**E1**
A6F 1500		11	15	81	0,85	23,3	129	15500	4 x 4	4	A6F1500	**2.185,00**	**E1**
A6F 2000		15	20	81	0,85	31,3	169	15500	4 x 4	4	A6F2000	**2.553,00**	**E1**
A6F 2500		18,5	25	82	0,85	38,5	231	15500	4 x 4	4	A6F2500	**2.772,00**	**E1**
A6F 3000		22	30	83	0,86	45,3	268	15500	4 x 4	4	A6F3000	**3.116,00**	**E1**
A6F 4000		30	40	83	0,84	63,5	393	27500	4 x 4	4	A6F4000	**4.052,00**	**E1**
A6F 550 SD	400 V Triphase	4	5,5	78	0,82	9,3	43	6500	4 x 4	4	A6F550SD	**1.923,00**	**E1**
A6F 750 SD		5,5	7,5	79	0,82	12,5	64	6500	4 x 4	4	A6F750SD	**1.983,00**	**E1**
A6F 1000 SD		7,5	10	79	0,86	16,0	83	15500	4 x 4	4	A6F1000SD	**2.082,00**	**E1**
A6F 1250 SD		9,2	12,5	81	0,80	20,7	112	15500	4 x 4	4	A6F1250SD	**2.220,00**	**E1**
A6F 1500 SD		11	15	81	0,85	23,3	129	15500	4 x 4	4	A6F1500SD	**2.325,00**	**E1**
A6F 2000 SD		15	20	81	0,85	31,3	169	15500	4 x 4	4	A6F2000SD	**2.692,00**	**E1**
A6F 2500 SD		18,5	25	82	0,85	38,5	231	15500	4 x 4	4	A6F2500SD	**2.912,00**	**E1**
A6F 3000 SD		22	30	83	0,86	45,3	268	15500	4 x 4	4	A6F3000SD	**3.255,00**	**E1**
A6F 4000 SD		30	40	83	0,84	63,5	393	27500	4 x 4	4	A6F4000SD	**4.140,00**	**E1**

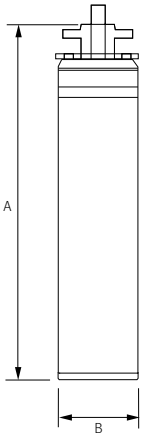
Cable with connector	Code	Price €	Discount cat.
Cable 4x4 lungh.4 m	310125004	**137,00**	**E1**
Cable 4x8,4 lungh. 4 m	310145004	**188,00**	**E1**

A6F 5000: quotations only available on request

Tipo Motor	Power			Cable cross section (mm²)						
	kW	Hp		4 x 1,5	4 x 2,5	4 x 4	4 x 6	4 x 10	4 x 16	4 x 25
A6F 550	4	5,5	Maximum cable length in metres	85	140	225	335			
A6F 750	5,5	7,5		65	110	175	260			
A6F 1000	7,5	10		45	80	125	190	320		
A6F 1250	9,2	12,5			65	105	160	265		
A6F 1500	11	15			55	85	130	220	355	
A6F 2000	15	20				65	100	170	270	
A6F 2500	18,5	25					85	140	225	350
A6F 3000	22	30					70	115	185	285
A6F 4000	30	40						85	135	215
A6F 5000	37	50							110	170

Dimensions in mm

Model	A	B	Kg
A6F 550	600	139	39,5
A6F 750	631	139	43,2
A6F 1000	660	139	45,5
A6F 1250	685	139	49
A6F 1500	730	139	53
A6F 2000	758	139	59
A6F 2500	860	139	66,5
A6F 3000	920	139	72,5
A6F 4000	1050	139	85



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55
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DRAINAGE

Vigila 100 Drainage

Submersible pumps for the drainage of clear water

Applications
Drainage of clear water, decorative fountains, tanks, etc.

Materials
Pump body, impellers and suction filter in technopolymer.
Motor shaft in stainless steel AISI 420.
Double lip seal and o-rings in NBR.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Forced cooling through the discharge water.

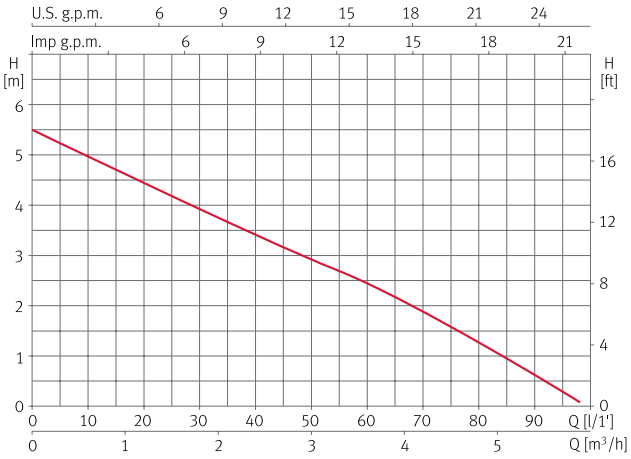
Limitations
Maximum solids handling: Ø 5 mm.

Equipments
Supplied with 10 m power cable.
Vigila 100 M A: with float switch.

Hydraulic performance table and prices

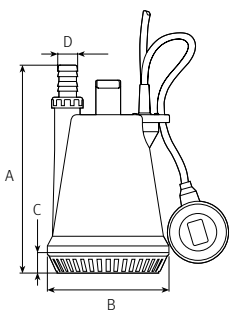
Model	I [A]	P1 [kW]	P2		c	l/min	10	20	30	40	50	60	80	95	1~230 V (Model M A)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0,6	1,2	1,8	2,4	3,0	3,6	4,8	5,7	Code	Price €	Discount cat.
Vigila 100	1.04	0,23	0,11	0,15	6	mwc	5	4,3	3,7	3,4	3,0	2,5	1,2	0,3	97806	**173,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
Vigila 100	272	159	26,5	1"/25	3,8



Vigila 200/350/500 Drainage

Submersible pumps for the drainage of clear water

Applications
Emptying of drains, residential sumps, rain water tanks, etc.
Emergency emptying of flooded garages or basements.
Water transfer from tanks and cisterns.

Materials
Pump body, impellers and suction filter in technopolymer.
Double lip seal and o-rings in NBR.
Vigila M H A: internal metal parts in stainless steel AISI 316.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Built-in thermal protection and capacitor.

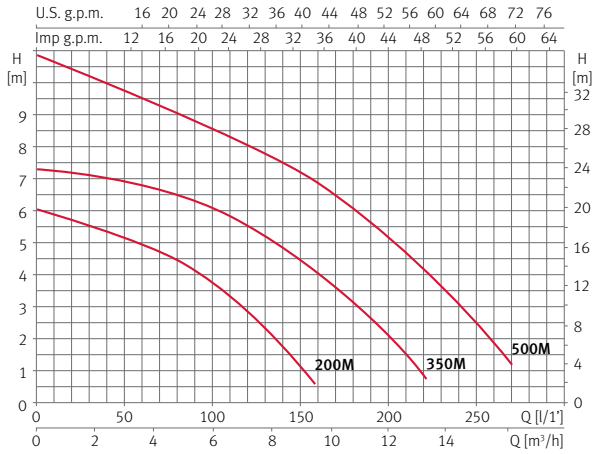
Limitations
Maximum solids handling: Ø 10 mm.

Equipments
Supplied with 10 m power cable.
Vigila M A: with float switch.

Hydraulic performance table and prices

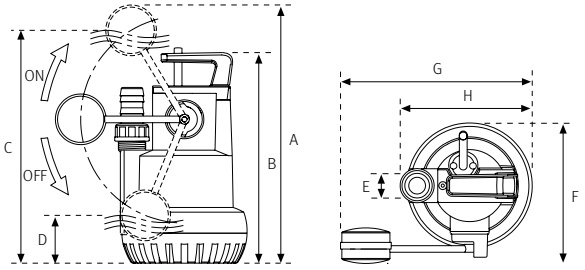
Model	I [A]	P1 [kW]	P2		c	l/min	20	40	80	120	160	200	240	260	1~230 V (Model M A)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	1,2	2,4	4,8	7,2	9,6	12	14,4	15,6	Code	Price €	Discount cat.
Vigila 200	1,5	0,35	0,25	0,33	8	mwc	5,6	5,3	4,5	2,8					105776	**190,00**	**E1**
Vigila 350	2,2	0,5	0,5	0,67	10		7,2	7	6,5	5,5	4	2			105781	**227,00**	**E1**
Vigila 500	3,7	0,85	0,6	0,8	10		10,4	10	9	8	6,8	5	3	1,8	105787	**252,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	H	Kg
Vigila 200	392	319,7	353	72	30	213,5	291	201	4,5
Vigila 350	443,5	372	405	124	30	213,5	291	201	6,7
Vigila 500	443,5	372	405	124	30	213,5	291	201	7,1



Vigilex Drainage

Submersible pumps, Vortex system for sewage water

Applications
Drainage of sewage and dirty water, in domestic installations, operation in septic tanks and small purifying installations.

Materials
Pump body and pump foot in glass loaded polypropylene.
Impeller in glass-loaded polyamide.
Double lip seal in NBR.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Forced cooling through the discharge water.
Built-in thermal protector.

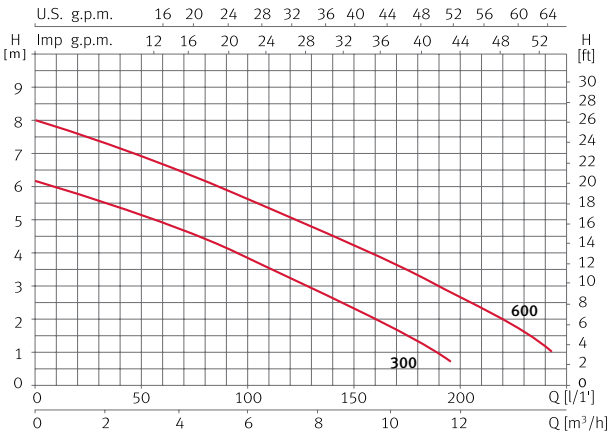
Limitations
Maximum solids handling: Ø 24 mm.
Maximum immersion: 9 m.
Maximum liquid temperature: 35 °C.

Equipments
Built-in floating rigid rod.
Removable and adjustable.
Also available without float on request.
Supplied with capacitor box.
Supplied with 10 m power cable.
Vigilex M A: with float switch.

Hydraulic performance table and prices

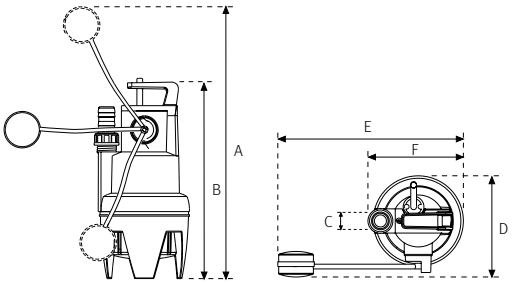
Model	I [A]	P1 [kW]	P2		c	l/min	25	50	75	100	125	150	190	240	1~230 V (Model MA)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	1,5	3,0	4,5	6,0	7,5	9,0	11,4	14,4	Code	Price €	Discount cat.
Vigilex 300	3	0,7	0,5	0,67	10	mwc	5,7	5,2	4,6	3,8	3,2	2,3	1		105796	**259,00**	**E1**
Vigilex 600	3,4	0,8	0,6	0,8	10		7,5	7	6,3	5,6	5	4,3	3	1	105800	**284,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	Kg
Vigilex 300	590	408	1¼"	213,5	39,1	201	6,6
Vigilex 600	590	408	1¼"	213,5	39,1	201	6,7



Vigila SS Drainage

Portable submersible pumps for the drainage of water without solids in suspension

Applications
Drainage of water without solids in suspension. Drainage of infiltration water, empty swimming pools, operation in decorative fountains and waterfalls.

Materials
Pump body and motor casing in stainless steel AISI 304. Impeller in elastomer plastic, reinforced with bichromate iron.
Pump direction mounting and foot in glass-loaded polypropylene. Motor shaft in stainless steel AISI 420. Mechanical seal in silicon carbide and aluminum oxide. O-rings in NBR.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Forced cooling through the discharge water.

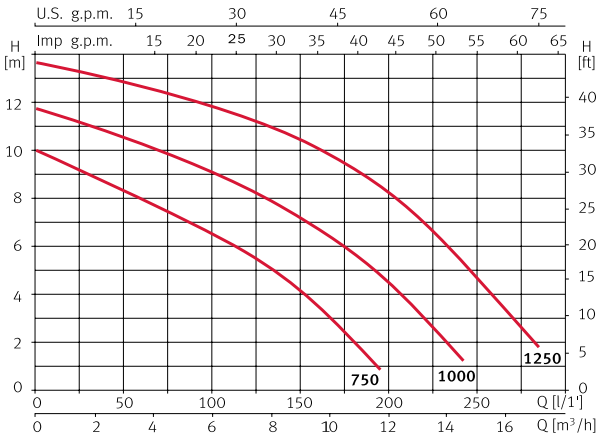
Limitations
Maximum solids handling: 8 mm.
Maximum immersion: 9 m.
Maximum liquid temperature: 35° C.

Equipments
Supplied with 10 m power cable.
Supplied with capacitor box.
Vigila SS M A: with float switch.

Hydraulic performance table and prices

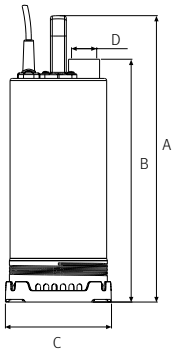
Model	I [A]	P1 [kW]	P2		[µF]	l/min	25	50	100	125	150	175	225	275	1~230 V (Model M)			1~230 V (Model MA)		
	1~ 230 V	1~	[kW]	[HP]		m³/h	1,5	3,0	6,0	7,5	9,0	10,5	13,5	16,5	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Vigila SS 750M	2,4	0,55	0,25	0,33	12	mwc	9,1	8,3	6,5	5,4	4,1	2,4			97816	**384,00**	**E1**	97818	**409,00**	**E1**
Vigila SS 1000M	3,5	0,8	0,5	0,75	12		11,1	10,5	9	8,2	7,1	6	2,6		97808	**446,00**	**E1**	97810	**473,00**	**E1**
Vigila SS 1250M	5,0	1,1	0,9	1,2	12		13,2	12,8	11,8	11,2	10,4	9,4	6,5	2,5	97812	**488,00**	**E1**	97814	**518,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
Vigila SS 750M	434	380	160	1 1/4"	8,7
Vigila SS 1000M	454	400	160	1 1/4"	9,6
Vigila SS 1250M	474	420	160	1 1/4"	11



Vigilex SS Drainage

Submersible Vortex pumps for drainage of dirty water

Applications
Submersible pumps, Vortex system, for the drainage of sewage water in domestic applications, small purifying installations, septic tanks, etc.

Materials
Discharge body, pump casing and motor casing in stainless steel AISI 304.
Pump base, volute and volute cover in glass-loaded polypropylene.
O-rings in NBR and mechanical seal in silicon carbide and aluminum oxide.
Motor shaft in stainless steel AISI 420.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Forced cooling through the discharge water.
Continuous operation.
Built-in thermal protection.

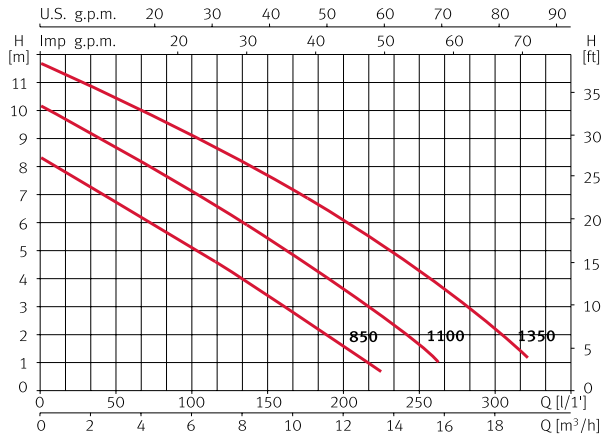
Limitations
Maximum solids handling: 35 mm.
Maximum immersion: 9 m.
Maximum liquid temperature: 40° C.

Equipments
Supplied with 10 m power cable.
Supplied with capacitor box.
Vigila SS M A: with float switch.

Hydraulic performance table and prices

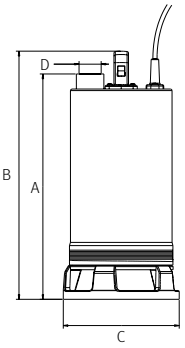
Model	I [A]	P1 [kW]	P2		[µF]	l/min	25	50	100	150	200	250	300	320	1~230 V (Model M)			1~230 V (Model MA)		
	1~ 230 V	1~	[kW]	[HP]		m³/h	1,5	3,0	6,0	9,0	12	15	18	19,2	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Vigilex SS 850M	2,8	0,6	0,37	0,5	12	mwc	7,4	6,8	5,1	3,4	1,6				97831	**393,00**	**E1**	97833	**414,00**	**E1**
Vigilex SS 1100M	3,7	0,8	0,75	1	12		9,5	8,8	7,2	5,5	3,6	1,6			97823	**496,00**	**E1**	97825	**521,00**	**E1**
Vigilex SS 1350M	4,7	1	0,9	1,2	16		11,1	10,5	9,2	7,7	6,2	4,2	2,2	1,2	97827	**577,00**	**E1**	97829	**609,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
Vigilex SS 850M	434,5	478,5	223,5	1 1/2"	11,1
Vigilex SS 1100M	454,5	498,5	223,5	1 1/2"	12
Vigilex SS 1350M	474,5	518,5	223,5	1 1/2"	13,5



Vigicor Drainage

Submersible grinder pumps, for sewage water, with filaments.

Applications
Drainage of sewage and dirty water, operation in septic tanks and small purifying installations.

Materials
Discharge cover, pump casing and motor casing in stainless steel AISI 304.
Impeller in technopolymer.
Pump base in cast iron and stainless steel AISI 304.
Volute in cast iron. Motor shaft in stainless steel AISI 420. Mechanical seal in alumine oxide and silicon carbide.
O-rings in NBR.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Built-in thermal protection.

Limitations
Maximum immersion: 9 m.
Maximum liquid temperature: 35° C.

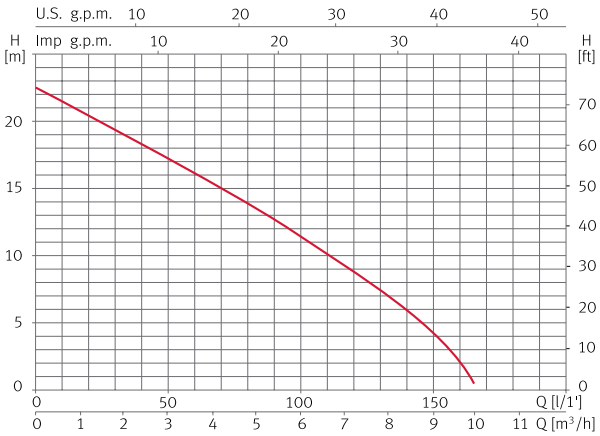
Equipments
Supplied with 10 m power cable.
Supplied with capacitor box.
Vigicor M A: with float switch.

Controlpanel for pump drainage, see accessories page 164.

Hydraulic performance table and prices

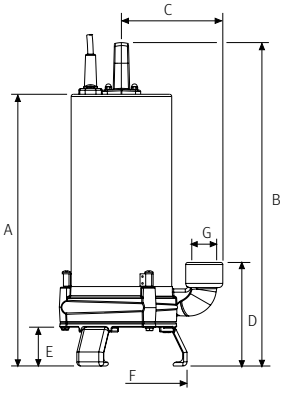
Model	I [A]	P1 [kW]	P2		c	l/min	15	30	50	65	80	100	115	135	1~230 V (Model M)			1~230 V (Model MA)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0,9	1,8	3,0	3,2	4,8	6,0	6,9	8,1	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Vigicor 150	5,4	1,2	0,9	1,2	16	mwc	18	17,1	16	15	14,7	11,5	9	5	97795	**673,00**	**E1**	97798	**692,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	Kg
Vigicor 150	395,5	471	147,5	151	56,5	191	1 1/4"	15,5



MXO Drainage

Portable submersible pumps for drainage

Applications
Emptying of drains, residential sumps, rain water tanks, etc.
Emergency emptying of flooded garages or basements.
Water transfer from tanks and cisterns.

Materials
Outer casing: stainless steel AISI 304.
Impeller in technopolymer.
Diffuser, motor casing, pump base and upper cover in stainless steel AISI 304.
Pump shaft in stainless steel AISI 303.
Double sealed. Mechanical seal on the pump side in silicon carbide/alumine oxide. Lip seal on motor side in NBR.
O-rings: NBR.

Motor
Asynchronous single phase, two poles.
Built-in thermal protection and capacitor.
Cooling via circulation of pumped liquid.
Protection IP 68.
Isolation class F.

Limitations
Maximum immersion: 5 m.
Maximum liquid temperature: 40 °C.
Maximum passage of solids: Ø10 mm.

Equipments
Supplied with 5 m of electric cable.
With float switch.
MXO M: without float switch.
MXO M A: with float switch.

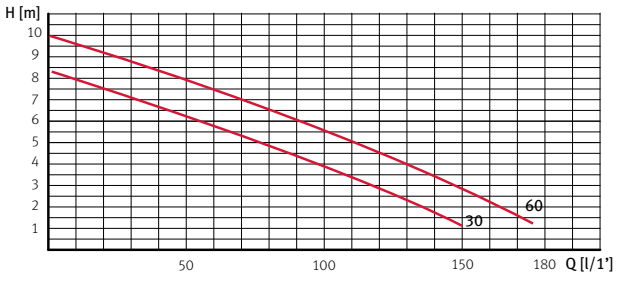
MXO

MXOV

Hydraulic performance table and prices

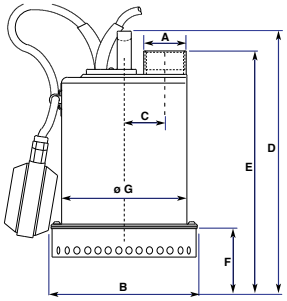
Model	P1	P2		I (A)	l/min	0	25	50	75	100	125	150	175	1~230 V (Model MA)		
	kW	Hp	kW	1~230 V	m³/h	0	1,5	3	4,5	6	7,5	9	10,5	Code	Price €	Discount cat.
MXO 30 MA	0,5	0,33	0,25	2,2	mwc	8	7,2	6,2	5,2	4	2,6	1		MXO30MA	**259,00**	**E1**
MXO 60 MA	0,7	0,6	0,45	3		10	8,8	8	6,8	5,6	4,5	3	1,2	MXO60MA	**274,00**	**E1**
MXOV 30 MA	0,5	0,33	0,25	2,2		8	7,2	6,2	5,2	4	2,6	1		MXOV30MA	**317,00**	**E1**
MXOV 60 MA	0,7	0,6	0,45	3		10	8,8	8	6,8	5,6	4,5	3	1,2	MXOV60MA	**331,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	Kg
MXO 30 MA	1"1/4	154	41	249	228	50	132	5,5
MXO 60 MA	1"1/4	154	41	249	228	50	132	6,2
MXOV 30 MA	1"1/4	154	41	249	228	50	132	5,5
MXOV 60 MA	1"1/4	154	41	249	228	50	132	6,2



Portable submersible pumps for drainage

Applications
Particularly advised for removing sewage water with floating waste thanks to a vortex impeller.

Materials
Pump body, feet, impeller, liner, cover and handle in AISI 304 stainless steel.
Motor shaft pump side in AISI 316 stainless steel.
O ring in NBR Pump-side mechanical seals in silicon carbide and alumina and NBR ring on motor side.

Equipments
Supplied with 5 m of electric cable.
With float switch.
MA: with float switch.

Motor
Motor in non-toxic cooling dielectric fluid bath.
Single phase versions with built-in thermal protection and capacitor.
IP 68 grade protection, F Class insulation.
Pump side sand separators.

Upon request
AISI 316.

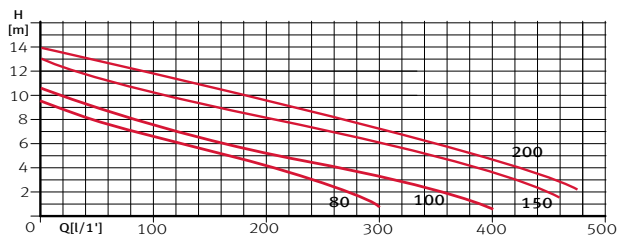
Limitations
Maximum immersion: 5 m.
Maximum temperature of pumped water:
25°C with the pump partially submerged.
50°C with the pump totally submerged.

Hydraulic performance table and prices

Model	P1	P2		I (A)		l/min	0	50	100	150	200	260	300	400	425	450	3~400 V			1~230 V (Model MA)		
	kW	Hp	kW	1~ 230 V	3~ 400 V	m³/h	0	3	6	9	12	15,6	18	24	25,5	27	Code	Price €	Discount cat.	Code	Price €	Discount cat.
ARX 80	1,1	0,8	0,6	5,2		mwc	9,5	8	6,7	5,5	4,2	2,4	0,6							ARX80MA	**429,00**	**E1**
ARX 100	1,5	1,0	0,75	6,5	2,6		10,5	8,6	7,6	6,6	5,4	4,4	3,2	0,6			ARX100	**472,00**	**E1**	ARX100MA	**472,00**	**E1**
ARX 150	2,7	1,5	1,1	10,4	3,3		13	11,4	10,4	9,4	8,4	7	5,4	2,5	1,6		ARX150	**610,00**	**E1**	ARX150MA	**610,00**	**E1**
ARX 200	2,2	2,0	1,5		3,7		14	13	12	10,8	9,8	8,4	7,4	4,0	3,4	2,4	ARX200	**625,00**	**E1**			

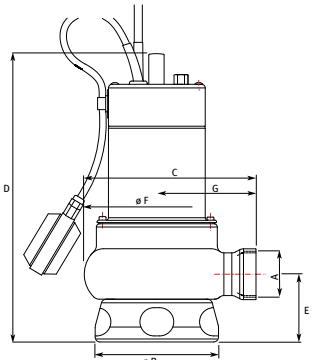
Prices include a curved connection with hose and 10 m of cable.

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	Diam. solidi	Kg
ARX 80	1"1/2	180	214	358	88	180	124	40 mm	10,5
ARX 100	2"	180	214	358	88	180	124	50 mm	11,5
ARX 150	2"	180	214	398	88	180	124	50 mm	13,5
ARX 200	2"	180	214	398	88	180	124	50 mm	13,5



KNT Drainage

Sumersible pump for building sites

Applications
Drainage di cantieri edili e cunicoli.
Drainage di acque d'inflitrazione o piovane, movimentazioni di acque moderatamente cariche contenenti elementi solidi anche moderatamente abrasivi.

Materials
Carcassa esterna, filtro aspirazione, coperchio Motor in acciaio inossidabile AISI 304.
(Coperchio in ghisa G20 per KNT 400)
Diffusore in HNBR con anima di acciaio, girante in acciaio inossidabile speciale
Flange inferiore in alluminio con trattamento speciale per KNT 180, in ghisa G20 per KNT 400
Doppia tenuta meccanica in carburo di silicio-allumina (carburo di silicio-carburo di silicio per KNT400) e grafite-allumina.
Guarnizioni or in NBR.
Albero Motor lato Pump in acciaio inossidabile AISI 316.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.

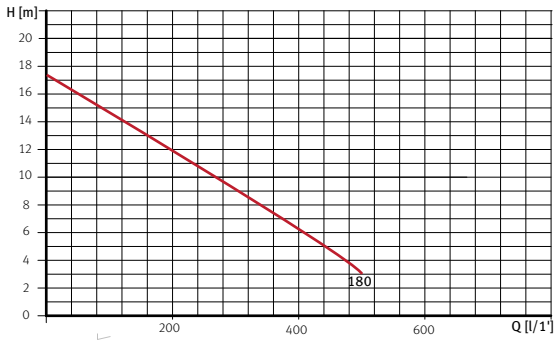
Limitations
Maximum immersion: 5 m.
Maximum passage of solids: Ø10 mm.
Maximum temperature of pumped water: 40°C with the pump totally submerged.

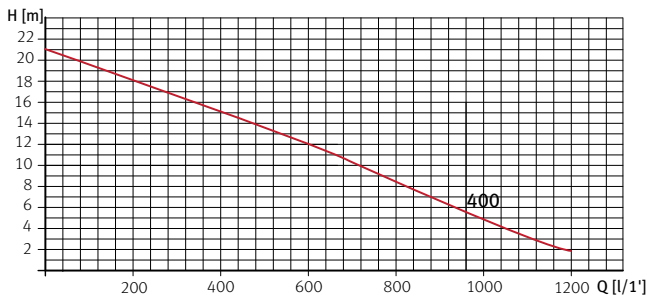
Equipments
Supplied with 10 m of electric cable.
Single phase versions with built-in thermal protection.
MA: with float switch.

Hydraulic performance table and prices

Model	P1	P2		I (A)		l/min	0	100	200	300	500	700	900	1200	1~230 V (Model MA)			3 x 400 V		
	kW	Hp	kW	1~ 230 V	3~ 400 V	m³/h	0	6	12	18	30	42	54	72	Code	Price €	Discount cat.	Code	Price €	Discount cat.
KNT 180	2,2	1,5	1,1	9,5	3,3	mwc	17,5	14,8	12	9	3				KNT180MA	**1.272,00**	**E1**	KNT180	**1.272,00**	**E1**
KNT 400	5	4	3		9,5		21	20	18	16	13,5	10,5	6,5	2				KNT400	**2.329,00**	**E1**

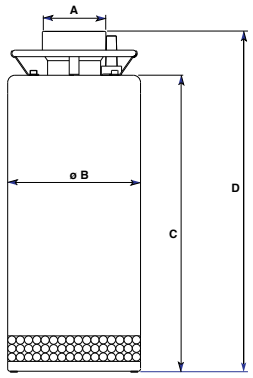
Performance curves at 2900 rpm





Dimensions and weights

Model	A	B	C	D	Kg
KNT 180	2"	203	230	446	21
KNT 400	3"	203	484	551	38



Drain 100 Drainage

Submersible pumps for the drainage of water without solids in suspension

Applications
Drainage of filtered water, emptying of swimming pools, decorative fountains and waterfalls.

Materials
Discharge body and upper mounting in cast iron.
Impeller in technopolymer.
Double mechanical seal in ceramic/graphite/NBR.
Filter in rigid plastic.
Motor housing and transport handle in stainless steel AISI 304.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Built-in thermal protection.

Limitations
Maximum solids handling: 5 mm.
Maximum immersion: 8 m.
Maximum liquid temperature: 40 °C.

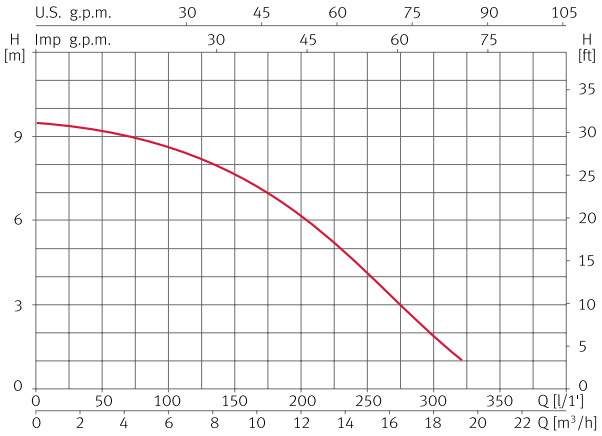
Equipments
Supplied with 10 m power cable.
Single phase supplied with capacitor box.
MA: with float switch.

Controlpanel for pump drainage, see accessories page 164.

Hydraulic performance table and prices

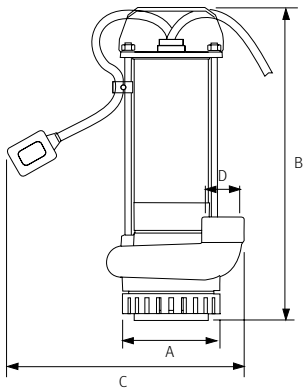
Model	I [A]	P1 [kW]	P2		c	l/min	25	50	100	150	200	250	300	320	1~230 V (Model M)			1~230 V (Model MA)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	1,5	3,0	6,0	9,0	12	15	18	19,2	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Drain 100	3,1	0,7	0,75	1	12	mwc	9,2	9,1	8,7	7,8	6	4	2	1	Drain100M	398,00	E1	Drain100MA	419,00	E1

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
Drain 100	122	392	300	1 1/4"	10,5



DMR Drainage

Submersible pumps for the drainage of clear water

Applications
Drainage of water without solids in suspension.
Drainage of seepage water or rainwater, via tanks and vats.

Materials
External housing, suction filter, cover and impeller made of AISI 304 stainless steel.
Diffusor in cast iron (G20).
Mechanical seal in silicon carbidealumina and alumina-carbon.
NBR O-ring seals.
Motor shaft pump side in stainless steel AISI 316.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Single phase versions with built-in thermal protection.

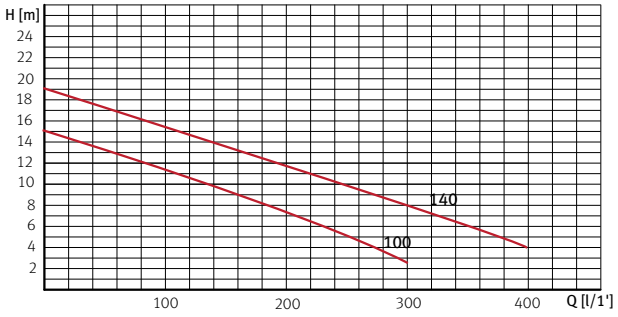
Limitations
Maximum immersion: 5 m.
Maximum solids handling: 5 mm.
Maximum temperature of pumped water:
25°C with the pump partially submerged.
50°C with the pump totally submerged.

Equipments
Supplied with 10 m of electric cable.
MA: with float switch.

Hydraulic performance table and prices

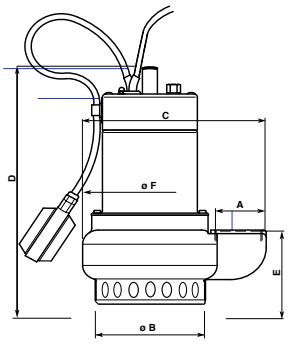
Model	P1	P2		I (A)		l/min	0	25	50	100	150	200	250	300	400	1~230 V (Model MA)			3~400 V		
	kW	Hp	kW	1~ 230 V	3~ 400 V	m³/h	0	1,5	3	6	9	12	15	18	24	Code	Price €	Discount cat.	Code	Price €	Discount cat.
DMR 100	1,3	1,0	0,75	6,5	2,6	mwc	15	14	12,8	11,2	9,2	7,4	5,2	2,6		DMR100MA	**422,00**	**E1**	DMR100	**422,00**	**E1**
DMR 140	2,0	1,5	1,1	9,0	3,0		19,5	19	18,5	17,5	16	14	11,8	9,2	4	DMR140MA	**527,00**	**E1**	DMR140	**527,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
DMR 100	1"1/2	190	213,5	300	13,5
DMR 140	1"1/2	190	213,5	344	18,2



DRX Drainage

Submersible pumps for clear water

Applications
Drainage of water without solids in suspension. Drainage of seepage water or rainwater, via tanks and vats.

Materials
Motor casing and bolts in AISI 304.
Motor mounting flange, pump body and impeller in cast iron (G25).
Carbon-ceramic mechanical seals (silicon carbide/silicon carbide for the 200 and 300 versions) and oil seal.
NBR O-ring seals.
Motor shaft in AISI 420.

Motor
Asynchronous two poles with oil bath lubrication.
Class F insulation.
IP 68 protection.

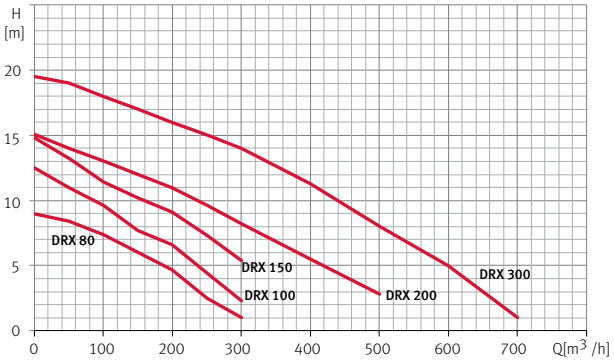
Limitations
Through section: 35mm (models 80, 100 and 150), 50mm (models 200 and 300).
Maximum immersion: 9 m.
Maximum liquid temperature: 40 °C. with pump totally immersed.

Equipments
10m long H07 RNF power cable.
Single phase models 80, 100 and 150 have built-in capacitors whereas the 200 model has an external capacitor.
The 200 and 300 models come complete with a starter panel and thermal motor protector.
MA: with water level cut-off

Hydraulic performance table and prices

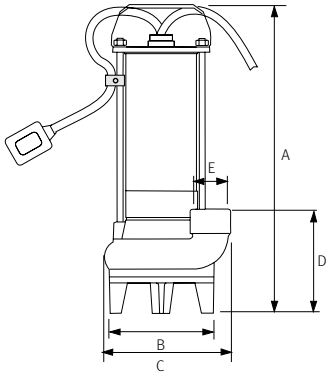
Model	P1	P2		I (A)		l/min	50	100	200	300	400	500	600	700	1~230 V (Model MA)			1~230 V (Model M)			3~400 V (Model T)		
	kW	Hp	kW	1~ 230 V	3~ 400 V	m³/h	0	6	12	18	24	30	36	42	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
DRX 80	0,9	0,8	0,58	4		mwc	9	7,4	4,7	1					DRX80MA	**315,00**	**E1**	DRX80M	**303,00**	**E1**	DRX80	**303,00**	**E1**
DRX 100	1,1	1	0,75	4,8	2,3		11	8,6	6,6	2,3					DRX100MA	**345,00**	**E3**	DRX100M	**333,00**	**E1**	DRX100	**333,00**	**E1**
DRX 150	1,8	1,5	1,1	8,8	3,8		13,2	11,4	9,1	5,4					DRX150MA	**456,00**	**E4**	DRX150M	**444,00**	**E1**	DRX150	**444,00**	**E1**
DRX 200	2,5	2	1,5	11,7	4,5		14	13	11	8,2	5,5	2,8			DRX200MA	**685,00**	**E1**	DRX200M	**634,00**	**E1**	DRX200	**634,00**	**E1**
DRX 300	3,2	3	2,2		6,3		19	17,5	16	14	11,3	8	5	1							DRX300	**656,00**	**E1**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	Kg
DRX 80	415	170	235	134	1"1/2	14
DRX 100	455	170	235	134	1"1/2	16
DRX 150	431	170	310	150	1"1/2	24
DRX 200	446	170	310	150	2"	26
DRX 300	446	170	310	150	2"	26



Drainex 100 Drainage

Submersible pumps, Vortex system for sewage water

Applications
Drainage of sewage and dirty water, operation in septic tanks and small purifying intallations.

Materials
Discharge body and upper mounting in cast iron.
Impeller in brass with free passage of particles in suspension of Ø 34 mm.
Double mechanical seal in ceramic/graphite and ceramic/silicon carbide.
Motor housing and transport handle in stainless steel AISI 304.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Single-phase version built-in thermal protection.

Limitations
Maximum solids handling: 32 mm.
Maximum immersion: 8 m.
Maximum liquid temperature: 40 °C.

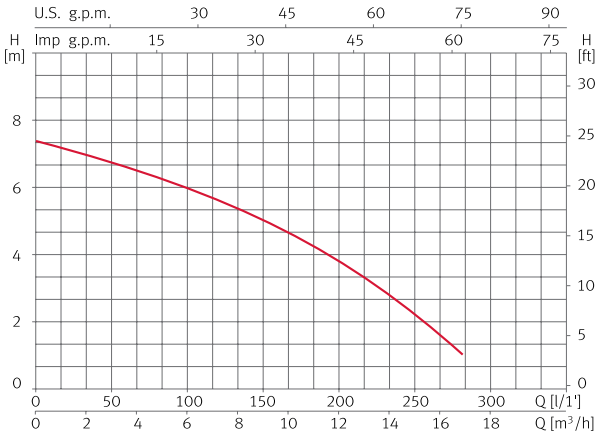
Equipments
Supplied with 10 m power cable.
Single-phase supplied with capacitor box.
Drainex 100M: without float switch.
Drainex 100M A: with float switch.

Controlpanel for pump drainage, see accessories page 164.

Hydraulic performance table and prices

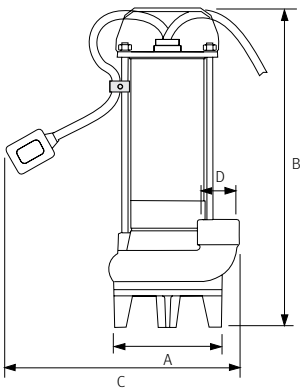
Model	I [A]	P1 [kW]	P2		c	l/min	25	50	100	125	150	200	250	280	1~230 V (Model MA)			1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	1,5	3,0	6,0	7,5	9,0	12	15	16,8	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Drainex 100	3,4	0,75	0,75	1	12	mwc	7	6,7	5,9	5,5	5	3,7	2	1	96625	435,00	E1	96622	416,00	E1

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
Drainex 100	138	407	300	1 1/4"	11



Drainex 200/300 Drainage

Submersible monobloc pumps, Vortex system for sewage water

Applications
Drainage of sewage and dirty water, operation in septic tanks and small purifying installations.

Materials
Pump body, discharge body, suction body and impeller in cast iron.
Mechanical seal in silicon carbide and ceramic.
Pump base in stainless steel AISI 304, detachable for coupling of accessories.
O-rings in NBR.
Motor shaft in stainless steel AISI 420.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Single-phase version built-in thermal protection and capacitor.

Limitations
Maximum solids handling:
Drainex 200: 45 mm.
Drainex 300: 60 mm.
Maximum liquid temperature: 40° C.

Equipments
Supplied with 10 m power cable.
Drainex M: without float switch.
Drainex M A: with float switch.
Transportable versions include elbow and s/s feet.

Ample space between the impeller and the inlet cone to allow the passage of solid particles in suspension.

See accessories page 52.
Control panel for pump drainage, see accessories page 164.

Hydraulic performance table and prices

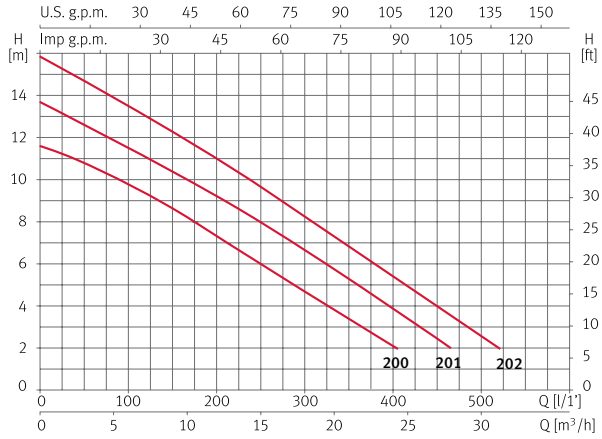
Model	I [A]		P1 [kW]		P2		c	l/min	50	100	200	300	400	500	1~230 V (Model M)			1~230 V (Model MA)			3~400 V (Model T)		
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	3,0	6,0	12	18	24	30	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Drainex 200	5,4	2,3	1,1	1,1	1,1	1,5	16	mwc	10,7	9,7	7,4	4,9	2,3		96652	**680,00**	E1	96654	**702,00**	E1	96648	**680,00**	E1
Drainex 201	6,6	2,6	1,4	1,4	1,1	1,5	16		13,2	11,9	9,4	6,7	3,8		96664	**725,00**	E1	96666	**664,00**	E1	96662	**725,00**	E1
Drainex 202	7,4	2,8	1,6	1,6	1,1	1,5	16		15,1	13,8	11,3	8,5	5,6	2,5	96674	**813,00**	E1	96676	**846,00**	E1	96672	**813,00**	E1

Model	I [A]		P1 [kW]		P2		c	l/min	50	100	200	400	500	650	1~230 V (Model M)			1~230 V (Model MA)			3~400 V (Model T)		
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	3,0	6,0	12	24	30	39	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Drainex 300	5,50	2,4	1,2	1,2	1,1	1,5	16	mwc	7,1	6,6	5,4	2,9	1,8		96684	**959,00**	E1	96686	**999,00**	E1	96682	**959,00**	E1
Drainex 301	6,80	2,7	1,5	1,5	1,1	1,5	12		9,2	8,5	7	4,1	2,8		96694	**1016,00**	E1	96696	**1056,00**	E1	96692	**1016,00**	E1
Drainex 302	7,20	3	1,8	1,8	1,1	1,5	12		11	10,5	9	5,8	4,2	1,8	96704	**1082,00**	E1	96706	**1130,00**	E1	96702	**1082,00**	E1

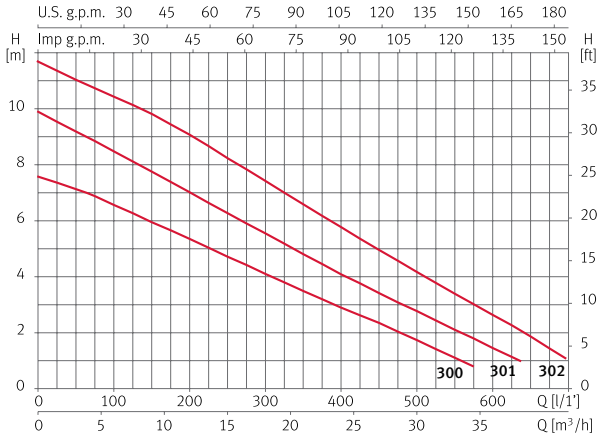
Drainex 200/300 Drainage

Performance curves at 2900 rpm

Drainex 200



Drainex 300

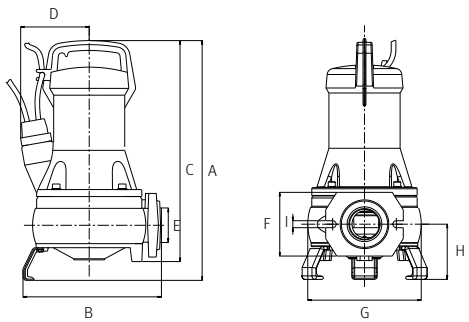


Dimensions and weights

Drainex 200/201/202

Model	A	B	C	D	E	F	G	H	I	Kg
Drainex 200	415	239,5	383	118,7	2"	110	196	95	12	25
Drainex 201	415	239,5	383	118,7	2"	110	196	95	12	25
Drainex 202	415	239,5	383	118,7	2"	110	196	95	12	25

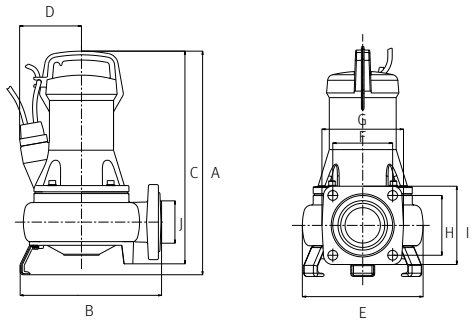
Ø Impeller ext.: Drainex 200: 105 mm. **Drainex 201:** 115 mm. **Drainex 202:** 124 mm.



Drainex 300/301/302

Model	A	B	C	D	E	F	G	H	I	J	Kg
Drainex 300	429	271,5	408	118,7	222	110	150	110	144	2 1/2"	28
Drainex 301	429	271,5	408	118,7	222	110	150	110	144	2 1/2"	28
Drainex 302	429	271,5	408	118,7	222	110	150	110	144	2 1/2"	28

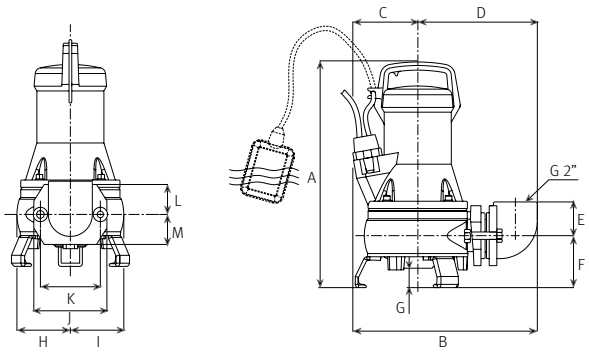
Ø Impeller ext.: Drainex 300: 105 mm. **Drainex 301:** 115 mm. **Drainex 302:** 124 mm.



Portable version

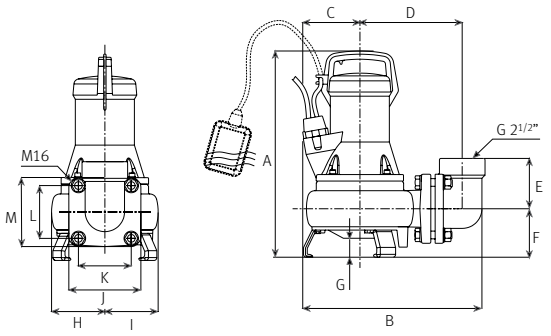
Drainex 200/201/202

A	B	C	D	E	F	G	H	I	J	K	L	M
437	338	110	219	62	95	49	98	98	134	110	55	55



Drainex 300/301/302

A	B	C	D	E	F	G	H	I	J	K	L	M
455	373	108	213	105	101	62	111	111	150	110	110	144

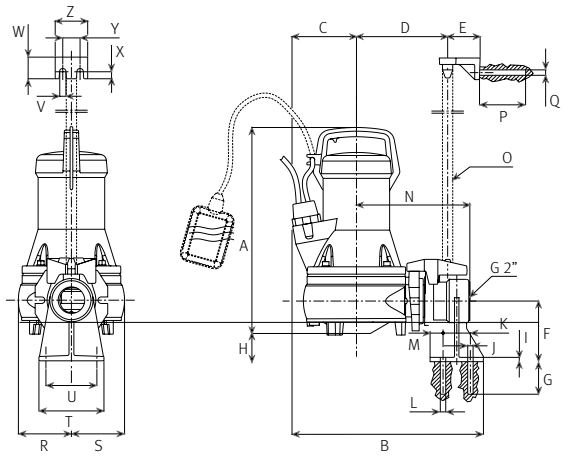


Fixed version, guide rail system

Drainex 200/201/202

A	B	C	D	E	F	G	H	I	J	K	L	M
388	353	110	168	60	112	60	52	8	12	50,5	Ø10	24

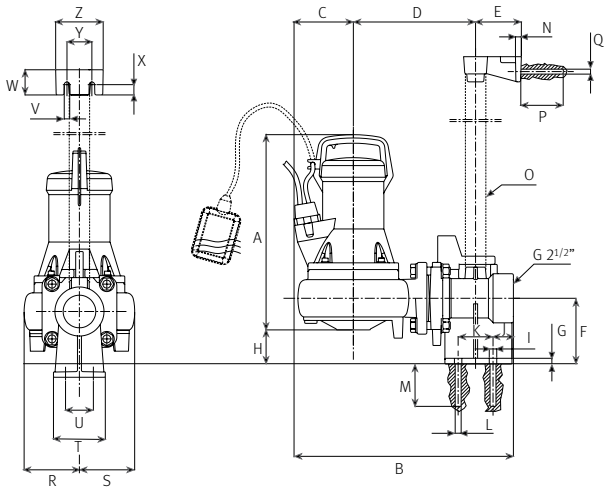
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
209	Ø25	85	Ø10	98	98	120	94	12	40	13	32	60



Drainex 300/301/302

A	B	C	D	E	F	G	H	I	J	K	L	M
405	441	108	245,5	92	132	11,5	74,5	15	38	70	Ø12	85

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
12	Ø42	85	Ø10	111	111	104	56	11	50,5	20,5	50	95



Drainex 400/500/600 Drainage

Submersible mono block pumps with Vortex impeller for draining water with solids

Applications
In water treatment facilities.
Pressurised drainage systems.
Drainage of faecal water from housing and garages.
Drainage for water with solids in public establishments, restaurants, etc.
General drainage systems in industry, farms, livestock farms, excavations, garages and civil engineering works.
Drainage of cesspits and septic tanks.
Atex version for installing in the facilities described in the Atex regulations (II 2G d II B T4).

Materials
Pump body and impeller in cast iron.
Double mechanical seal: on the pump side in silicon carbide and on the motor side in graphite/alumina oxide with an oil chamber between pump and motor.
The motor shaft is not in contact with water.
AISI 304 stainless steel screws.
O-rings in NBR.

Electrical and motor specifications
Asynchronous, two pole.
IP 68 protection.
Class F insulation.
Continuous operation (fully submerged).
Atex II 2G version. Ex d II B t4.
Atex version is supplied with a humidity sensor and thermal protection in case the motor overheats.
To ensure full protection we recommend installation of appropriate protection and control panels (see accessories page 52).

Limitations
Maximum immersion depth 9 m.
Maximum number of starts: 15 per hour.
Level switch. Optional for connecting to electrical panel.
The whole **Drainex** range can operate at a maximum temperature of 40 °C.

Solids passage Ø
Drainex 400/500: the passage of solids of up to 40 mm with a DN 50 impeller.
Drainex 600: the passage of solids of up to 65 mm with a DN 65 impeller.

See accessories page 52.
Control panel for pump drainage, see accessories page 164.

Hydraulic performance table and prices

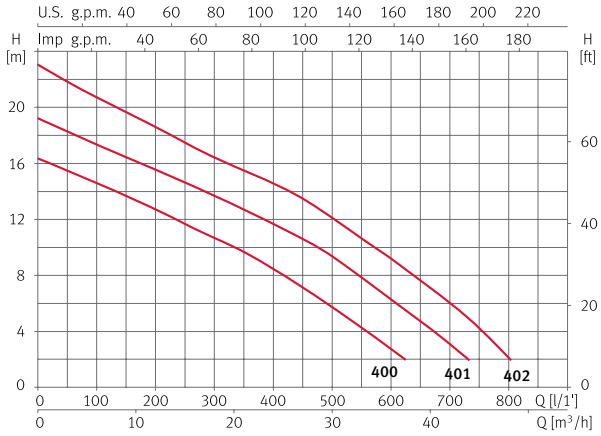
Model	I [A]	P1 [kW]	P2		l/min	100	200	400	500	600	700	800	3~400 V (Model T)		
	3~ 400 V	3~ 400 V	[kW]	[HP]	m³/h	6,0	12	24	30	36	42	48	Code	Price €	Discount cat.
Drainex 400	4,1	1,9	2,6	3,5	mwc	14,6	12,7	8,3	5,9	2,8			137506	**1.739,00**	**E1**
Drainex 401	4,8	2,45	2,6	3,5		17,3	15,5	11,6	9,3	5,2	3		137503	**1.931,00**	**E1**
Drainex 402	5,6	3,1	2,6	3,5		20,7	18,6	13,,7	12	9,3	5	2	129725	**1.999,00**	**E1**

Model	I [A]	P1 [kW]	P2		l/min	100	300	400	500	600	750	810	3~400 V (Model T)		
	3~ 400 V	3~ 400 V	[kW]	[HP]	m³/h	6,0	18	24	30	36	45	49	Code	Price €	Discount cat.
Drainex 500	7,2	4,2	3,7	5	mwc	23,2	19,7	17,6	15,6	13	8,5	6	137507	**1.944,00**	**E1**
Drainex 501	8,3	5	3,7	5		27,4	23,5	21,2	19,1	16,8	12	5,2	137504	**2.013,00**	**E1**
Drainex 502	8,7	5,3	3,7	5		30,1	26,8	24,5	22,2	20	15,4	10	129726	**2.136,00**	**E1**

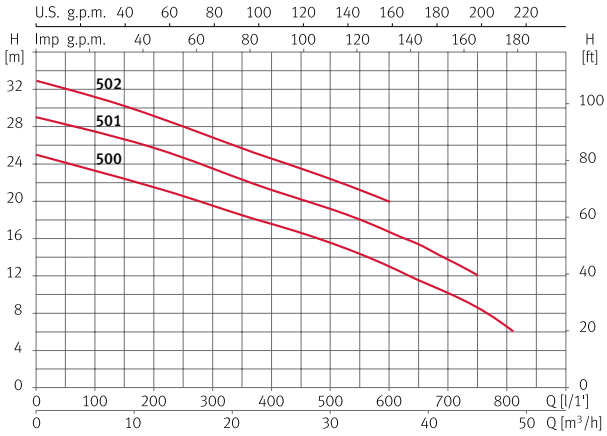
Model	I [A]	P1 [kW]	P2		l/min	200	400	600	800	1000	1200	1300	3~400 V (Model T)		
	3~ 400 V	3~ 400 V	[kW]	[HP]	m³/h	12	24	36	48	60	72	78	Code	Price €	Discount cat.
Drainex 600	5,7	3	3,7	5	mwc	14,8	13,3	10,4	6,3	3,4			137508	**1.990,00**	**E1**
Drainex 601	6,8	3,9	3,7	5		18	16,3	14	9,8	6	3,1		137505	**2.058,00**	**E1**
Drainex 602	8,1	4,8	3,7	5		21	19	16,8	13,3	9	5,8	4,3	129730	**2.182,00**	**E1**

Performance curves at 2900 rpm

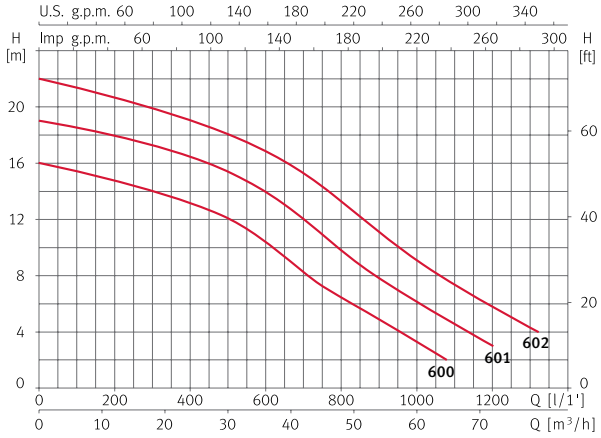
Drainex 400



Drainex 500



Drainex 600



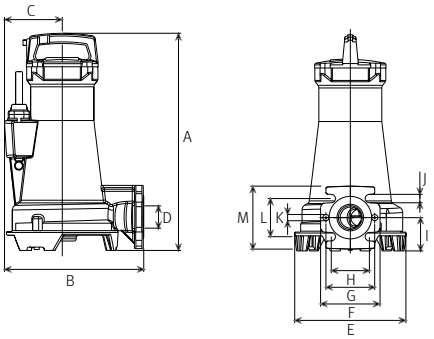
Drainex 400/500/600 Drainage

Dimensions and weights

Drainex 400/401/402

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Kg
Drainex 400	488	313	130	Ø50	251	134	110	86	75	19	Ø14	86	142	45
Drainex 401	488	313	130	Ø50	251	134	110	86	75	19	Ø14	86	142	45
Drainex 402	488	313	130	Ø50	251	134	110	86	75	19	Ø14	86	142	45

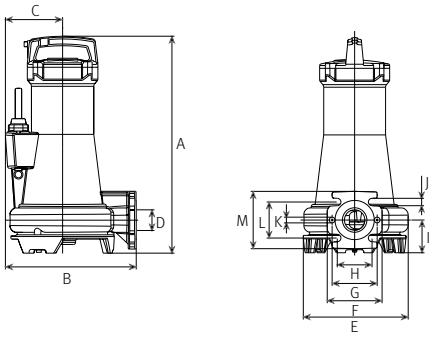
Ø Impeller ext.: Drainex 400: 115 mm. **Drainex 401:** 125 mm. **Drainex 402:** 136 mm.



Drainex 500/501/502

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Kg
Drainex 500	526	317	139	Ø50	256	134	110	85	80	18	Ø14	88	140	55
Drainex 501	526	317	139	Ø50	256	134	110	85	80	18	Ø14	88	140	55
Drainex 502	526	317	139	Ø50	256	134	110	85	80	18	Ø14	88	140	55

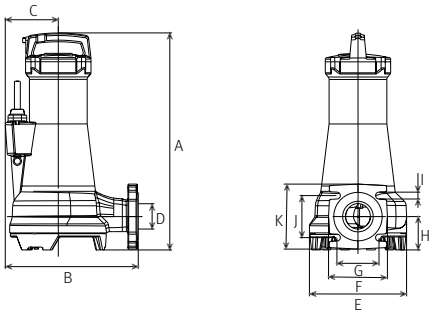
Ø Impeller ext.: Drainex 500: 140 mm. **Drainex 501:** 150 mm. **Drainex 502:** 160 mm.



Drainex 600/601/602

Model	A	B	C	D	E	F	G	H	I	J	K	Kg
Drainex 600	567	348	139	Ø65	254	154	110	87	18	110	170	60
Drainex 601	567	348	139	Ø65	254	154	110	87	18	110	170	60
Drainex 602	567	348	139	Ø65	254	154	110	87	18	110	170	60

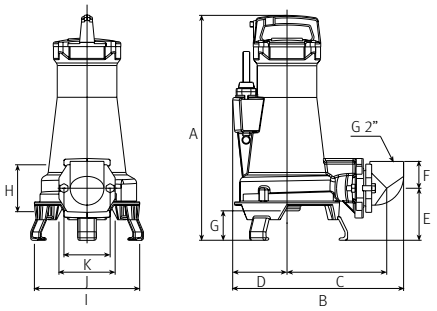
Ø Impeller ext.: Drainex 600: 125 mm. **Drainex 601:** 135 mm. **Drainex 602:** 145 mm.



Portable version

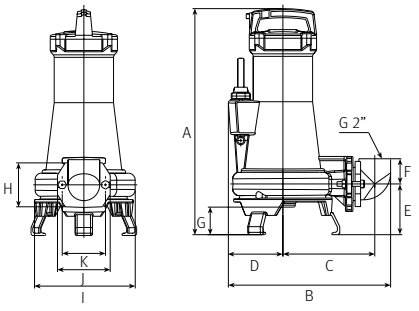
Drainex 400/401/402

A	B	C	D	E	F	G	H	I	J	K
537	408	238	130	124	64	70	110	251	134	110



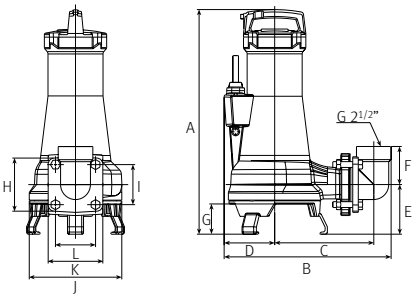
Drainex 500/501/502

A	B	C	D	E	F	G	H	I	J	K
575	412	234	139	129	64	70	110	256	134	110



Drainex 600/601/602

A	B	C	D	E	F	G	H	I	J	K	L
616	458	272	139	136	105	83	144	110	254	150	110

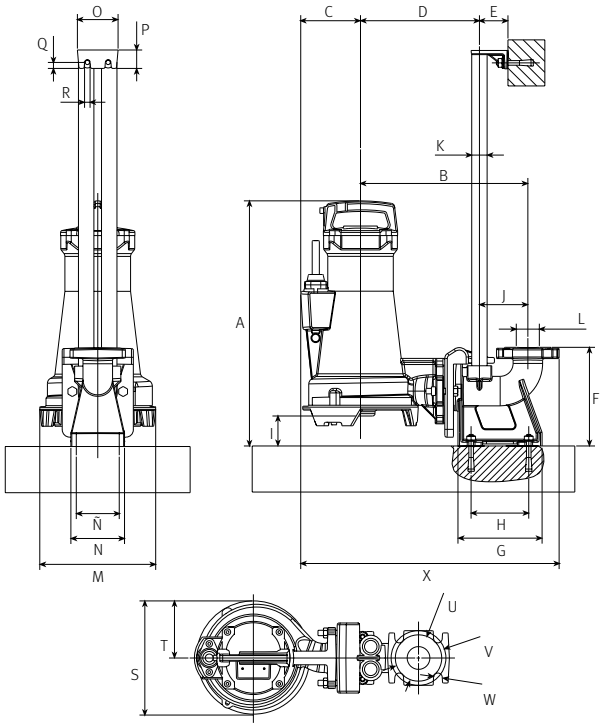


Fixed version, guide rail system

Drainex 400/401/402

A	B	C	D	E	F	G	H	I	J	K	L
532	363	130	258	62	214	182,5	125	65	105	1”	Ø50

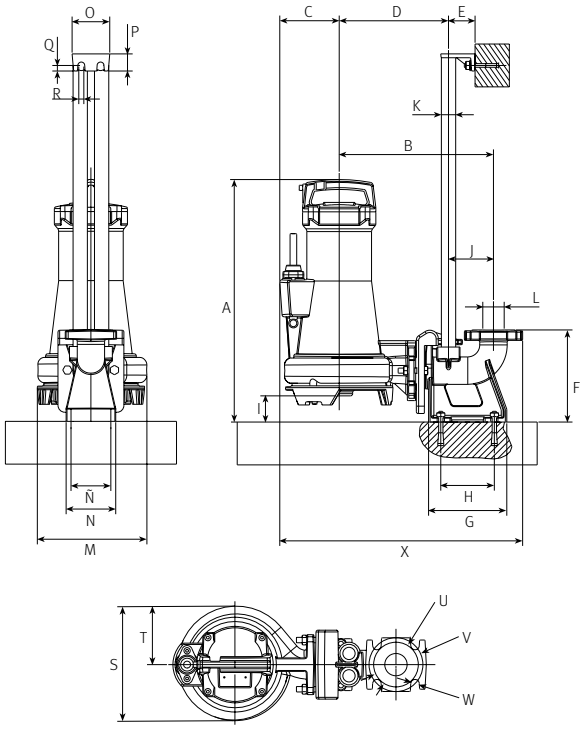
M	N	Ñ	O	P	Q	R	S	T	U	V	W	X
251	116	93	88	40	13	12	251	125	100	120,5	19	561



Drainex 500/501/502

A	B	C	D	E	F	G	H	I	J	K	L
566	360	139	255	62	215	182,5	125	61	105	1”	Ø50

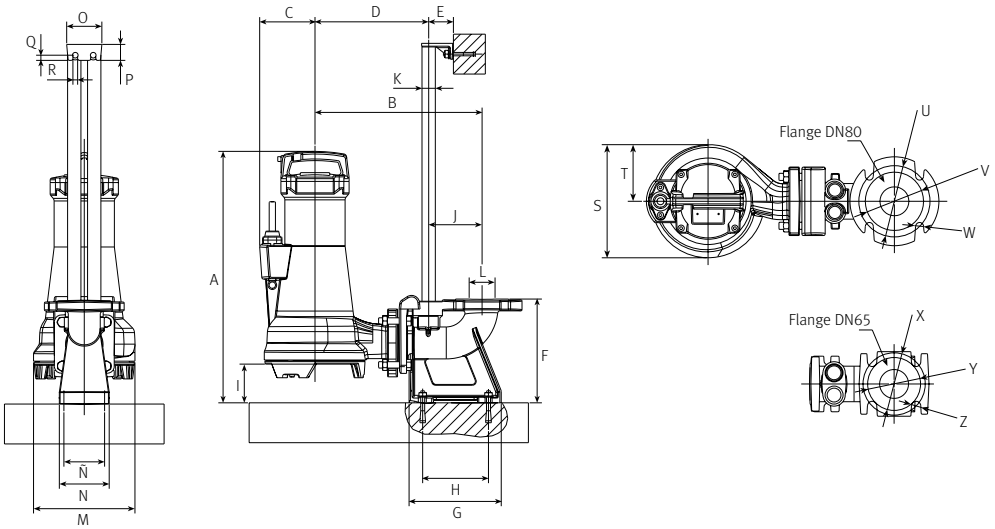
M	N	Ñ	O	P	Q	R	S	T	U	V	W	X
256	116	93	88	40	13	12	256	131	100	120	19	566,8



Drainex 600/601/602

A	B	C	D	E	F	G	H	I	J	K	L	M
630	419	319	285	62	260	231	165	97	134	1”	Ø65	254

N	Ñ	O	P	Q	R	S	T	U	V	W	X	Y	Z
125	102	88	40	13	12	254	127	Ø60	Ø133	Ø18	Ø140	Ø120	Ø21



Draincor Drainage

Submersible grinder pumps, for sewage water, with filaments

Applications
Drainage of sewage and dirty water, operation in septic tanks and small purifying installations.

Materials
Pump body, discharge body, suction body and impeller in cast iron.
Dilacerative system in steel F-520.
Mechanical seal in silicon carbide and ceramic.
Pump base in stainless steel AISI 304, detachable for coupling of accessories.
O-rings in NBR.
Motor shaft in stainless steel AISI 420.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation (fully submerged).
Water-cooled motor.
Single-phase version built-in thermal protection and starting box with double capacitor.

Equipments
11/2" BSP female threaded discharge elbow.
Single-phase supplied with capacitor box.
Supplied with 10 m power cable.
Draincor M A: with float switch.

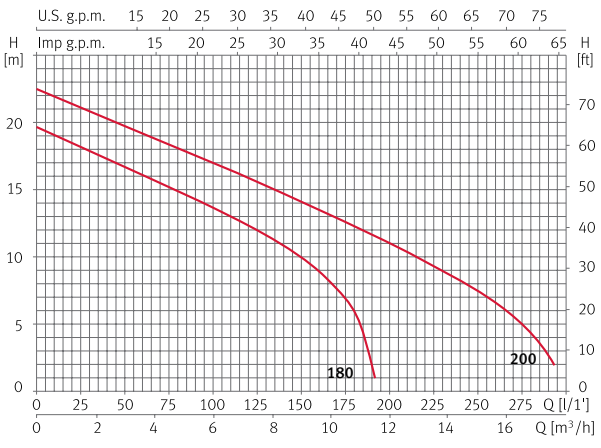
Su richiesta
Lowering system installation kit (Kit DR1).

See accessories page 52.
Control panel for pump drainage, see accessories page 164.

Hydraulic performance table and prices

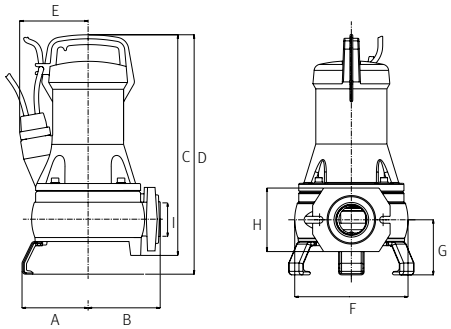
Model	I [A]		P1 [kW]		P2		c	l/min	25	50	100	150	200	290	1~230 V (Model M)			1~230 V (Model MA)			3~400 V (Model T)		
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,5	3,0	6,0	9,0	12	17,4	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Draincor 180	7,8		1,7		1,1	1,5	16/50	mwc	18	16,7	13,7	10			96611	**1.185,00**	**E1**	96613	**1.225,00**	**E1**	96609	**1.024,00**	**E1**
Draincor 200		3		1,8	1,25	1,7			21	19,7	17	14,1	11	2,5							96617	**1.185,00**	**E1**

Performance curves at 2900 rpm



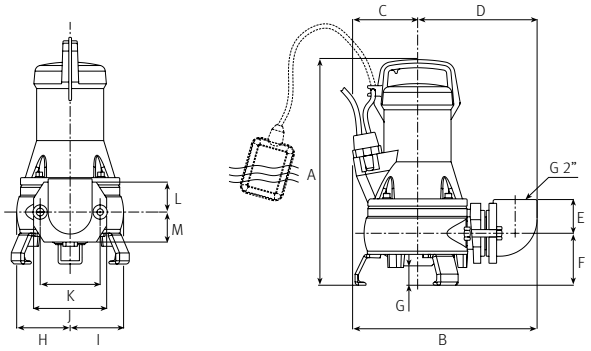
Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	Kg
Draincor 180	114,5	125	382,5	415,1	118,7	196	92,25	110	1 1/2"	25
Draincor 200	114,5	125	382,5	415,1	118,7	196	92,25	110	1 1/2"	25



Portable version

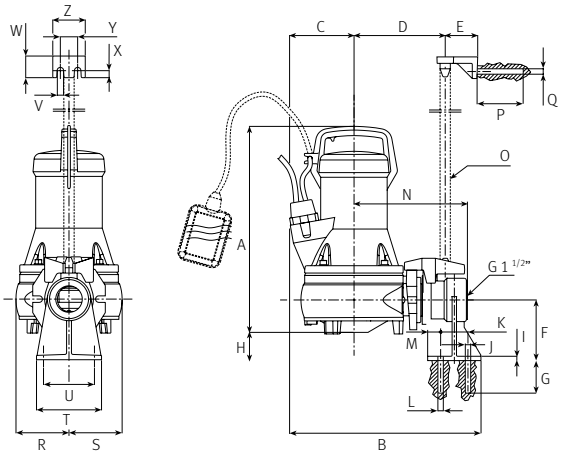
A	B	C	D	E	F	G	H	I	J	K	L	M
437	338	110	219	62	95	49	98	98	134	110	55	55



Fixed version, guide rail system

A	B	C	D	E	F	G	H	I	J	K	L	M
388	353	110	168	60	112	60	52	8	12	50,5	Ø10	24

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
209	Ø25	85	Ø10	98	98	120	94	12	40	13	32	60



Accessories

Drainex 200/300/400/500/600 and Draincor 180/200

Stationary version for Drainex 200 models

Support base for automatic anchoring

Clamping flange

Upper anchoring on guide

Kit	Code	Price €	Discount cat.
DR1	100527	**81,00**	**E1**

Stationary version for Drainex 300 models

Support base for automatic anchoring

Clamping flange

Upper anchoring on guide

Kit	Code	Price €	Discount cat.
DR2	100528	**148,00**	**E1**

Stationary version for Drainex 400/500 models

DN50 (flange 50) DIN 2501 PN16 ANSI 150 2”

Support base with elbow for automatic anchoring

Clamping flange

Upper anchoring on double guide tube

Kit	Code	Price €	Discount cat.
DR3	132136	**329,00**	**E1**

Transportable version for Drainex 400/500 models

90 ° elbow at 2”

Stainless steel feet

Kit	Code	Price €	Discount cat.
DR6	132139	**91,50**	**E1**

Stationary version for Drainex 600 models

DN 65 (flange 65) DIN 2501 PN16 ANSI 150 2 1/2”

Support base with elbow for automatic anchoring

Clamping flange

Upper anchoring on double guide tube

DN 65 (flange 80) DIN 2501 PN16 ANSI 150 2 1/2”

Support base with elbow for automatic anchoring

Clamping flange

Upper anchoring on double guide tube

Kit	Code	Price €	Discount cat.
DR4	132137	**398,00**	**E1**
DR5	132138	**407,00**	**E1**

Transportable version for Drainex 600 models

90 ° elbow at 21/2”

Stainless steel feet

Kit	Code	Price €	Discount cat.
DR7	132140	**124,00**	**E1**

Non-return valves with threaded and flanged ball

Diameter	Material	Code	Price €	Discount cat.
2”	Cast iron	6VRFL020	**130,00**	**E1**
2 1/2”	Cast iron	6VRFL030	**214,00**	**E1**

Submersible pump with dilacerative system

Applications
Drainage of sewage previously filtered by grid and in small purification plants where maceration of semi-solid masses free of rubbery, fibrous or thread-like elements is required.

Materials
Pump body and impellers in AISI 304 stainless steel.
Cast iron (G25) motor flange mount, pump body and impeller with hardened AISI 440 maceration system.
Mechanical seal in graphite and alumine.
O-rings in NBR.
Motor shaft in AISI 420 stainless steel.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Single-phase motor, built-in thermal protection.

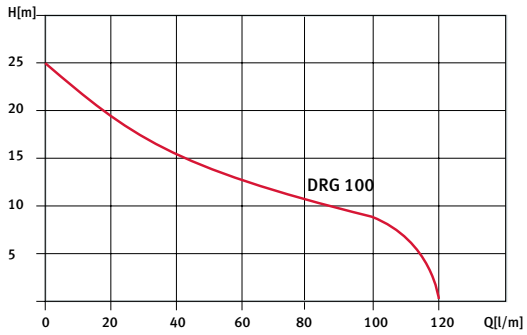
Limitations
Maximum liquid temperature: 40° C.
Maximum immersion: 9 m.

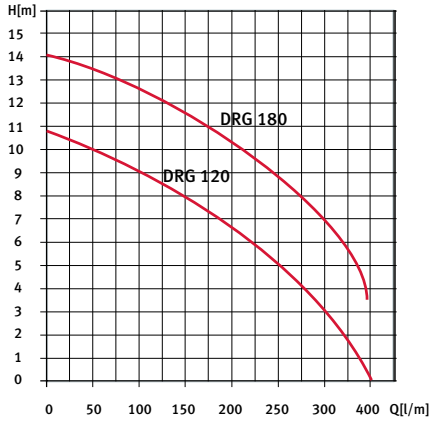
Equipments
10m long H07 RNF power cable.
External capacitor with control panel and motor protector available on request.

Hydraulic performance table and prices

Model	P1	P2		I (A)		l/min	0	50	100	125	150	200	250	300	400	1 x 230 V (Model M)			1 x 230 V (Model MA)			3 x 400 V		
	kW	Hp	kW	1~ 230 V	3~ 400 V	m³/h	0	3	6	7,5	9	12	15	18	24	Code	Price €	Discount cat.	Code	Price €	Discount cat.	Code	Price €	Discount cat.
DRG 100	1,25	1	0,75	5,8		mwc	25	14	9	0						DRG100M	568,00	E1	DRG100MA	579,00	E1			
DRG 120	1,6	1,2	0,9	7,1	3,6		10	9,5	9	8,5	8	6,5	5	3,5	0	DRG120M	741,00	E1	DRG120MA	753,00	E1	DRG120	695,00	E1
DRG 180	2,1	1,8	1,3	9,2	4,2		14	13,4	12,8	13,4	11,7	10	8,8	7	3,3	DRG180M	829,00	E1	DRG180MA	841,00	E1	DRG180	829,00	E1

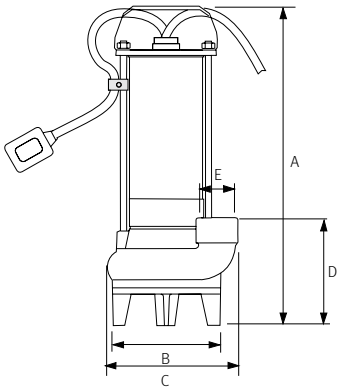
Performance curves at 2900 rpm





Dimensions and weights

Model	A	B	C	D	E	Kg
DRG 100	371	170	223	120	1"	15
DRG 120	431	170	310	150	2"	25,5
DRG 180	446	170	310	150	2"	27,5



Drainbox 300 Drainage

Lifting stations for domestic applications

Applications
Domestic: detached homes, cottages, rural properties, second homes, etc.
Professional: Restaurants, small hotels, stores, workshops, small industries, etc.

Innovation
DRAINBOX is the advanced, specific solution created by ESPA for the evacuation of water, from any source (foul water, faecal, water, rainwater, etc.) in all environments; domestic or professional, rural or urban, with complicated or unfavourable drainage conditions.

DRAINBOX collects, stores, treats and drives the water to the drainage level, offering a series of truly outstanding advantages in terms of versatility, installation and performance.

DRAINBOX is based on simple, highly effective drainage technology that enables each pumping kit to be customised with the type of pump that is most suitable for the function and services to be provided.

DRAINBOX is supplied with an innovative tank, and a design that includes a series of novel technical advantages which add up to multiple services that are accumulated for the purpose of customising each installation. Customers can select the input and output pipes, ventilation pipes, emergency evacuation system, retention valve, etc.

Limitations
Maximum temperature of liquid: 40 °C.

Materials
High-density polyethylene deposit (thickness: 6 mm), with base designed to avoid areas of sedimentation; PVC accessories and elastomers in EPDM.

Equipments
Supplied with 10 m H07 RNF cable from the pump to the electrical panel.

Control box
Drainbox 300 1400:
1~ 230V box with
mode operation switch for manual or automatic.

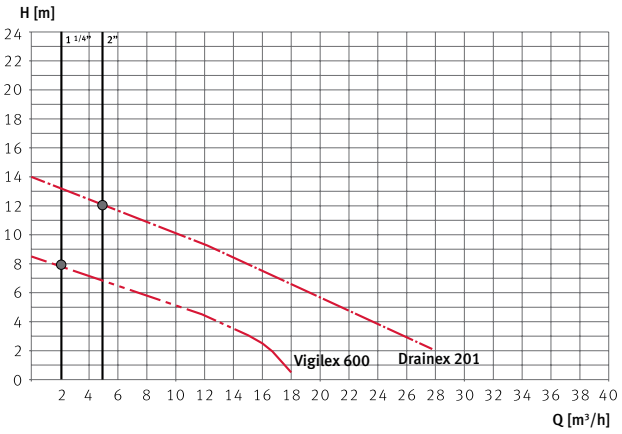
* Electropump included in the price

Hydraulic performance table and prices

Model	Pump	I [A]		P1 [kW]		P2		Ø Free flows	Ø Connection	Q max. [l/min]	1~230 V (Model M A)		1~230 V (Model M)		3~400 V (Model T)		Discount cat.
		1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]				Code	Price €	Code	Price €	Code	Price €	
DBOX300800MATP	Vigilex 600M A	3,4		0,8		0,6	0,8	24	1¼"	240	125485	**1.050,00**					E1
DBOX3001400MTPKE-D201M	Drainex 201 M	6,2	2,6	1,4	-	1,1	1,5	45	2"	450			148154	**1.902,00**			E1
DBOX3001400MTPKE-D201	Drainex 201	-	2,6	-	1,4	2 x 1,1	2 x 1,5	45	2"	450					148158	**2.167,00**	E1

Drainbox 300 Drainage

Performance curves at 2900 rpm



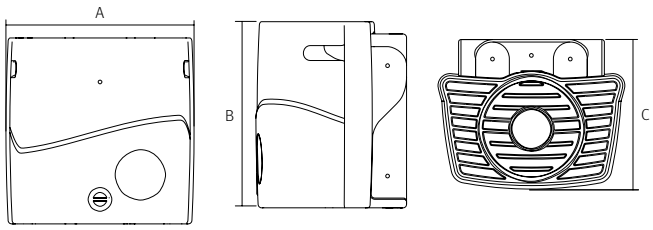
● Minimum flow for preventing particles from acculating in the pipes

Vigilex M A

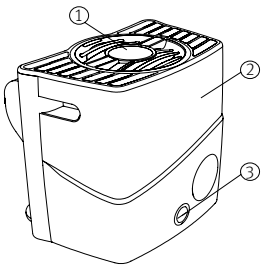
Drainex M/T

Dimensions and weights

Model	A	B	C	Kg
Drainbox 300 800	770	760	615	28,1
Drainbox 300 1400	770	760	615	55



1 pump - 1 Tank of 300 liters - Packaging kit - Control Panel



1 Tank cover - 2 Tank - 3 Drain plug

Characteristics

Model	Total volume	Storage volume	Ø Spigot	Incoming connection	Pre-marked inlets	Flow collector connection	Ø Ventilation outlet	Discharge outlet
Drainbox 300	240 l	70	415 mm	DN100 (110 mm)	2 sup + 2 lat	63 mm	63 mm	2"

ESPA
Innovative Solutions

55
Since 1962

WATER SUPPLY
SURFACE HORIZONTAL & VERTICAL

Prisma 15/25 Surface Horizontal

Quiet running multi-stage centrifugal pumps

Applications
To work with clean water in domestic applications, irrigation, and hydropneumatic sets.

Materials
Pump body and impellers in AISI 304 stainless steel.
Motor shaft in AISI 420 stainless steel.
Diffusers in technopolymer.
Suction and discharge mountings in cast iron.
Mechanical seal in graphite and alumine.
Gaskets in EPDM and NBR.
Motor casing in aluminium.

Motor
Asynchronous, 2 poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase version with built-in thermal protection.

Limitations
Maximum liquid temperature: 40 °C.

Prisma 15/25

Prisma 25/6

Hydraulic performance table and prices

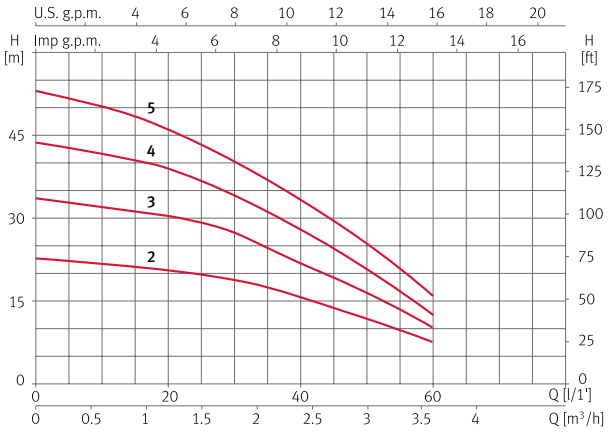
Model	I [A]			P1 [kW]		P2		c	l/min	10	20	30	35	40	50	60	65	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	0,6	1,2	1,8	2,1	2,4	3,0	3,6	3,9	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Prisma 15 3	2,74	2,1	1,21	0,61	0,61	0,37	0,5	12	mwc	32	30	26	24	22	17	10,5	7	97141	**201,00**	**E3**	97138	**215,00**	E1
Prisma 15 4	3,53	2,3	1,3	0,79	0,7	0,55	0,75	12		43	39	35	32	27	21,5	14	9	97150	**228,00**	**E3**	97148	**228,00**	E1
Prisma 15 5	4,13	3,3	1,9	0,95	0,95	0,70	0,9	12		51	47	42	38	34	25	17	12	97159	**243,00**	**E3**	97157	**243,00**	E1

Model	I [A]			P1 [kW]		P2		c	l/min	15	30	45	60	75	90	105	120	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	0,9	1,8	2,7	3,6	4,5	5,4	6,3	7,2	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Prisma 25 3	5,5	3,5	2	1,2	1	0,75	1	16	mwc	33	32	30,5	28	26	22	17	12	97178	**359,00**	E1	97175	**359,00**	E1
Prisma 25 4	6,8	4,3	2,5	1,5	1,4	0,92	1,25	16		43	42	40	37	33	28	22	15	97188	**317,00**	E2	97185	**344,00**	E1
Prisma 25 5	7,4	5,2	3	1,7	1,7	1,1	1,5	25		56	55	52,5	48	43	37	29	20	97196	**367,00**	E2	97194	**355,00**	E1

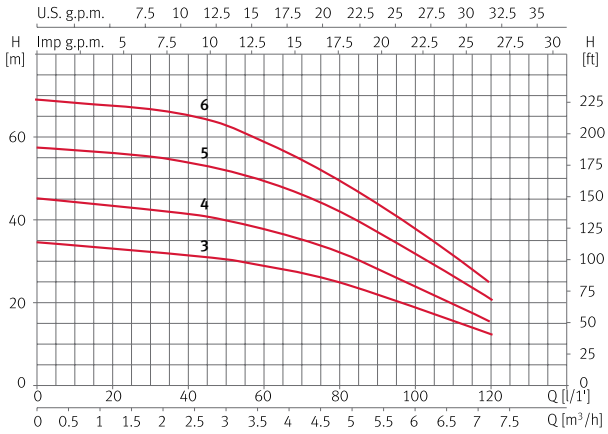
Prisma 15/25 Surface Horizontal

Performance curves at 2900 rpm

Prisma 15



Prisma 25

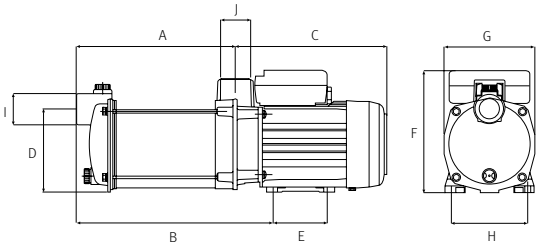


Dimensions and weights

Prisma 15

Model	A	B	C	D	E	F	G	H	I	J	Kg
Prisma 15 2	163	213	202	110	74	162	121	102	1"	1"	8,3
Prisma 15 3	187	237	202	110	74	162	121	102	1"	1"	9,2
Prisma 15 4	211	261	202	110	74	162	121	102	1"	1"	10
Prisma 15 5	235	285	202	110	74	162	121	102	1"	1"	11

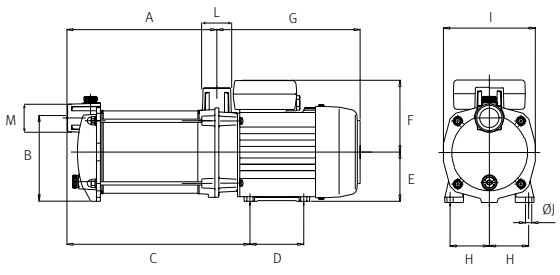
Prisma 15



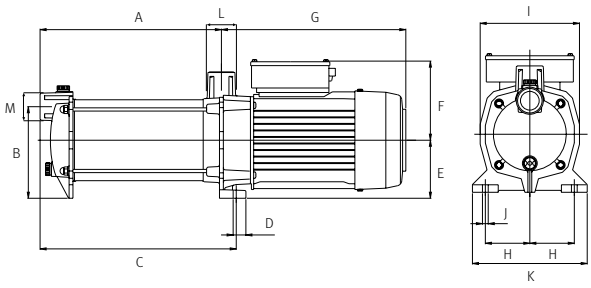
Prisma 25

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Kg
Prisma 25 3	202	127	252,5	82	75	109,5	218	59	138	8		1"	1"	13,5
Prisma 25 4	228,5	127	279	82	75	109,5	218	59	138	8		1"	1"	14,6
Prisma 25 5	255	127	328	82	75	109,5	240,5	59	138	8		1"	1"	17,2
Prisma 25 6	281	142	304	20	89,5	122	286	69	154	10	178	1"	1"	20

Prisma 25 3/4/5



Prisma 25 6



Prisma 35N/45N Surface Horizontal

Quiet running multi-stage centrifugal pumps

Applications
For domestic and industrial supply.
Irrigation and hydropneumatic sets.

Materials
Pump body and impellers in stainless steel AISI 304.
Motor shaft in stainless steel AISI 420.
Diffusers in technopolymer.
Suction and discharge mountings in cast iron.
Mechanical seal in graphite and alumine.
O-rings in EPDM and NBR.
Motor housing in aluminium.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase version with built-in thermal protection.
Efficiency IE3.

Limitations
Maximum liquid temperature: 40 °C.

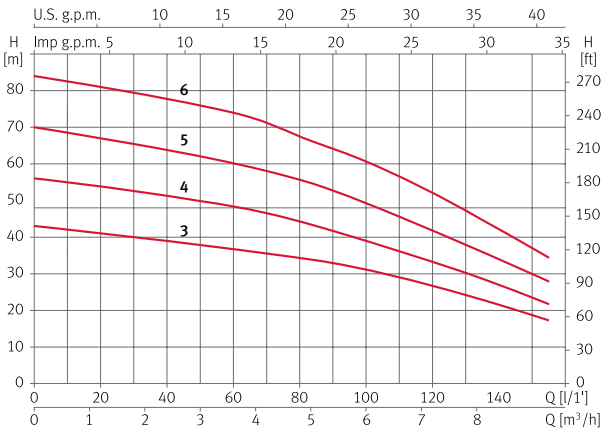
Hydraulic performance table and prices

Model	I [A]			P1 [kW]		P2		c	l/min	20	40	60	80	100	120	140	150	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,2	2,4	3,6	4,8	6,0	7,2	8,4	9,0	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Prisma 35 3N	6,7	4,5	2,6	1,5	1,4	0,8	1	25	mwc	41	39	36	34	31	27	22	18	129343	**539,00**	E1	129346	**539,00**	E1
Prisma 35 4N	8,4	5,3	3,1	1,8	1,8	1,1	1,5	25		54	51	48	44	39	33	27	23	129344	**566,00**	E1	129347	**566,00**	E1
Prisma 35 5N	10,2	6,9	4	2,3	2,2	1,5	2	30		68	64	60	55	49	41	34	30	129345	**624,00**	E1	129348	**624,00**	E1
Prisma 35 6N		8,3	4,8		2,7	2,2	3			81	78	74	67	60	52	42	37				129349	**653,00**	E1

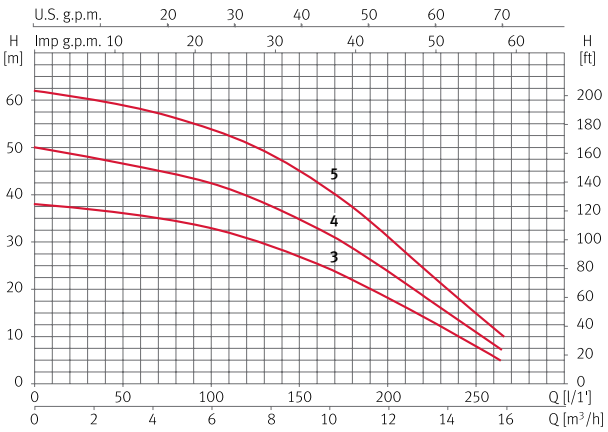
Model	I [A]			P1 [kW]		P2		c	l/min	25	50	75	100	125	150	200	250	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,5	3,0	4,5	6,0	7,5	9,0	12	15	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Prisma 45 3N	7,9	5,2	3	1,8	1,7	1,1	1,5	25	mwc	37	36	35	33	30	27	18	8	132082	**632,00**	E1	132084	**581,00**	E1
Prisma 45 4N	10	6,9	4	2,2	2,2	1,5	2	30		48	47	45	42	39	36	24	11	132083	**687,00**	E1	132085	**646,00**	E1
Prisma 45 5N		8,6	5		2,8	2	3			61	59	56	54	50	45	31	15				132086	**733,00**	E1

Performance curves at 2900 rpm

Prisma 35N



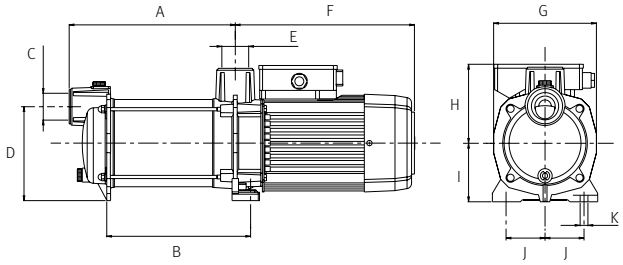
Prisma 45N



Dimensions and weights

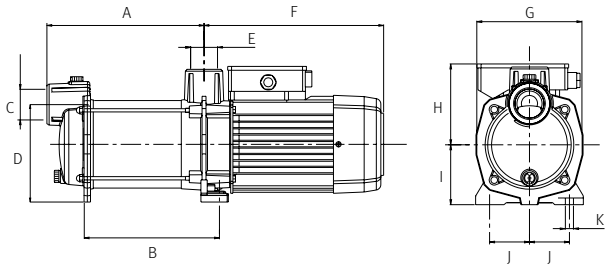
Prisma 35N

Model	A	B	C	D	E	F	G	H	I	J	K	Kg
Prisma 35 3	221,1	187,3	1¼"	147	1¼"	281,5	158	125,3	90	60	12	18,5/18,2
Prisma 35 4	246,6	211,8	1¼"	147	1¼"	281,5	158	125,3	90	60	12	20,5/18,6
Prisma 35 5	271,1	236,3	1¼"	147	1¼"	281,5	158	125,3	90	60	12	23,5/20,6
Prisma 35 6	295,6	260,8	1¼"	147	1¼"	281,5	158	125,3	90	60	12	23,7



Prisma 45N

Model	A	B	C	D	E	F	G	H	I	J	K	Kg
Prisma 45 3	245,9	211,6	1½"	152	1¼"	281,5	158	125,3	90	60	12	22,6/18,6
Prisma 45 4	276,6	242,3	1½"	152	1¼"	281,5	158	125,3	90	60	12	23,7/21,2
Prisma 45 5	307,3	273	1½"	152	1¼"	281,5	158	125,3	90	60	12	25,3



Aspri 15/25 Surface Horizontal

Quiet running multi-stage centrifugal pumps

Applications
To work with clean water in domestic applications, irrigation and hydropneumatic sets.

Materials
Pump body and impellers in stainless steel AISI 304.
Motor shaft in stainless steel AISI 420.
Diffusers in technopolymer.
Suction and discharge connections in brass.
Mechanical seal in graphite and alumine.
Motor housing in aluminium.
Built-in self-priming valve.
O-rings in EPDM and NBR.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase with built-in thermal protection.
Efficiency IE3.

Limitations
Maximum suction lift: 9 m.
Maximum liquid temperature: 40 °C.

Hydraulic performance table and prices

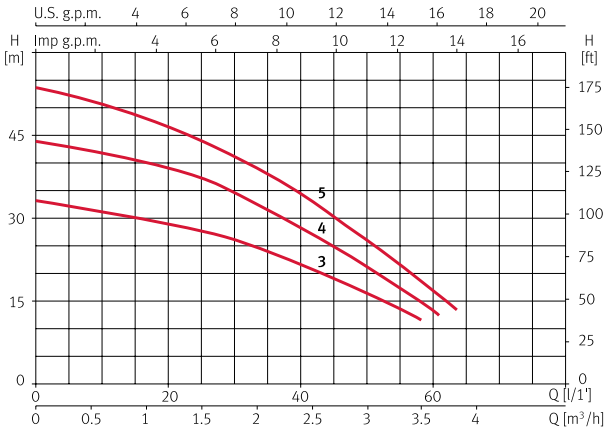
Model	I [A]			P1 [kW]		P2		c	l/min	5	10	20	30	35	40	50	60	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	0,3	0,6	1,2	1,8	2,1	2,4	3,0	3,6	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Aspri 15 3	2,74	2,1	1,21	0,61	0,61	0,37	0,5	12	mwc	33	32	30	26	24	22	17		96415	**240,00**	**E3**	**96412**	**238,00**	**E1**
Aspri 15 4	3,53	2,3	1,3	0,7	0,7	0,55	0,75	12		44	43	39	35	32	27	21,5		96423	**254,00**	**E3**	96421	**252,00**	**E1**
Aspri 15 5	4,13	3,3	1,9	0,95	0,95	0,75	1,0	12		53	51	47	42	38	34	25	17	96432	**272,00**	**E3**	96430	**269,00**	**E1**

Model	I [A]			P1 [kW]		P2		c	l/min	17	33	50	67	83	100	113	120	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,0	2,0	3,0	4,0	5,0	6,0	6,8	7,2	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Aspri 25 3	5,5	3,5	2	1,2	1	0,75	1	16	mwc	33	32	31	28,5	23,8	18	13,5	12	96450	**376,00**	**E1**			
Aspri 25 4	6,8	4,3	2,5	1,5	1,4	0,92	1,25	16		43,5	42,2	40,2	36	30,2	23,8	17,8	15	96458	**405,00**	**E3**	96455	**400,00**	**E1**
Aspri 25 5	7,4	5,2	3	1,7	1,7	1,1	1,5	25		55,8	54,2	51,8	46,2	40	31,7	24	20	96466	**491,00**	**E3**	96464	**480,00**	**E1**

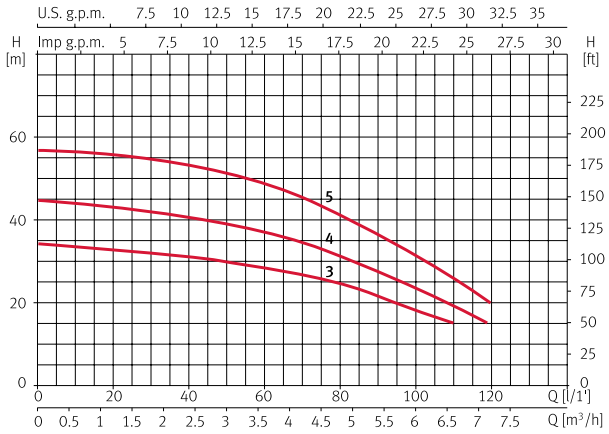
Aspri 15/25 Surface Horizontal

Performance curves at 2900 rpm

Aspri 15



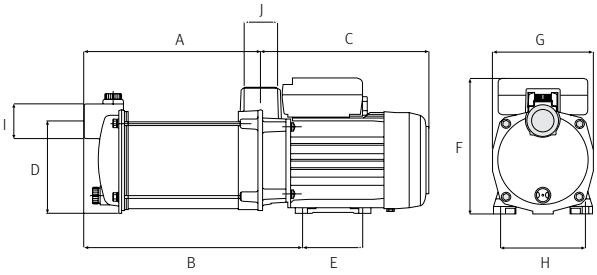
Aspri 25



Dimensions and weights

Aspri 15

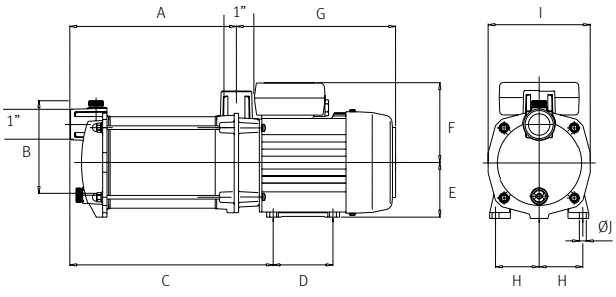
Model	A	B	C	D	E	F	G	H	I	J	Kg
Aspri 15 3	187	237	202	110	74	162	121	102	1"	1"	9,2
Aspri 15 4	211	261	202	110	74	162	121	102	1"	1"	10
Aspri 15 5	235	285	202	110	74	162	121	102	1"	1"	11



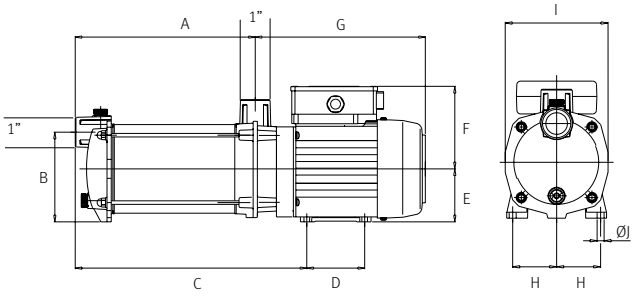
Aspri 25

Model	A	B	C	D	E	F	G	H	I	J	Kg
Aspri 25 3	202	127	252	82	75	109,5	218	59	138	8	12,3
Aspri 25 4	229	127	279	82	75	109,5	218	59	138	8	13,4
Aspri 25 5	255	127	328	82	75	109,5	241	59	138	8	19

Aspri 25 3/4



Aspri 25 5



Aspri 35N/45N Surface Horizontal

Quiet running multi-stage centrifugal pumps

Applications
To work with clean water in domestic and industrial applications, irrigation and hydropneumatic sets.

Materials
Pump body and impellers in stainless steel AISI 304.
Diffusers in technopolymer.
Suction and discharge connections in cast iron.
Mechanical seal in graphite and alumine.
Built-in self priming valve.
O-rings in EPDM and NBR.
Aspri 35N:
Motor shaft in stainess steel AISI 420 and steel F-114.
Motor housing in aluminium L-2521.
Aspri 45N:
Motor shaft in stainess steel AISI 420.
Motor housing in aluminium L-2521.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Efficiency IE3.

Limitations
Maximum suction lift: 9 m.
Maximum temperature of liquid: 40 °C.

Hydraulic performance table and prices

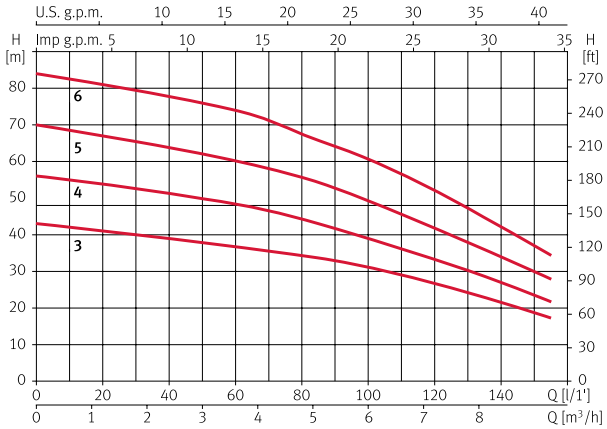
Model	I [A]			P1 [kW]		P2		c	l/min	20	40	60	80	100	120	140	150	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,2	2,4	3,6	4,8	6,0	7,2	8,4	9,0	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Aspri 35 3 N	6,7	4,5	2,6	1,5	1,4	0,8	1	25	mwc	41	39	36	34	31	27	22	18	129699	**560,00**	**E1**	**129696**	**557,00**	**E1**
Aspri 35 4 N	8,4	5,3	3,1	1,8	1,8	1,1	1,5	25		54	51	48	44	39	33	27	23	129700	**612,00**	**E1**	129697	**582,00**	**E1**
Aspri 35 5 N	10,2	6,9	4	2,3	2,2	1,5	2	30		68	64	60	55	49	41	34	30	129701	**665,00**	**E1**	129698	**635,00**	**E1**
Aspri 35 6 N		8,3	4,8		2,7	2,2	3			81	78	74	67	60	52	42	37				130368	**715,00**	**E1**

Model	I [A]			P1 [kW]		P2		c	l/min	25	50	75	100	125	150	200	250	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,5	3,0	4,5	6,0	7,5	9,0	12	15	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Aspri 45 3 N	7,9	5,2	3	1,8	1,7	1,1	1,5	25	mwc	37	36	35	33	30	27	18	8	132087	**633,00**	**E1**	**132089**	**596,00**	**E1**
Aspri 45 4 N	10	6,9	4	2,2	2,2	1,5	2	30		48	47	45	42	39	36	24	11	132088	**698,00**	**E1**	132090	**674,00**	**E1**
Aspri 45 5 N		8,6	5		2,8	2	3			61	59	56	54	50	45	31	15				132091	**742,00**	**E1**

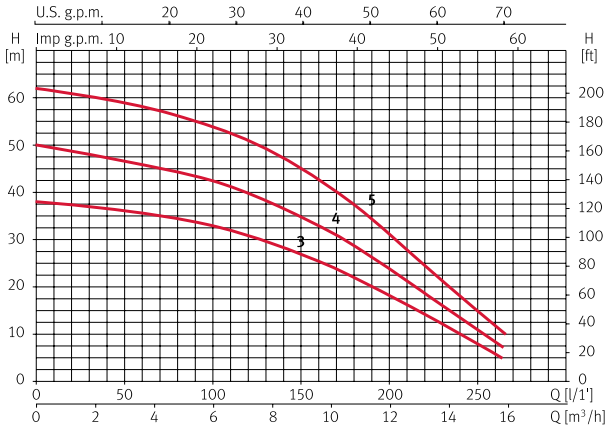
Aspri 35N/45N Surface Horizontal

Performance curves at 2900 rpm

Aspri 35N



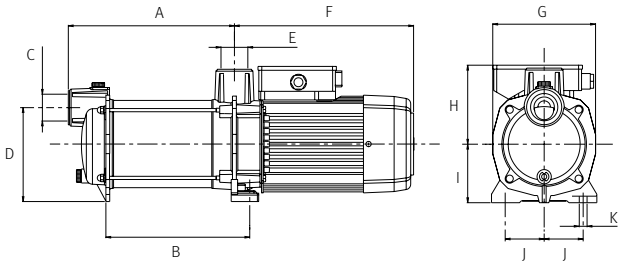
Aspri 45N



Dimensions and weights

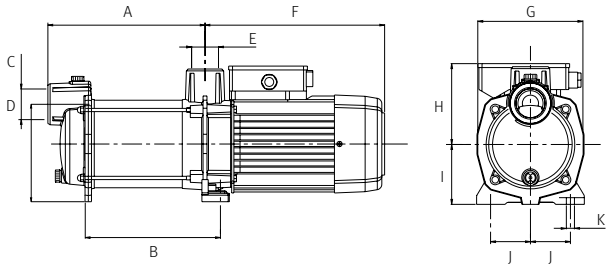
Aspri 35N

Model	A	B	C	D	E	F	G	H	I	J	Kg
Aspri 35 3 N	221,1	187,3	1¼"	147	1¼"	281,5	158	125,3	90	12	18,5/18,2
Aspri 35 4 N	246,6	211,8	1¼"	147	1¼"	281,5	158	125,3	90	12	20,5/18,6
Aspri 35 5 N	271,1	236,3	1¼"	147	1¼"	281,5	158	125,3	90	12	23,5/20,6
Aspri 35 6 N	295,6	260,8	1¼"	147	1¼"	281,5	158	125,3	90	12	23,7



Aspri 45N

Model	A	B	C	D	E	F	G	H	I	J	K	Kg
Aspri 45 3 N	245,9	211,6	1½"	152	1¼"	281,5	158	125,3	90	60	12	22,6/18,6
Aspri 45 4 N	276,6	242,3	1½"	152	1¼"	281,5	158	125,3	90	60	12	23,7/21,2
Aspri 45 5 N	307,3	273	1½"	152	1¼"	281,5	158	125,3	90	60	12	25,3



Tecno 05/15/25 Surface Horizontal

Quiet running horizontal multi-stage centrifugal pumps

Applications
To work with clean water in domestic applications, irrigation and pressure sets.

Materials
Pump body and impellers in stainless steel AISI 304.
Diffusers in technopolymer.
Mechanical seal in graphite and steatite.
Tecno 05:
O-rings in EPDM and NBR.
Pump base, motor flange and motor housing in aluminium.
Tecno 15/25:
Motor shaft in stainess steel AISI 431.
Motor housing in aluminium.
Gaskets in EPDM/NBR.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase with built-in thermal protection.
Efficiency IE3.

Limitations
Maximum temperature of liquid: 40 °C.

Hydraulic performance table and prices

Model	I [A]	P1 [kW]	P2		c	l/min	5	10	15	20	25	30	35	37,5	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,25	Code	Price €	Discount cat.
Tecno 05 3	1,6	0,35	0,19	0,25	6	mwc	27,5	26	23,2	20,1	17,2	12,5	7,4	4	97505	**214,00**	**E1**
Tecno 05 4	2	0,45	0,19	0,25	6		36	33,5	30	26,5	21,5	16	10	7	97508	**227,00**	**E4**

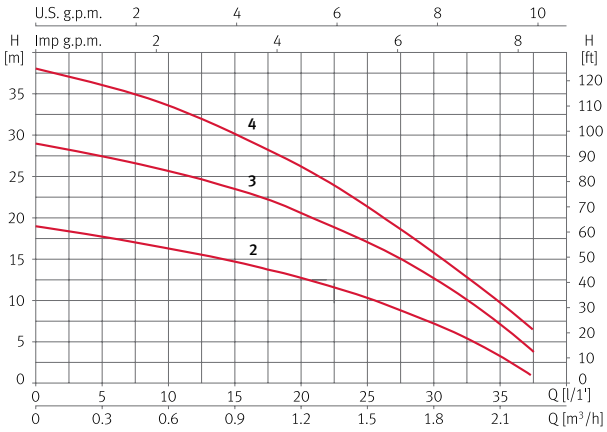
Model	I [A]	P1 [kW]	P2		c	l/min	10	20	30	35	40	50	60	65	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0,6	1,2	1,8	2,1	2,4	3,0	3,6	3,9	Code	Price €	Discount cat.
Tecno 15 3	2,74	0,61	0,37	0,5	12	mwc	32	30	26	24	22	17	10,5	7	97518	**245,00**	**E3**
Tecno 15 4	3,53	0,79	0,55	0,75	12		43	39	35	32	27	21,5	14	9	97520	**271,00**	**E3**
Tecno 15 5	4,13	0,95	0,70	0,9	12		51	47	42	38	34	25	17	12	97522	**322,00**	**E3**

Model	I [A]	P1 [kW]	P2		c	l/min	15	30	45	60	75	90	105	120	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0,9	1,8	2,7	3,6	4,5	5,4	6,3	7,2	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Tecno 25 3	5,5	1,2	0,75	1	16	mwc	33	32	30,5	28	26	22	17	12	97526	**383,00**	**E3**			
Tecno 25 4	6,8	1,5	0,92	1,25	16		43	42	40	37	33	28	22	15	97528	**409,00**	**E3**	97527	**409,00**	**E3**
Tecno 25 5	8,2	1,8	1,1	1,5	25		56	55	52,5	48	43	37	29	20	97530	**504,00**	**E3**	97529	**504,00**	**E3**

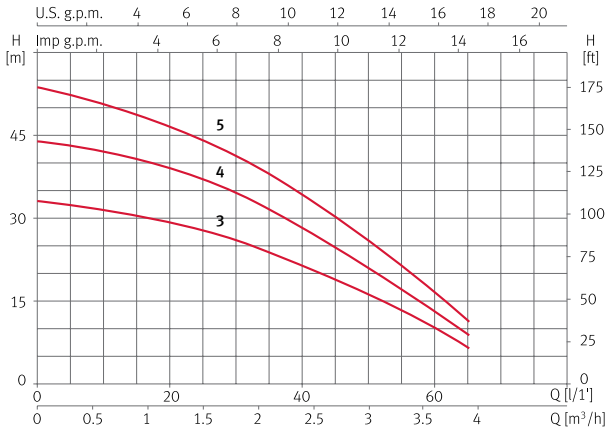
Tecno 05/15/25 Surface Horizontal

Performance curves at 2900 rpm

Tecno 05



Tecno 15



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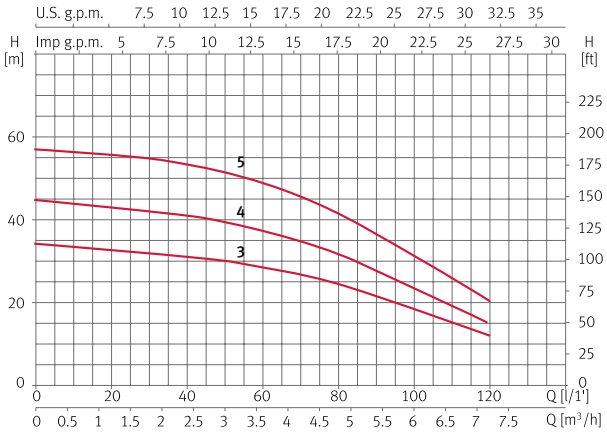
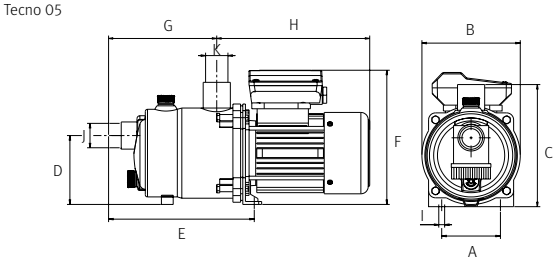


Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	J	K	Kg
Tecno 05 2	80	136	157,5	94	176,3	174	123,8	225	9	1"	1"	5,2
Tecno 05 3	80	136	157,5	94	194,2	174	141,7	225	9	1"	1"	6,2
Tecno 05 4	80	136	157,5	94	211,5	174	159	225	9	1"	1"	6,3
Tecno 15 3	197,4	107,5	258	181,5	232,5	196,3	148,5	88	9	1"	1"	7,2
Tecno 15 4	220,7	107,5	281,3	181,5	232,5	196,3	148,5	88	9	1"	1"	9,5
Tecno 15 5	244	107,5	304,6	181,5	232,5	196,3	148,5	88	9	1"	1"	11
Tecno 25 3	210	107,5	271,5	267	190,5	148,5	196,3	88	9	1"	1"	7,2
Tecno 25 4	236,6	107,5	298,1	267	190,5	148,5	196,3	88	9	1"	1"	9,5
Tecno 25 5	263,2	107,5	324,7	288,5	190,5	148,5	196,3	88	9	1"	1"	11

Tecno 05



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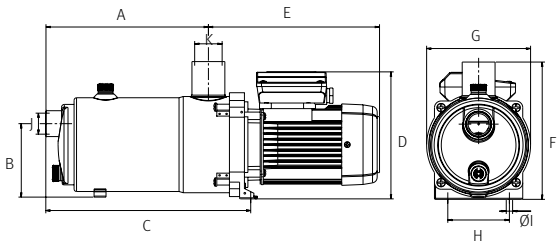

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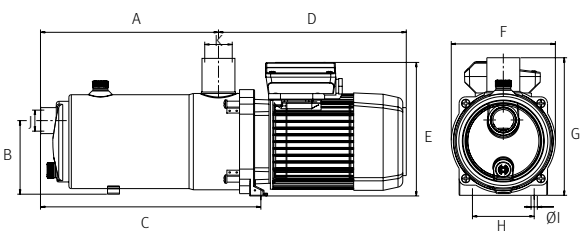


Tecnoself Surface Horizontal

Quiet running horizontal multi-stage centrifugal pumps

Applications
To work with clean water in domestic applications, irrigation, and pressure sets.
Tecnoself 25: version for use with nitrate solution for fertigation available on request for a surcharge

Materials
Pump body and impellers in stainless steel AISI 304.
Diffusers in technopolymer.
Mechanical seal in graphite and steatite.
O-rings in EPDM and NBR.
Motor shaft in stainess steel AISI 420.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase with built-in thermal protection.
Efficiency IE3.

Limitations
Maximum temperature of liquid: 40 °C.
Self-priming version with self-priming valve resistant to small impurities.

Stainless steel impeller

Hydraulic performance table and prices

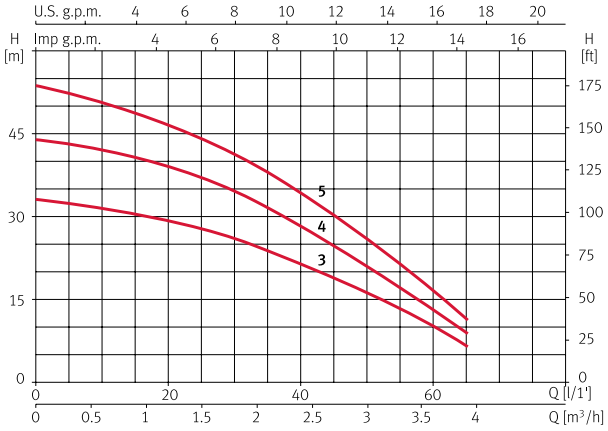
Model	I [A]	P1 [kW]	P2		[µF]	l/min	10	20	30	35	40	50	60	65	1~230 V (Model M)		
	1~ 230 V	1~	[kW]	[HP]		m³/h	0,6	1,2	1,8	2,1	2,4	3,0	3,6	3,9	Code	Price €	Discount cat.
Tecnoself 15 3	2,74	0,61	0,37	0,5	12	mwc	32	30	26	24	22	17	10,5	7	97557	**265,00**	**E3**
Tecnoself 15 4	3,53	0,79	0,55	0,75	12		43	39	35	32	27	21,5	14	9	97561	**280,00**	**E3**
Tecnoself 15 5	4,13	0,95	0,75	1,0	12		51	47	42	38	34	25	17	12	97565	**331,00**	**E3**

Model	I [A]			P1 [kW]		P2		[µF]	l/min	15	30	45	60	75	90	105	120	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~		1~	3~	[kW]	[HP]		m³/h	0,9	1,8	2,7	3,6	4,5	5,4	6,3	7,2	Code	Price €	Discount cat.	Code	Price €	Discount cat.
		230 V	400V																				
Tecnoself 25 3	5,5			1,2		0,75	1	16	mwc	33	32	30,5	28	26	22	17	12	97573	**410,00**	**E3**			
Tecnoself 25 4	6,8	4,3	2,5	1,5	1,4	0,92	1,25	16		43	42	40	37	33	28	22	15	97577	**438,00**	**E3**	97575	**438,00**	**E3**
Tecnoself 25 5	8,2	5,2	3	1,8	1,7	1,1	1,5	25		56	55	52,5	48	43	37	29	20	97581	**541,00**	**E3**	97579	**541,00**	**E3**

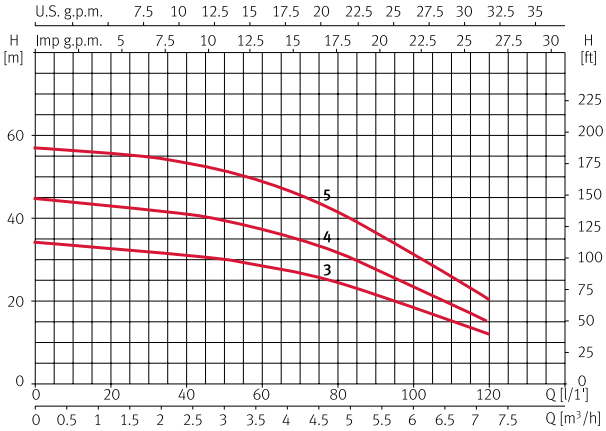
The 25 4 and 25 5 models are also available in three-phase versions at the same price as the single phase version

Performance curves at 2900 rpm

Tecnoself 15



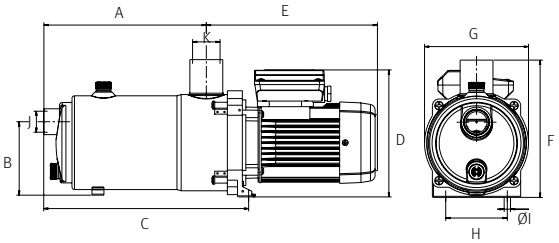
Tecnoself 25



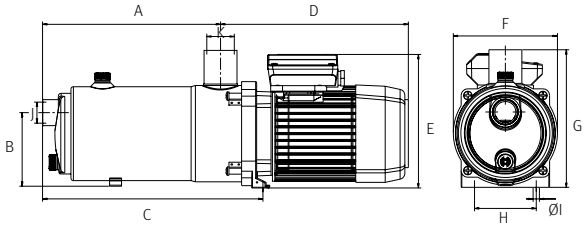
Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	J	K	Kg
Tecnoself 15 3	197,4	107,5	258	181,5	232,5	196,3	148,5	88	9	1"	1"	7,2
Tecnoself 15 4	220,7	107,5	281,3	181,5	232,5	196,3	148,5	88	9	1"	1"	9,5
Tecnoself 15 5	244	107,5	304,6	181,5	232,5	196,3	148,5	88	9	1"	1"	11
Tecnoself 25 3	210	107,5	271,5	267	190,5	196,3	148,5	88	9	1"	1"	7,2
Tecnoself 25 4	236,6	107,5	298,1	267	190,5	196,3	148,5	88	9	1"	1"	9,5
Tecnoself 25 5	263,2	107,5	324,7	288,5	190,5	196,3	148,5	88	9	1"	1"	11

Tecnoself 15



Tecnoself 25



Delta Surface Horizontal

Self-priming centrifugal pumps with Venturi system up to 9 m

Applications
To work with clean water.
Irrigation and hydropneumatic sets.

Motor
Asynchronous, two poles.
IP 44 protection.
Class F insulation.
Continuous operation.
Single phase version with built-in thermal protection.
Provided with removable handle for transport.

Materials
Pump body in stainless steel AISI 304.
Motor shaft in stainless steel AISI 420.
Diffusers in glass loaded Noryl®.
Mechanical seal in graphite and steatite.
Motor housing in aluminium L-2521.
Windings with epoxy resin.
Delta 505/755/1005:
Impeller in glass loaded Noryl®.
Delta 1755:
Impeller in stainless steel AISI 304.

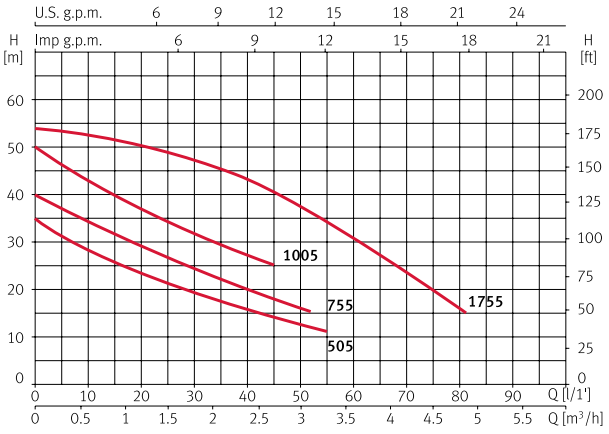
Limitations
Maximum suction lift: 9 m.
Maximum temperature of liquid: 40 °C.

Hydraulic performance table and prices

Model	I [A]			P1 [kW]		P2		[µF]	l/min	5	15	25	35	40	50	60	75	1~230 V (Model M)			3~230/400 V * (Model T)		
	1~ 230 V	3~ 230 V	3~ 400V	1~	3~	[kW]	[HP]		m³/h	0,3	0,9	1,5	2,1	2,4	3,0	3,6	4,5	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Delta 505	2,8	2,2	1,2	0,6	0,6	0,37	0,5	12	mwc	33	26	22	18	17	13			146271	**274,00**	**E1**			
Delta 755	3,4	2,6	1,3	0,8	0,8	0,5	0,72	12		37	32	27	23	21	17			146270	**279,00**	**E1**			
Delta 1005	4,8	3,3	1,9	1,0	1,0	0,75	1,0	16		47	40	34	29	27				146018	**303,00**	**E1**	146061	**303,00**	E1
Delta 1755	5,5	3,8	2,1	1,2	1,2	0,75	1,0	16		57	55	51	47	44	38	32	21	146017	**398,00**	**E1**	146261	**398,00**	E1

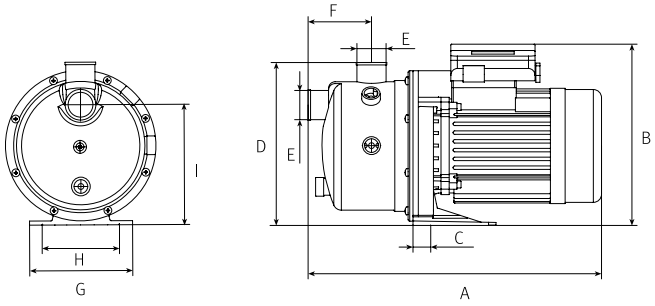
* Three-phase versions available on request

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	Kg
Delta 505	336	215	22	200	1"	78	126	94	147	6.8
Delta 755	336	215	22	200	1"	78	126	94	147	7.3
Delta 1005	359	225	22	200	1"	78	126	94	147	9.6
Delta 1755M	410	225	22	200	1"	78	126	94	147	12.1



Per Surface Horizontal

Peripheral pump for espres pressurisation units

Applications
Peripheral positive displacement pumps with frontal pumps for small household systems and simple industrial applications; characterised by a considerable ratio between performance and required output.

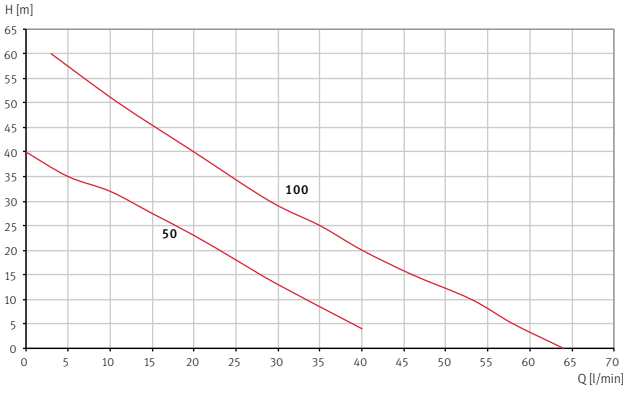
Motor
Class F insulation.
IP 44 protection.
Continuous operation.
Single-phase with built-in thermal protection.

Materials
Pump body in cast iron.
Impeller in brass.
Motor shaft in stainless steel AISI 416.
Mechanical seal in graphite and ceramic.

Hydraulic performance table and prices

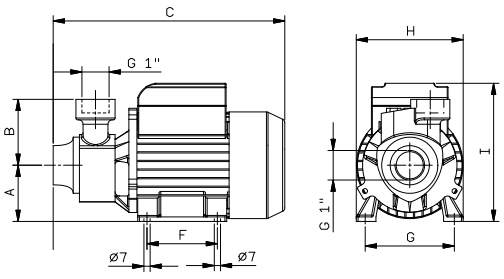
Model	I [A]		P2		[µF]	l/min	0	5	10	15	20	25	30	40	50	60	1~230 V (Model M)			3~230 V (Model T)		
	1~230 V	3~230 V	[kW]	[HP]		m³/h	0	0,3	0,6	0,9	1,2	1,5	1,8	2,4	3	3,6	Code	Price €	Discount cat.	Code	Price €	Discount cat.
PER 50M	2,5		0,5	0,37	2,5	mwc	40	35	32	27,5	23	18	13	4			PER50M	**114,00**	**E3**			
PER 100		2,4	1	0,55			64	58	54	46	40	35	29	20	11	3				PER100	**200,00**	**E1**
PER 100M	5,6		1	0,75	5,6		64	58	54	46	40	35	29	20	11	3	PER100M	**178,00**	**E1**			

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	F	G	H	I	DNA	DNM	Kg
PER 50M	63	92	250	80	17,5	100	63	1"	1"	6,1
PER 100	71	102	294	90	17,5	112	71	1"	1"	9,9
PER 100M	71	102	294	90	17,5	112	71	1"	1"	9,9



NP Surface Horizontal

Cast-iron self-priming electric pumps

Applications
Use with clean water.

Motor
IP 44 protection.
Class F insulation.
Continuous operation.
Single-phase motor, built-in thermal protection.

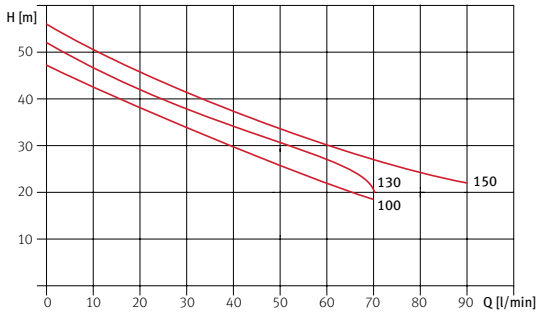
Materials
Pump body in cast iron.
Impellers in bronze (Noryl for models 100 and 150).
Mechanical seal in graphite/ceramica.
Motor shaft in stainless steel in AISI 304.

Hydraulic performance table and prices

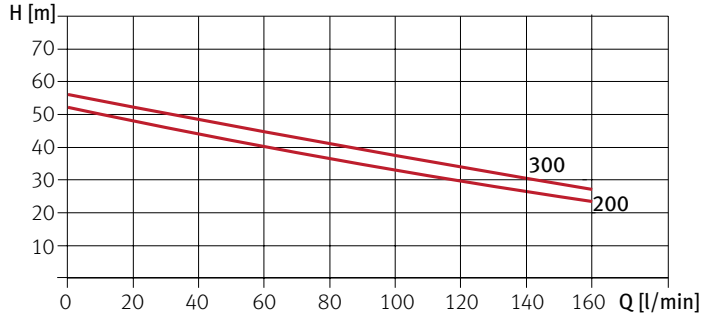
Model	P2		I (A)		l/min	0	10	20	30	40	50	60	70	80	100	120	140	160	Code	Price €	Discount cat.
	Hp	kW	1~230 V	3~400 V	m³/h	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	6	7,2	8,4	9,6			
NP 100M	1,0	0,75	4,8		mwc	48	43	38	34	29	25	22	19						NP100M	**216,00**	E3
NP 130M	1,3	0,97	5,2			53	48	42	38	34	30	26	20						NP130M	**250,00**	E3
NP 150M	1,5	1,1	7			56	51	44	40	36	33	30	27	25					NP150M	**385,00**	E2
NP 100	1,0	0,75		1,8		48	43	38	34	29	25	22	19						NP100	**228,00**	E1
NP 150	1,5	1,1		2,6		56	51	44	40	36	33	30	27	25					NP150	**403,00**	E1
NP 200	2,0	1,5		3,8		53	51	49	46	44	43	41	38	37	34	31	27	24	NP200	**502,00**	E1
NP 300	3,0	2,2		5		56	54	52	49,5	47,5	45,5	43,5	41,5	40	37	33,5	30	27	NP300	**543,00**	E1

Performance curves at 2900 rpm

NP 100 / 130 / 150

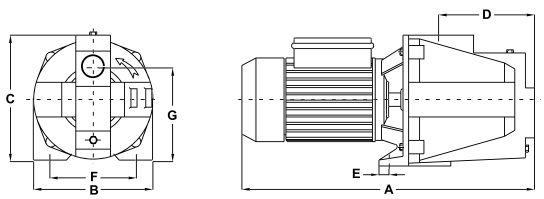


NP 200 / 300



Dimensions and weights

Model	A	B	C	D	E	F	G	DNA	DNM	Kg
NP 100	430	185	195	141	17,5	140	152,5	1"	1"	15,6
NP 130	430	185	195	141	17,5	140	152,5	1"	1"	16,6
NP 150	510	210	220	166	18	166	165	1"1/4	1"	24,6
NP 200	510	210	220	166	18	166	165	1"1/2	1"	26,5
NP 300	510	210	220	166	18	166	165	1"1/2	1"1/4	27,6



ST, SA Surface Horizontal

Single-impeller cast-iron pumps

Applications
Use with clean water.

Motor
IP 44 protection.
Class F insulation.
Continuous operation.
Single-phase motor, built-in thermal protection.
SA open-impeller model for high flow rates.

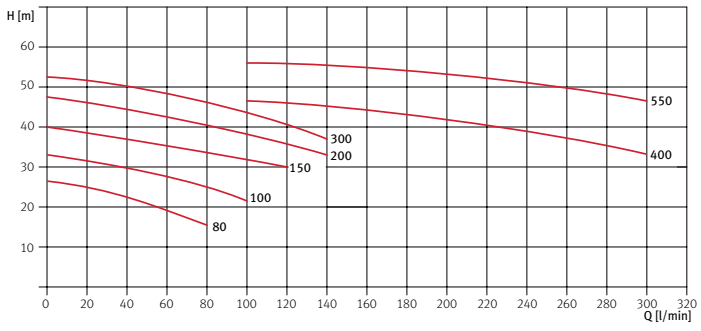
Materials
Pump body and support in cast iron.
Impellers in bronze (Noryl for models ST80-ST).
Mechanical seal in graphite and ceramic.
Motor shaft in stainless steel AISI 416.

Hydraulic performance table and prices

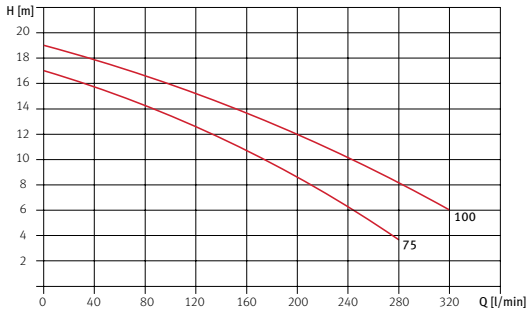
Model	P2		I (A)		l/min	0	20	40	60	80	100	120	140	160	180	200	225	250	275	300	1~230 V (Model M)			3~400 V (Model T)		
	Hp	Kw	1~ 230 V	3~ 400 V	m³/h	0	1,2	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8	12	13,5	15	16,5	18	Code	Price €	Discount cat.	Code	Price €	Discount cat.
ST 80	0,75	0,55	4,5		mwc	26,5	25,5	23	19	15,5											ST080M	**220,00**	**E1**			
ST 100	1	0,75	5,2			33	31	30	28	25	21										ST100M	**231,00**	**E1**			
ST 150	1,5	1,1	8,9	3		40	38,5	36,5	35	33,5	31,5	30									ST150M	**429,00**	**E1**	ST150	**429,00**	**E1**
ST 200	2,0	1,5	11,9	3,8		47,5	45,5	44	43	41	39	36,5	33								ST200M	**486,00**	**E1**	ST200	**450,00**	**E1**
ST 300	3,0	2,2		5,2		52,5	51	49,5	48	46	44	41,5	38											ST300	**474,00**	**E1**
ST 400	4,0	3		8							45,5	45	44,5	44	42,5	41,5	39,5	38	35	33				ST400	**783,00**	**E1**
ST 550	5,5	4		10							56	56	55,5	55	54,5	54	52,5	51	48	46,5				ST550	**814,00**	**E1**
SA 75	0,75	0,55	4,5	0,8		17	-	15,3	-	14	-	12,5	-	10,7	-	8,9	-	6,3			SA75M	**265,00**	**E1**	SA75	**265,00**	**E1**
SA 100	1,0	0,75	5	1,3		19	-	17	-	16	-	14,7	-	13,9	-	13	-	10,8			SA100M	**271,00**	**E1**	SA100	**271,00**	**E1**

Performance curves at 2900 rpm

ST

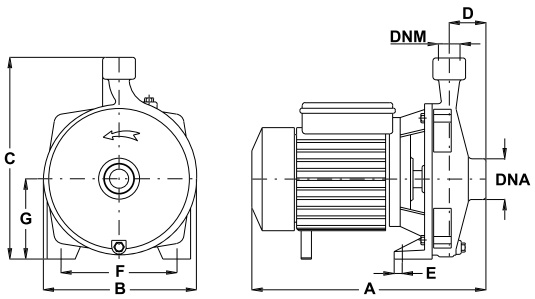


SA



Dimensions and weights

Model	A	B	C	D	E	F	G	DNA	DNM	Kg
ST 80	310	185	250	46	17	140	98,5	1"	1"	12,1
ST 100	310	185	250	46	17	140	98,5	1"	1"	13,7
ST 150	355	225	295	50	20	170	115	1"1/4	1"	19,9
ST 200	355	225	295	50	20	170	115	1"1/4	1"	23,5
ST 300	355	225	295	50	20	170	115	1"1/4	1"	24,3
ST 400	440	250	319	70	14	185	130	2"	1"1/4	36,9
ST 550	440	250	319	70	14	185	130	2"	1"1/4	38,9
SA 75	310	186	235	38	15	140	105	1"1/2	1"1/2	13,9
SA 100	310	186	235	38	15	140	105	1"1/2	1"1/2	14,5



BAT Surface Horizontal

Twin-impeller cast-iron pumps

Applications
Use with clean water.

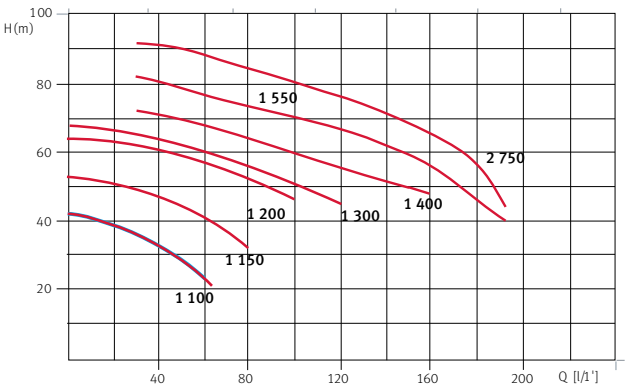
Motor
IP 44 protection.
Class F insulation.
Continuous operation.
Single-phase motor, built-in thermal protection.

Materials
Pump body and support in cast iron.
Impellers in bronze.
Mechanical seal in graphite and ceramic.
Motor shaft in stainless steel AISI 304.

Hydraulic performance table and prices

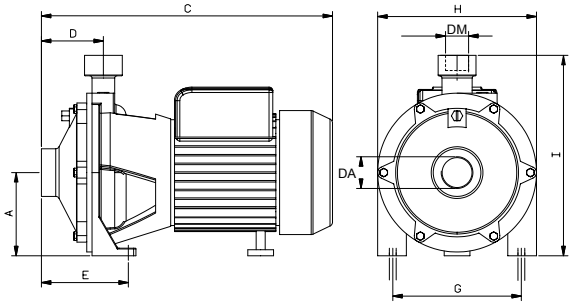
Model	P2		I (A)		l/min	0	15	30	40	60	100	120	140	160	180	200	300	400	500	1~230 V (Model M)			3~400 V (Model T)		
	Hp	kW	1~ 230 V	3~ 400 V	m³/h	0	0,9	1,8	2,4	3,6	6	7,2	8,4	9,6	10,8	12	18	24	30	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Bat1 100	1,0	0,75	5,2	1,8	mwc	41	40	36	32	24										Bat1 100M	**337,00**	E4	Bat1 100T	**337,00**	E4
Bat1 150	1,5	1,1	8	3		51,5	50	48	47	42	36									Bat1 150M	**477,00**	E4	Bat1 150T	**477,00**	E4
Bat1 200	2,0	1,5	11,5	3,8		65	64	62	61	57	48									Bat1 200M	**550,00**	E4	Bat1 200T	**501,00**	E4
Bat1 300	3,0	2,2		5,2		67	66	65	63	61	50	45											Bat1 300	**543,00**	E4
Bat1 400	4,0	3,0		8				72,5	71	67,5	61	56	49,5	43									Bat1 400	**901,00**	E1
Bat1 550	5,5	4,0		10				83	82	78	70	66	66	52	40								Bat1 550	**999,00**	E1
Bat2 750	7,5	5,5		11,5				92,5	91	87	80	75	70	59	42								Bat2 750	**1.098,00**	E1

Performance curves at 2900 rpm



Dimensions and weights

Model	A	C	D	E	G	H	I	DA	DM	Kg
Bat1 100	96,5	345	67	97	156	190	235	1¼"	1"	16,2
Bat1 150	114	375	73,5	103	158	225	270	1¼"	1"	24,2
Bat1 200	114	375	73,5	103	158	225	270	1¼"	1"	26,1
Bat1 300	114	375	73,5	103	158	225	270	1¼"	1"	25,3
Bat1 400	135	463	95,5	125	212	266	305	1½"	1¼"	43,5
Bat1 550	135	463	95,5	125	212	266	305	1½"	1¼"	46,3
Bat2 750	135	463	95,5	125	212	266	305	1½"	1¼"	47



Multi 25/35/55 Surface Vertical

Quiet-running vertical multi-stage centrifugal pumps, supplied with flanges

Applications
Spray irrigation systems, hydropneumatic sets and industrial installations.

Materials
Pump body and impellers in stainless steel AISI 304.
Diffusers in technopolymer.
Mechanical seal in graphite and alumine.
Motor housing in aluminium L-2521.
Flanges, suction and discharge connections in cast iron.
Motor shaft in stainless steel AISI 420.
Multi35N 8 and 10 / **Multi55N 6 and 7**: in stainless steel AISI 303.

Limitations
Temperatura massima del liquido: 40°C.

Equipment
Supplied with oval counter flanges DIN 2558.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Efficiency IE3.
Multi25: Single phase version up to 1.5 HP built-in thermal protection.
Multi35N: Single phase version up to 1 HP built-in thermal protection.

ESPA Eco-Efficient Engineering

ErP READY

Hydraulic performance table and prices

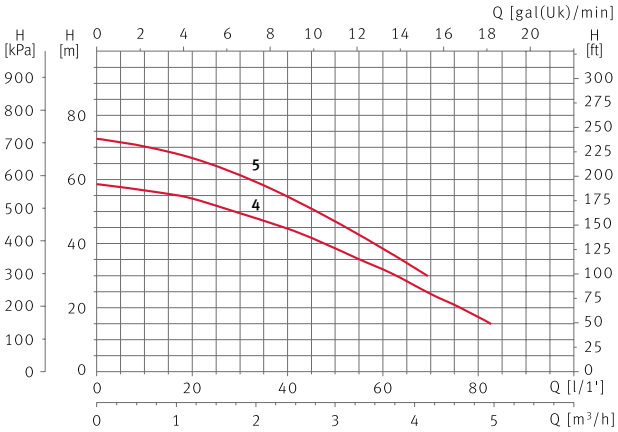
Model	I [A]			P1 [kW]		P2		c	l/min	8	17	25	33	42	58	75	92	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	0,5	1,0	1,5	2,0	2,5	3,5	4,5	5,5	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Multi25 4	5,8	3,9	2,3	1,2	1,1	0,75	1	16	mwc	52,7	51	48,2	45,8	42	33	22	9	134927	**494,00**	**E1**	134930	**494,00**	**E1**
Multi25 5	6,4	4,2	2,5	1,4	1,3	0,9	1,25	16		66,5	64	61,2	57,5	52,5	41	27	12	134928	**529,00**	**E1**	134931	**529,00**	**E1**

Model	I [A]			P1 [kW]		P2		c	l/min	17	33	50	75	100	125	150	175	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	1,0	2,0	3,0	4,5	6,0	7,5	9,0	10,5	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Multi35 3 N	6,7			1,5		0,75	1	25	mwc	39	37,5	35,5	31,5	27	21	15	7	129334	**530,00**	**E1**	129338	**530,00**	**E1**
Multi35 4 N	8,4	5,3	3,1	1,8	1,8	1,1	1,5	25		54	51	48	44	37	29,5	21	11,8	129335	**422,00**	**E1**	129339	**422,00**	**E1**
Multi35 5 N	10,2	6,9	4	2,3	2,2	1,5	2	30		65,4	63,5	60	54,5	46	36	26,2	15	129336	**658,00**	**E1**	129340	**441,00**	**E1**
Multi35 6 N		8,3	4,8		2,7	2,2	3			82	79,5	76	69	61	49	36,7	23				129341	**486,00**	**E1**
Multi35 8 N		11,9	6,5		3,6	3	4			108	105	101	93	85	70	53	35				129342	**843,00**	**E1**
Multi35 10 N		15,4	8,9		4,9	4	5,5			134	130	125	117	105	90	70	47				129337	**1.038,00**	**E1**

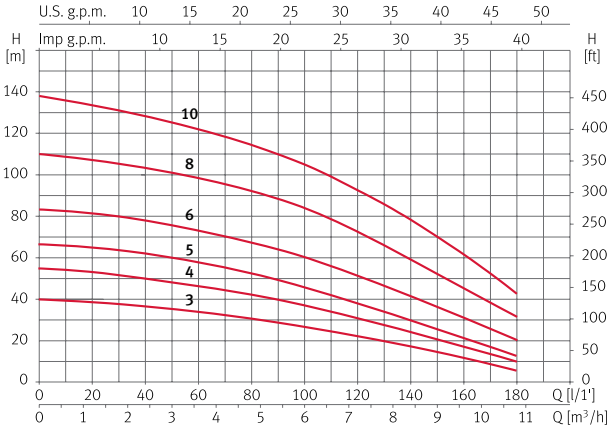
Model	I [A]			P1 [kW]		P2		c [µF]	l/min	20	50	75	100	150	200	250	300	1~230 V (Model M)			1~230 V (Model M)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~	3~	[kW]	[HP]		m³/h	1,2	3,0	4,5	6,0	9,0	12	15	18	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Multi55 3 N	9,6	6,6	3,8	2,1	2,1	1,5	2	30	mwc	37	35	33	31	28	24	18	10	131483	**700,00**	**E1**	131484	**640,00**	**E1**
Multi55 4 N		8,3	4,8		2,8	2,2	3			50	47	45	43	39	33	26	16				131485	**735,00**	**E1**
Multi55 6 N		12,1	7		4,2	3	4			77	73	70	66	60	52	43	29				131486	**860,00**	**E1**
Multi55 7 N		15,6	9		4,9	4	5,5			90	86	82	78	70	60	50	35				131487	**1083,00**	**E1**

Performance curves at 2900 rpm

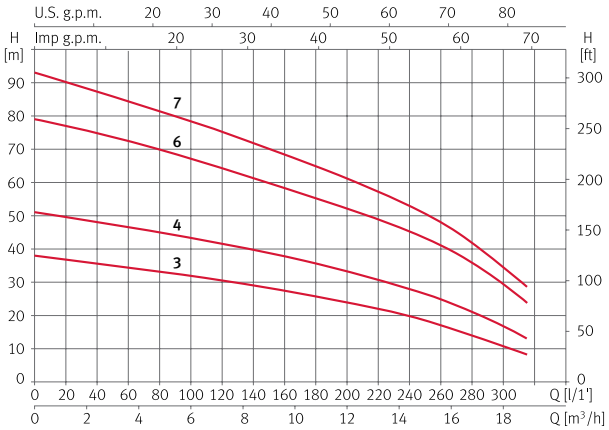
Multi25



Multi35 N



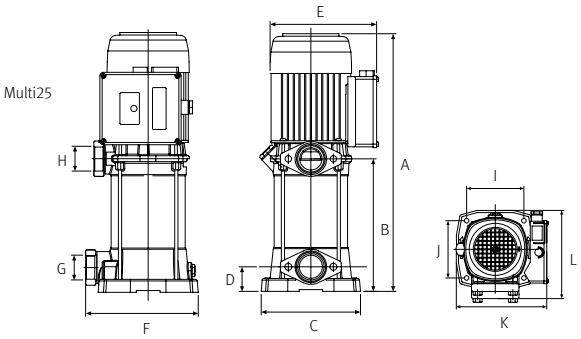
Multi55 N



Dimensions and weights

Multi25

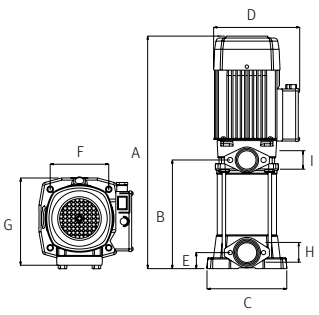
Model	A	B	C	D	E	F	G	H	I	J	K	L	Kg
Multi25 4	422	205	170	42	182	191	1¼"	1¼"	125	197	193	125	17,3
Multi25 5	441	226	170	42	182	191	1¼"	1¼"	125	197	193	125	17,9



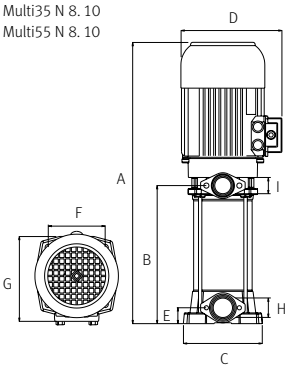
Multi35 N / Multi55 N

Model	A	B	C	D	E	F	G	H	I	Kg
Multi35 3 N	487	201.5	184	203	37	133	201	1½"	1¼"	20,2/20
Multi35 4 N	511,5	226	184	203	37	133	201	1½"	1¼"	22,4/20,4
Multi35 5 N	536	250.5	184	203	37	133	201	1½"	1¼"	25,1/22,7
Multi35 6 N	561	275	184	203	37	133	201	1½"	1¼"	25,7
Multi35 8 N	657,5	323	184	233	37	133	201	1½"	1¼"	32,6
Multi35 10 N	707,5	373	184	233	37	133	201	1½"	1¼"	39,4
Multi55 3 N	531	245	184	203	37	133	201	1½"	1¼"	25,7/23,3
Multi55 4 N	571	285	184	203	37	133	201	1½"	1¼"	26,6
Multi55 6 N	696	362	184	203	37	133	201	1½"	1¼"	35,4
Multi55 7 N	736	402	184	203	37	133	201	1½"	1¼"	39,7

Multi35 N 3. 4. 5. 6
Multi55 N 3. 4. 5. 6



Multi35 N 8. 10
Multi55 N 8. 10



Multi VE Surface Vertical

Quiet running vertical IN-LINE multi-stage centrifugal pumps

Applications
Spray irrigation systems,
hydropneumatic sets
and industrial installations.

Materials
Motor shaft, pump body and impellers in stainless steel AISI 304.
Diffusers in technopolymer.
Motor casing in aluminium.
Diffusers in technopolymer.
Suction, discharge and motor-pump coupling in cast iron.
Multi VE 94: Rods F 212 Zn. Motor-pump coupling system V18.
Multi VE 121: Motor-pump coupling system V1.

Motor
Asynchronous, two poles.
IP 54 protection.
Class F insulation.
Continuous operation.
IE3 efficiency for motors starting from 0.75 kW.

Standard tension:
Triphase version: 230/400 V 50 Hz up to 3 kW.
400/690 V 50 Hz starting from 3 kW.

Limitations
Maximum temperature of liquid: 40 °C.

Equipment
Supplied with counter flanges and gaskets.

ESPA IE3 motors
ESPA manufactures its own IE3 motors to ensure that the hydraulic efficiency achieved goes hand in hand with energy saving. ESPA motors can also be paired with ESPA Speedrive ESD variable speed drives.

ESPA Eco-Efficient Engineering
ErP READY


Multi VE94


Multi VE121N

WATER SUPPLY SURFACE HORIZONTAL & VERTICAL

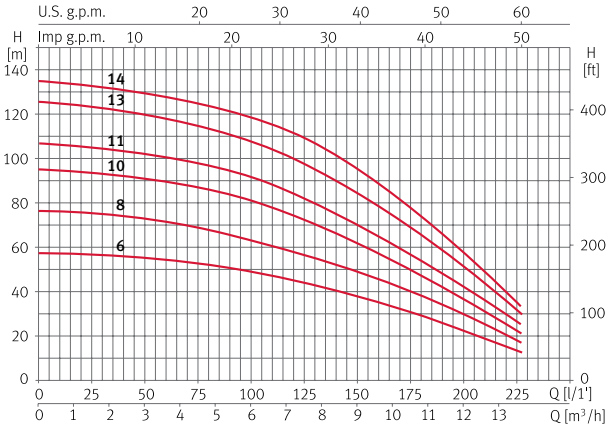
Hydraulic performance table and prices

Model	I [A]			P1 [kW]	P2		l/min	25	50	100	125	150	175	200	225	3~230/400 V (Model T)			3~400/692 V (Model T)		
	3~ 230 V	3~ 400 V	3~ 692 V	3~ 400 V	[kW]	[HP]	m³/h	1,5	3,0	6,0	7,5	9,0	10,5	12	13,5	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Multi VE94 5							mwc									97740	**1.474,00**	**E1**	97743	**1.487,00**	**E1**
Multi VE94 6	6,7	3,9		2,3	1,5	2		56	55	49	44	38	31	22	13	97746	**1.598,00**	**E1**	97750	**1.638,00**	**E1**
Multi VE94 7																97753	**1.672,00**	**E1**			
Multi VE94 8	8,9	5,2		3	2,2	3		75	73	63	56	49	40	30	18	97759	**1.860,00**	**E1**			
Multi VE94 9																97767	**2.058,00**	**E1**			
Multi VE94 10	11,7	6,8		3,9	3	4		93	91	81	72	62	50	36	22	97710	**2.144,00**	**E1**			
Multi VE94 11	12,4	7,2		4,4	3	4		105	102	91	82	70	56	42	26	97717	**2.217,00**	**E1**			
Multi VE94 12																97722	**2.283,00**	**E1**	97723	**2.283,00**	**E1**
Multi VE94 13		8,6	5	5	4	5,5		123	120	107	97	85	68	51	32				97726	**2.370,00**	**E1**
Multi VE94 14		9,7	5,4	5,5	5,5	7,5		132	129	118	109	95	77	57	35				97729	**2.670,00**	**E1**

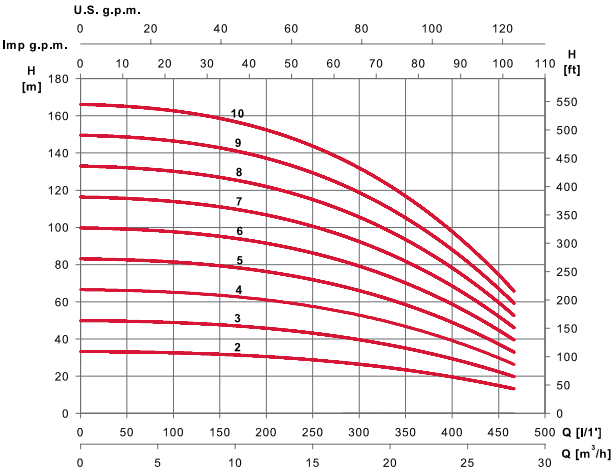
Model	I [A]			P1 [kW]	P2		l/min	0	65	130	195	260	325	390	455	3~230/400 V (Model T)			3~400/692 V (Model T)		
	3~ 230 V	3~ 400 V	3~ 692 V	3~ 400 V	[kW]	[HP]	m³/h	0,0	3,9	7,8	11,7	15,6	19,5	23,4	27,3	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Multi VE121 3 N		7	4	4,2	4	5,5	mwc	50	49	48	46	42	37	31	21	203426	**1.762,00**	**E1**	203427	**1.770,00**	**E1**
Multi VE121 4 N		10,1	5,8	5,5	5,5	7,5		66	66	64	61	57	50	41	29	203428	**2.116,00**	**E1**	203429	**2.109,00**	**E1**
Multi VE121 5 N		11,8	7,7	6,5	5,5	7,5		83	82	80	77	71	62	51	36	203430	**2.190,00**	**E1**	203431	**2.182,00**	**E1**
Multi VE121 6 N		14,6	8,5	7,8	7,5	10		100	99	96	92	85	75	61	43				203433	**2.374,00**	**E1**
Multi VE121 7 N		16,5	9,5	9,2	9,2	12,5		116	115	112	107	99	87	71	50				203434	**2.848,00**	**E1**
Multi VE121 8 N		19,5	11,3	10,6	11	15		133	132	128	123	113	100	81	57				203435	**2.892,00**	**E1**
Multi VE121 9 N		21	12,2	13,8	15	20		150	148	145	138	127	112	92	64				203436	**4.959,00**	**E1**
Multi VE121 10 N		23	13,3	15	15	20		166	165	161	153	141	125	102	71				203437	**5.094,00**	**E1**

Performance curves at 2900 rpm

Multi VE 94



Multi VE121

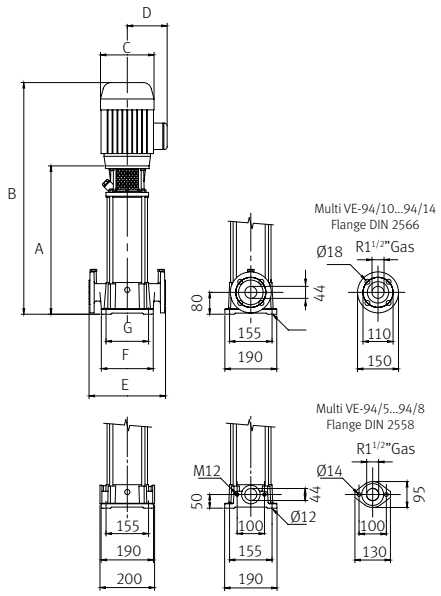


Dimensions and weights

Multi VE 94

Model	A	B	C	D	E	F	G	KgB
Multi VE94 6	486	738	176	127	280	190	155	35
Multi VE94 8	563	838	176	127	280	190	155	38
Multi VE94 10	666	974	194	138	280	190	155	51
Multi VE94 11	703	1010	194	138	280	190	155	52
Multi VE94 13	780	1086	194	138	280	190	155	57
Multi VE94 14	816	1134	220	146	280	190	155	66

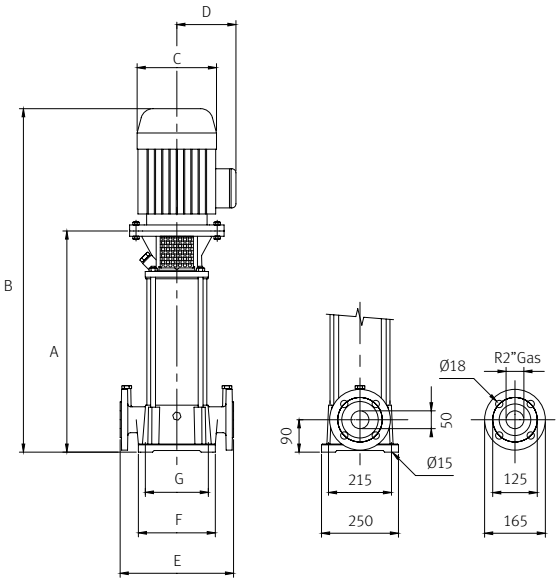
KgB: hydraulic + motor



Multi VE121

Model	A	B	C	D	E	F	G	KgB	KgA
Multi VE121 2	470	776	195	140	300	210	130	58,4	37,8
Multi VE121 3	522	847	195	140	300	210	130	64,9	39,2
Multi VE121 4	574	943	220	182	300	210	130	81,7	42,6
Multi VE121 5	626	995	220	182	300	210	130	83,4	44,3
Multi VE121 6	678	1085	220	182	300	210	130	85,5	45,8
Multi VE121 7	730	1137	220	182	300	210	130	94,2	47,3
Multi VE121 8	782	1189	220	182	300	210	130	95,8	48,9
Multi VE121 9	834	1241	220	182	300	210	130	102,7	50,4
Multi VE121 10	886	1293	220	182	300	210	130	104,2	51,9

KgA: hydraulic **KgB:** hydraulic + motor



Multi VS Surface Vertical

Vertical multistage pumps in stainless Steel AISI 304 (316 for N models)

Specifications
ESPA introduces a new range of pumps, the Multi VS range which is manufactured completely in stainless steel AISI 304 (version F). AISI 316 (version N) is available on request.
The Multi VS has been developed by ESPA to offer the market a range of vertical multistage pumps coupled to standard motors which are ready to operate with variable speed controllers such as ESPA Speedrive V2. All standard motors comply with the IE3 efficiency standards as well as regulations EC640/2009 and 04/2014. The new Multi VS range uses a new hydraulic design which provides a wide range of performances to satisfy the demands of every installation. The Espa Multi VS range utilises the latest technologies in stainless steel production. With this new range ESPA has focused on reaching the highest levels of efficiency in hydraulic performance and pump reliability in any working requirement.

Applications
Water supply in building and services, clear water transfer in industrial processes, civil construction and irrigation systems. Water boosting in multi pump sets or single pumps uses, automatic and manual irrigations systems. Cleaning installations, demineralized water transfer, cold and hot water circulation for industrial process or water exchange heating systems.

Operation limits
Liquid temperature: from -20 to 120 °C.
Maximum working pressure: 25 bar for version F.
Flow range:
Multi VS 4 from 7 to 108 l/min. BEP: 67 l/min.
Multi VS 6 from 10 to 150 l/min. BEP: 100 l/min.
Multi VS 10 from 18 to 220 l/min. BEP: 167 l/min.
Multi VS 15 from 27 to 375 l/min. BEP: 250 l/min.
Multi VS 25 from 43 to 583 l/min. BEP: 417 l/min.

Motor
Protection IP55 class F.
Efficiency rate IE3 (for all three phase motors).
Voltage: 230/400V 50HZ up to 3 kW
400/690V 50HZ for power above 3 kW.

Material
Multi VS F all wet parts in stainless steel AISI 304
Multi VS N all wet parts in stainless steel AISI 316
Multi VS C all wet parts in AISI 304 and foot in cast iron.

Mechanical closure
The special design of the coupling lantern and the upper body of the pump allows easy access to the mechanical closure, ensuring maintenance without having to disassemble completely the pump.

Equipment
Multi VS F in stainless steel AISI 304.
Multi VS N in stainless steel AISI 316.
Multi VS C in AISI 304 and foot in cast iron GG25.

ESPA Eco-Efficient Engineering
ErP READY

Multi VS Surface Vertical

Hydraulic performance table and prices

Multi VS4

Model	I [A]			P1 [kW]	P2		l/min	0	22	45	65	83	108	3~ Versione F		
	3~ 230 V	3~ 400 V	3~ 692V	3~	[kW]	[HP]	m³/h	0	1,3	2,7	3,9	5,0	6,5	Code	Price €	Discount cat.
MULTI VS4 05	3,2	1,8		1,0	0,75	1,0	mwc	45,1	43,5	41,2	37,2	31,3	19,3	200123	**1.357,00**	E1
MULTI VS4 07	4,3	2,5		1,4	1,1	1,5		63,1	60,9	57,7	52,1	43,8	27,1	200124	**1.435,00**	E1
MULTI VS4 10	6,1	3,5		1,9	1,5	2,0		90,2	86,9	82,4	74,4	62,6	38,7	200125	**1.711,00**	E1
MULTI VS4 14	8,3	4,8		2,7	2,2	3,0		126,3	121,7	115,4	104,2	87,6	54,1	200126	**1.893,00**	E1
MULTI VS4 20	11,7	6,8		3,7	3,0	4,0		180,4	173,9	164,9	148,8	125,1	77,3	200127	**2.337,00**	E1

Multi VS6

Model	I [A]			P1 [kW]	P2		l/min	0	36	70	98	125	150	3~ Versione F		
	3~ 230 V	3~ 400 V	3~ 692V	3~	[kW]	[HP]	m³/h	0	2,2	4,2	5,9	7,5	9,0	Code	Price €	Discount cat.
MULTI VS6 03	2,7	1,5		0,9	0,75	1,0	mwc	29,5	28,1	26,3	23,9	20,3	15,2	200128	**1.300,00**	E1
MULTI VS6 05	4,3	2,5		1,4	1,1	1,5		49,2	46,8	43,8	39,8	33,8	25,3	200129	**1.378,00**	E1
MULTI VS6 07	6,0	3,4		1,9	1,5	2,0		68,8	65,5	61,4	55,7	47,3	35,5	200130	**1.601,00**	E1
MULTI VS6 10	8,4	4,8		2,7	2,2	3,0		98,3	93,6	87,7	79,6	67,5	50,7	200131	**1.784,00**	E1
MULTI VS6 14	11,6	6,6		3,7	3,0	4,0		137,6	131,0	122,8	111,4	94,5	71,0	200132	**2.095,00**	E1
MULTI VS6 18		8,4	4,9	4,7	4,0	5,5		176,9	168,5	157,8	143,3	121,5	91,2	200133	**2.545,00**	E1
MULTI VS6 22		10,2	5,9	5,6	5,5	7,5		216,3	205,9	192,9	175,1	148,6	111,5	200134	**3.399,00**	E1

Multi VS10

Model	I [A]			P1 [kW]	P2		l/min	0	67	101	135	184	220	3~ Versione F		
	3~ 230 V	3~ 400 V	3~ 692V	3~	[kW]	[HP]	m³/h	0	4,0	6,0	8,1	11,0	13,2	Code	Price €	Discount cat.
MULTI VS10 03	4,3	2,5		1,4	1,1	1,5	mwc	34,2	32,6	31,0	28,9	24,2	18,9	200135	**1.648,00**	E1
MULTI VS10 04	5,6	3,2		1,8	1,5	2,0		45,6	43,5	41,4	38,5	32,2	25,3	200136	**1.862,00**	E1
MULTI VS10 06	8,2	4,7		2,6	2,2	3,0		68,4	65,2	62,0	57,8	48,4	37,9	200137	**2.013,00**	E1
MULTI VS10 08	10,8	6,2		3,4	3,0	4,0		91,2	86,9	82,7	77,1	64,5	50,5	200138	**2.269,00**	E1
MULTI VS10 09		6,9	4,0	3,8	4,0	5,5		102,6	97,8	93,1	86,7	72,5	56,8	200139	**2.569,00**	E1
MULTI VS10 11		8,4	4,9	4,7	4,0	5,5		125,5	119,5	113,8	106,0	88,7	69,5	200140	**2.704,00**	E1
MULTI VS10 15		11,4	6,6	6,3	5,5	7,5		171,1	163,0	155,1	144,5	120,9	94,7	200141	**3.639,00**	E1
MULTI VS10 17		12,7	7,4	7,1	7,5	10,0		193,9	184,7	175,8	163,8	137,0	107,3	200142	**3.868,00**	E1
MULTI VS10 21		15,7	9,1	8,7	7,5	10,0		239,5	228,2	217,2	202,3	169,3	132,6	200143	**4.065,00**	E1

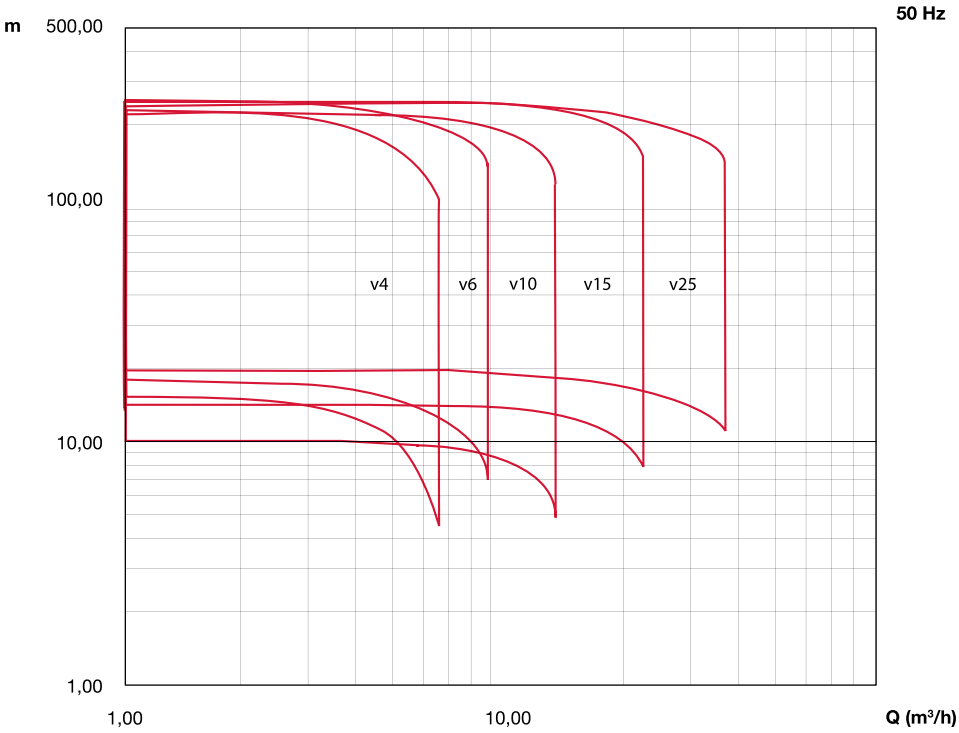
Multi VS15

Model	I [A]			P1 [kW]	P2		l/min	0	67	133	200	267	375	3~ Versione F		
	3~ 230 V	3~ 400 V	3~ 692V	3~	[kW]	[HP]	m³/h	0	4,0	8,0	12,0	16,0	22,5	Code	Price €	Discount cat.
MULTI VS15 02	6,4	3,7		2,0	2,2	3,0	mwc	29,2	28,3	27,5	26,1	24,1	18,4	200144	**1.885,00**	E1
MULTI VS15 03	9,5	5,5		3,0	3,0	4,0		43,9	42,4	41,2	39,2	36,1	27,6	200145	**2.092,00**	E1
MULTI VS15 04		7,2	4,2	4,0	4,0	5,5		58,5	56,6	55,0	52,2	48,1	36,7	200146	**2.375,00**	E1
MULTI VS15 06		10,7	6,2	5,9	5,5	7,5		87,7	84,9	82,4	78,3	72,2	55,1	200147	**3.163,00**	E1
MULTI VS15 08		14,1	8,2	7,8	7,5	10,0		116,9	113,2	109,9	104,4	96,3	73,5	200148	**3.425,00**	E1
MULTI VS15 11		19,2	11,1	10,6	11,0	15,0		160,8	155,6	151,2	143,6	132,3	101,1	200149	**4.766,00**	E1
MULTI VS15 17		29,4	17,0	16,3	15,0	20,0		248,5	240,5	233,6	221,9	204,5	156,2	200150	**5.418,00**	E1

Multi VS25

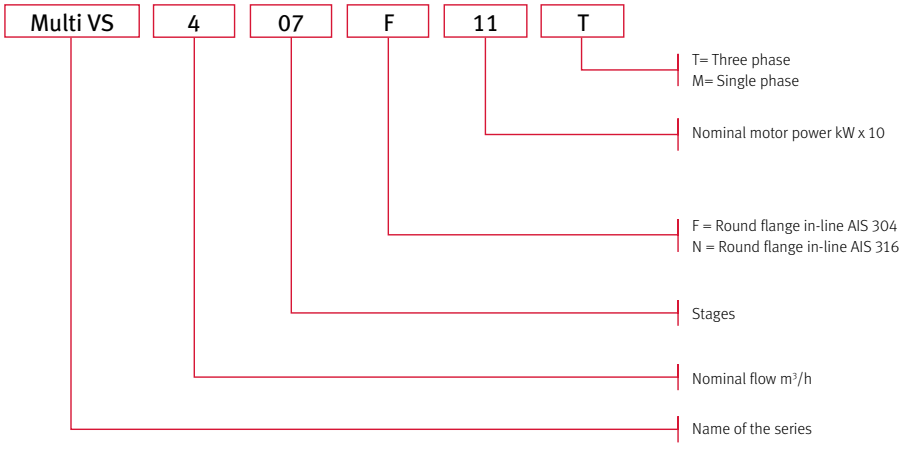
Model	I [A]			P1 [kW]	P2		l/min	0	150	283	417	500	583	3~ Versione F		
	3~ 230 V	3~ 400 V	3~ 692V	3~	[kW]	[HP]	m³/h	0	9,0	17,0	25,0	30,0	35,0	Code	Price €	Discount cat.
MULTI VS25 01	6,3	3,6		2,0	2,2	3,0	mwc	20,7	20,0	18,8	17,8	14,8	12,3	200151	**2.730,00**	E1
MULTI VS25 02		7,0	4,1	3,9	4,0	5,5		41,4	39,9	37,5	35,6	29,7	24,6	200152	**3.127,00**	E1
MULTI VS25 03		10,4	6,0	5,8	5,5	7,5		62,1	59,9	56,3	53,4	44,5	36,9	200153	**3.919,00**	E1
MULTI VS25 04		13,8	8,0	7,6	7,5	10,0		82,8	79,8	75,0	71,2	59,4	49,2	200154	**4.221,00**	E1
MULTI VS25 06		20,4	11,8	11,3	11,0	15,0		124,2	119,7	112,5	106,7	89,0	73,8	200155	**5.793,00**	E1
MULTI VS25 08		27,0	15,6	14,9	15,0	20,0		165,6	159,6	150,0	142,3	118,7	98,4	200156	**6.478,00**	E1

Field of application



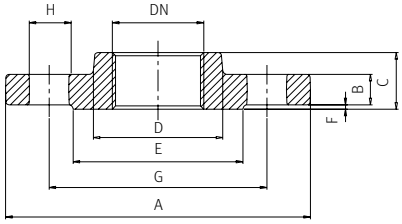
Performance curves in accordance with ISO 9906:2012 annex 3B.

Acronyms identification Multi VS 4, 6, 10, 15 and 25



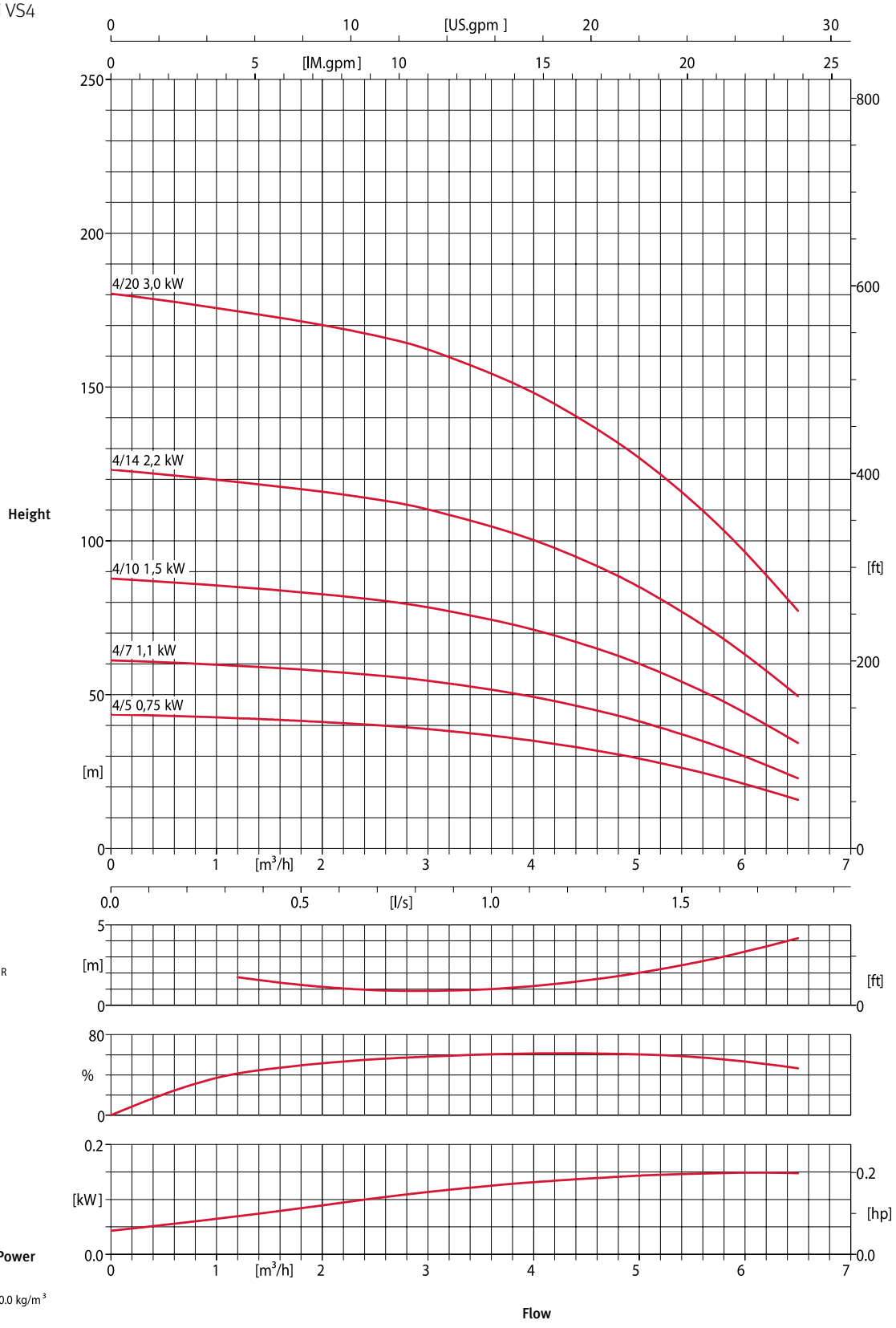
Flange DIN 2566 dimensions

Flange	DN	PN	A	B	C	D	E	F	G	H	No. Drills	Metric
DN 32	Rp 1 1/4"	25 bar	140	16	26	60	78	2	100	18	4	M16
DN 40	Rp 1 1/2"	25 bar	150	16	26	70	88	3	110	18	4	M16
DN 50	Rp 2"	25 bar	165	18	28	85	102	3	125	18	4	M16



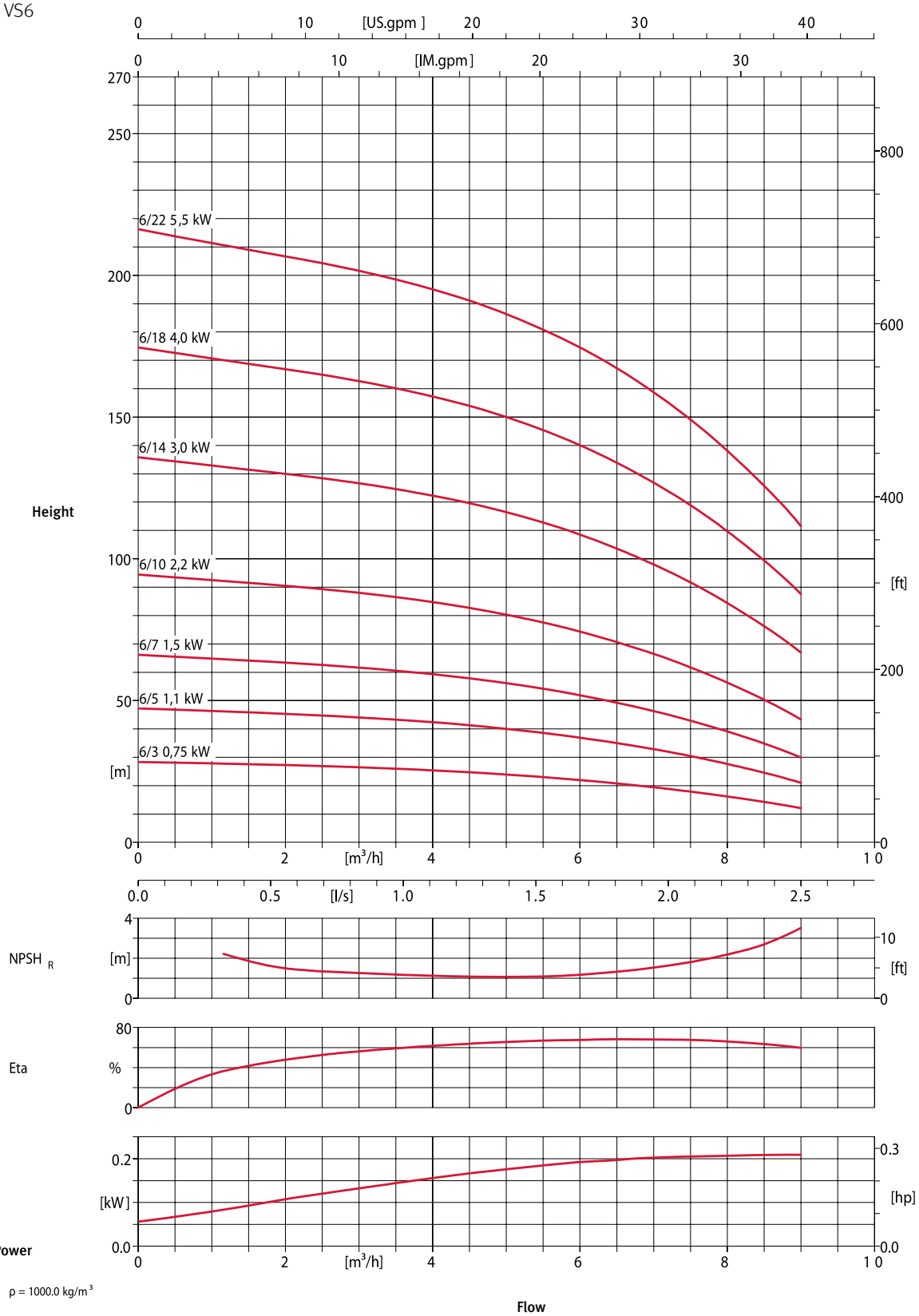
Performance curves at 2900 rpm

Multi VS4



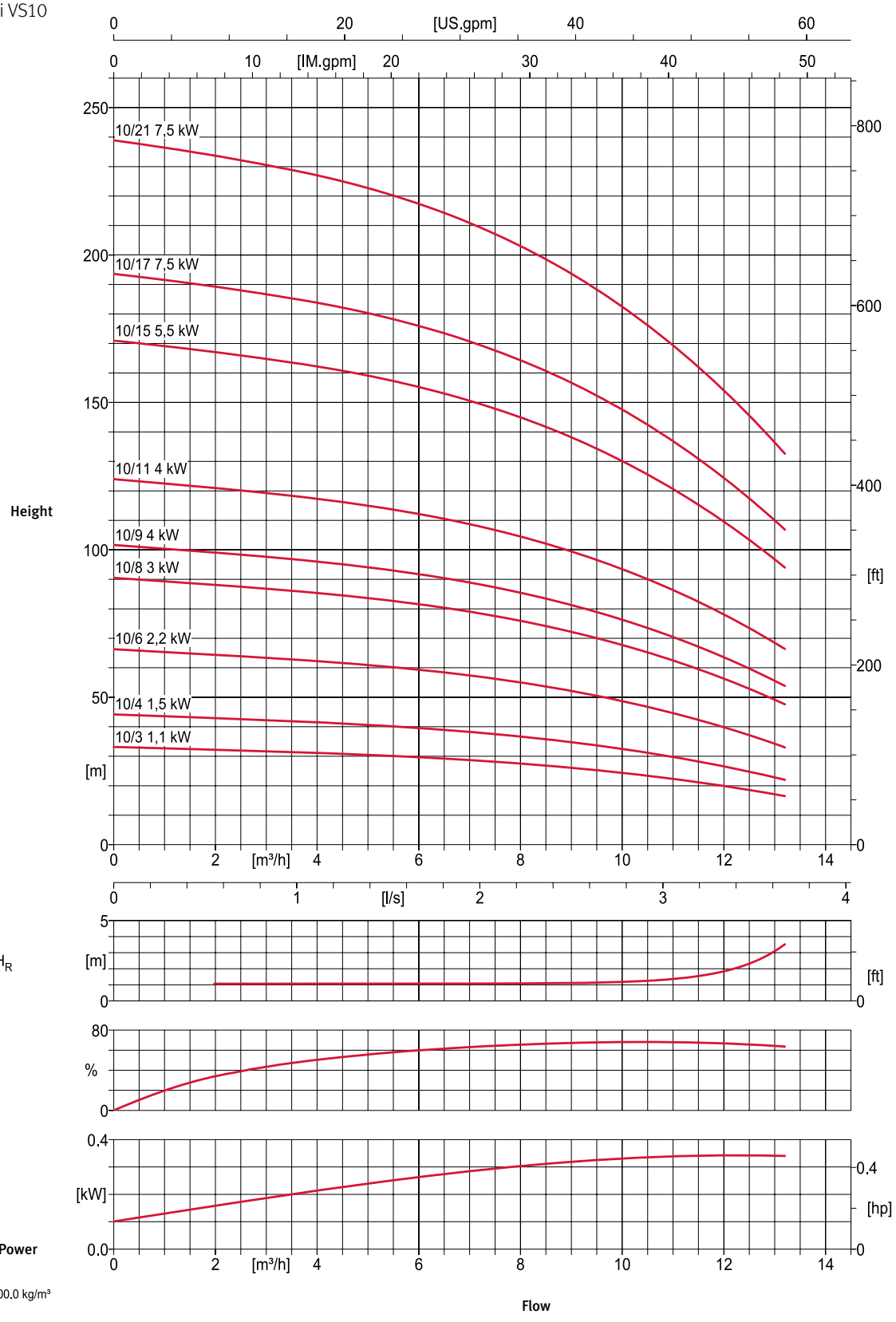
Performance curves at 2900 rpm

Multi VS6



Performance curves at 2900 rpm

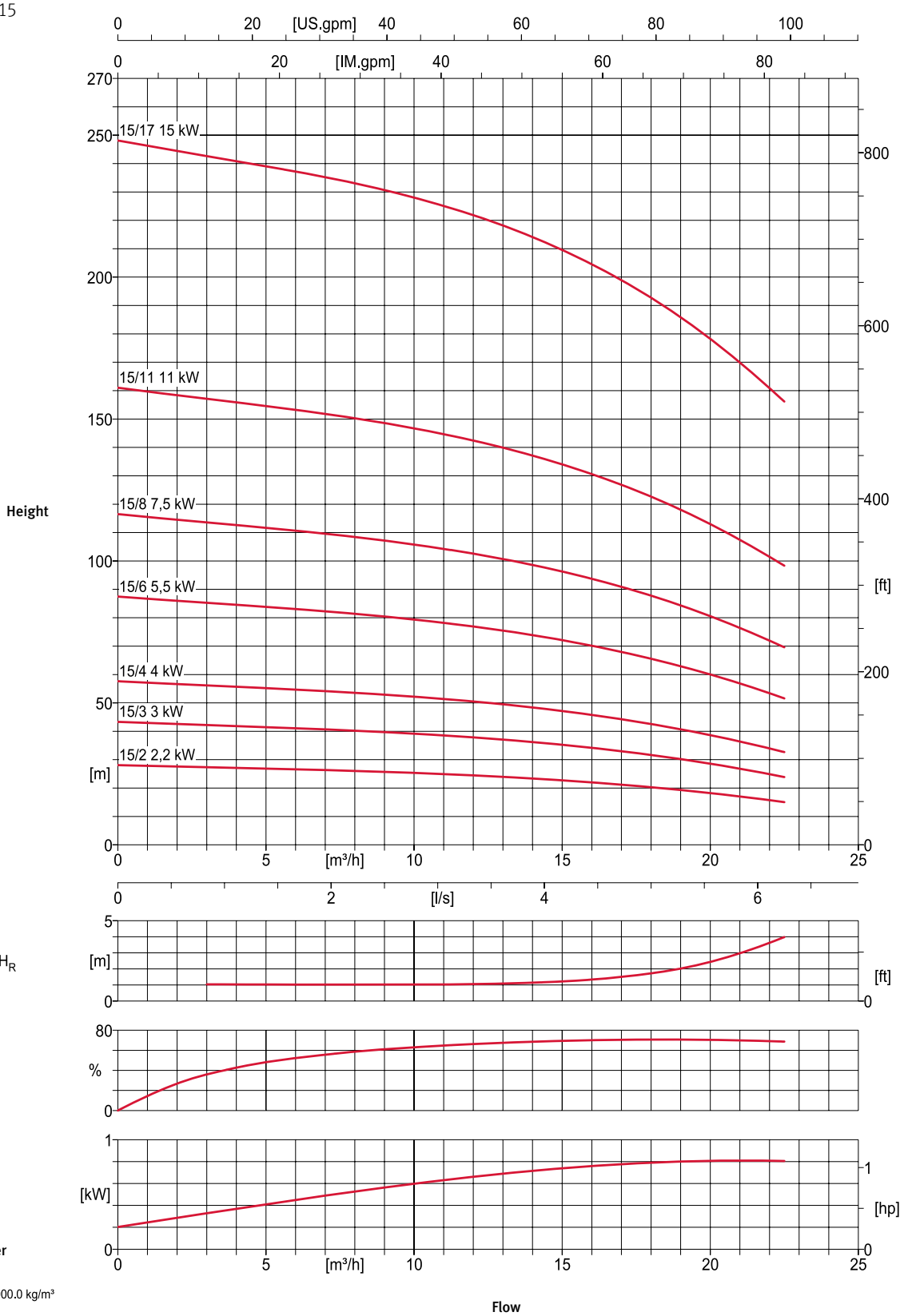
Multi VS10



ρ = 1000.0 kg/m³

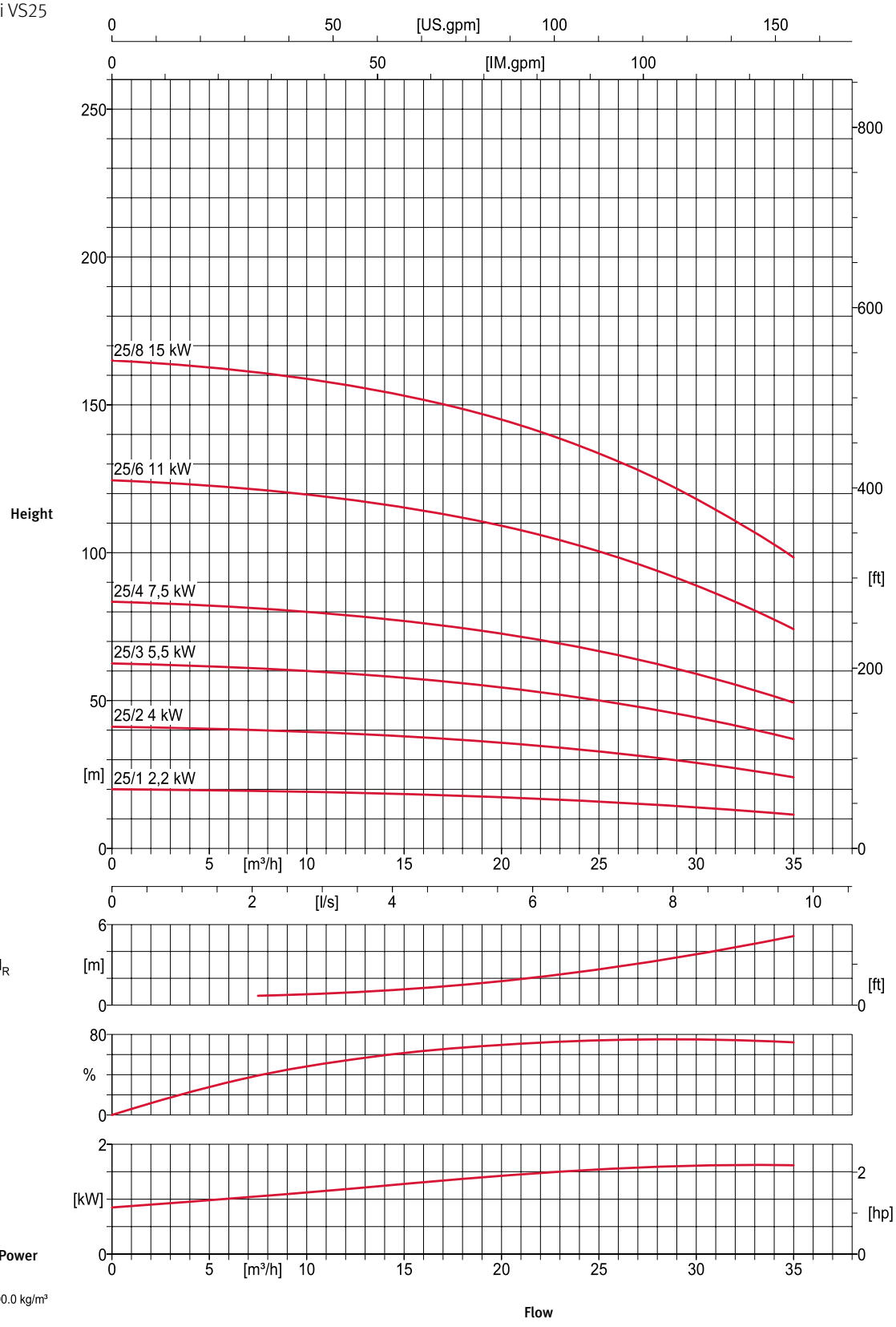
Performance curves at 2900 rpm

Multi VS15



Performance curves at 2900 rpm

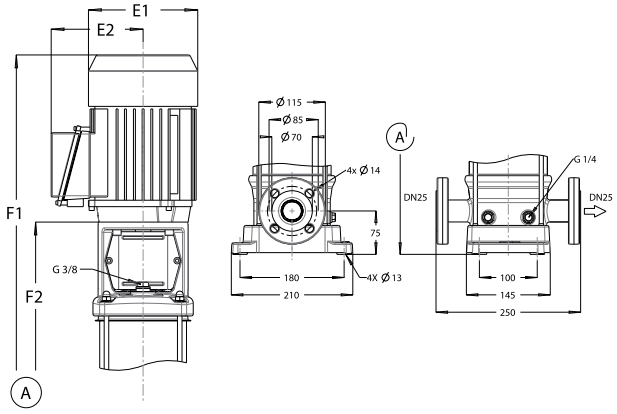
Multi VS25



Dimensions and weights

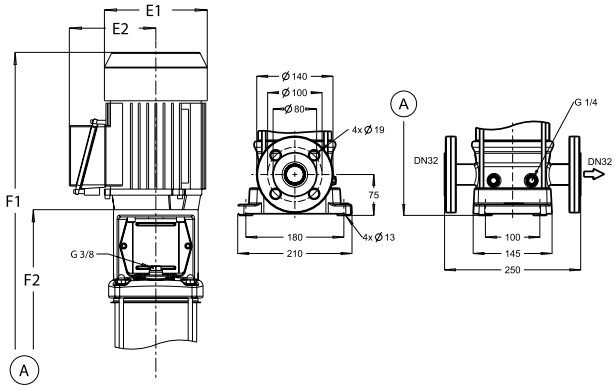
Multi VS4

Model	Motor dimensions		Multi VS(S)(-E) V/T (E-CASING PN16)			Multi VS (C/S) F		
	E1	E2	F1	F2	Kg	F1	F2	Kg
Multi VS4/5	150	115	**590**	**333**	23	615	358	30
Multi VS4/6	150	115	**612**	**355**	26	637	380	30
Multi VS4/10	176	141	**704**	**451**	33	729	476	38
Multi VS4/14	176	141	**819**	**537**	36	844	562	41
Multi VS4/20	195	145	**990**	**676**	53	1015	701	53



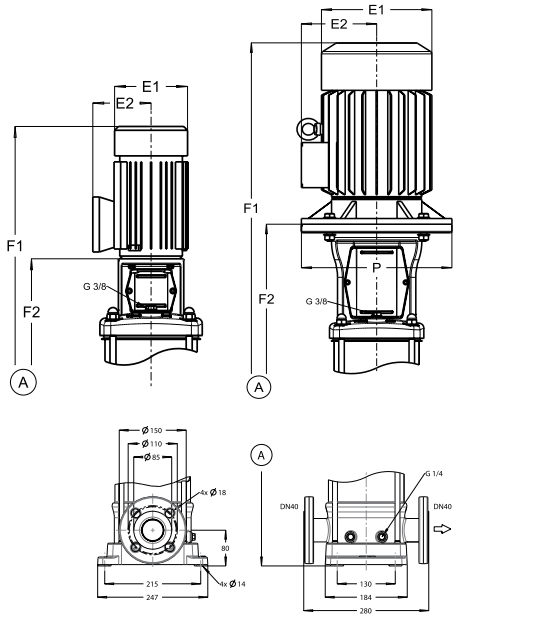
Multi VS6

Model	Motor dimensions		Multi VS(S)(-E) V/T (E-CASING PN16)			Multi VS (C/S) F		
	E1	E2	F1	F2	Kg	F1	F2	Kg
Multi VS6/3	150	115	**558**	**301**	25	583	326	31
Multi VS6/5	150	115	**608**	**351**	26	633	376	32
Multi VS6/7	176	141	**664**	**411**	32	689	436	38
Multi VS6/10	176	141	**768**	**486**	35	793	511	41
Multi VS6/14	195	145	**910**	**596**	47	935	621	53
Multi VS6/18	223	167	**1.016**	**696**	61	1.044	721	62



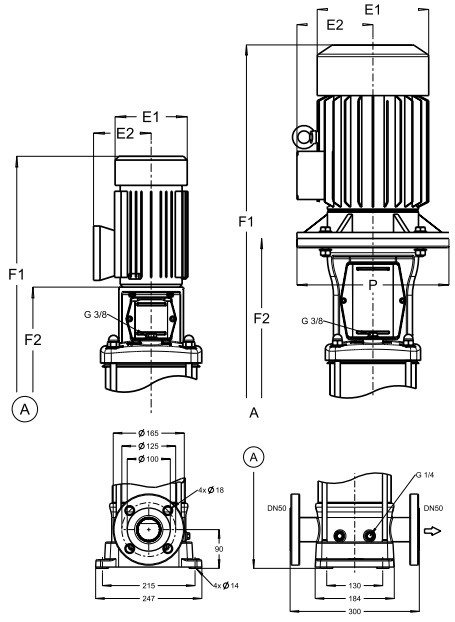
Multi VS10

Model	Motor dimensions			Multi VS(S)(-E) V/T (E-CASING PN16)			Multi VS (C/S) F		
	E1	E2	P	F1	F2	Kg	F1	F2	Kg
Multi VS10/3	150	115		**647**	**372**	36	647	372	39
Multi VS10/4	176	141		**679**	**409**	41	679	409	45
Multi VS10/6	176	141		**747**	**462**	45	747	462	49
Multi VS10/8	195	145		**855**	**525**	55	855	525	59
Multi VS10/9	223	167		**891**	**551**	62	891	551	65
Multi VS10/11	223	167		**944**	**604**	64	944	604	67
Multi VS10/15	266	178	300	**1.155**	**790**	108	1.155	790	112
Multi VS10/17	266	178	300	**1.208**	**843**	116	1.208	843	118
Multi VS10/21	266	178	300	**1.314**	**949**	120	1.314	949	122



Multi VS15

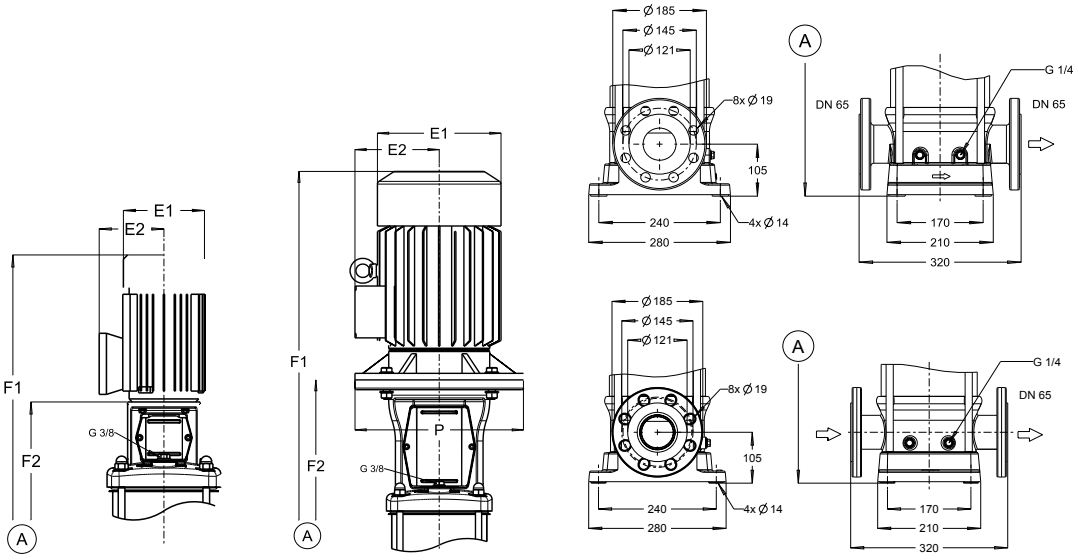
Model	Motor dimensions			Multi VS(S)(-E) V/T (E-CASING PN16)			Multi VS (C/S) F		
	E1	E2	P	F1	F2	Kg	F1	F2	Kg
Multi VS15/2	176	141		**641**	**356**	41	651	366	47
Multi VS15/3	195	145		**722**	**392**	50	732	402	56
Multi VS15/4	223	167		**759**	**419**	56	769	429	62
Multi VS15/6	266	178	300	**916**	**551**	96	926	561	102
Multi VS15/8	266	178	300	**969**	**604**	103	979	614	109
Multi VS15/11	315	204	350				1.222	724	188
Multi VS15/17	315	204	350				1.381	883	207



Dimensions and weights

Multi VS25

Model	Motor dimensions			Multi VS (C/S) F		
	E1	E2	P	F1	F2	Kg
Multi VS25/1	176	141		693	408	70
Multi VS25/2	223	167		818	478	85
Multi VS25/3	266	178	300	999	634	114
Multi VS25/4	266	178	300	1.064	699	121
Multi VS25/6	315	204	350	1.357	859	206
Multi VS25/8	315	204	350	1.487	989	231



ESPA
Innovative Solutions

55
Since 1962

EN 733 END SUCTION

FN EN 733 END SUCTION

Cast iron close coupled end suction pumps

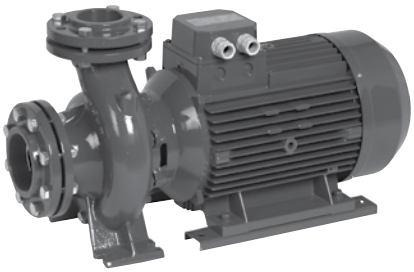
Applications
Movement of clean water and fluids, chemically non-aggressive and non-explosive.
Water supply and pressure boosting, irrigation.
Circulation of hot water and liquid refrigerants in air conditioning systems.
Washing plants, sprinkler systems.

Materials
Pump body, door seal discs and impeller in cast iron EN-GJL-250.
Shaft: Stainless steel.
Mechanical seal: Silicon carbide/ aluminium oxide.

Upon request
Counter flange

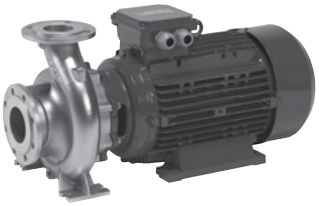
Limitations
Liquid temperature range -15 to +120° C.
Ambient temperature max 40 °C.
Maximum working pressure 10 bar.

Motor
Three-phase asynchronous motor.
IP55 grade protection.
Class F insulation.
Rotation speed 2900 rpm.
Standard voltage:
230/400V 50Hz up to 4 kW,
400/690V 50Hz for higher power.
Efficiency class in accordance with IEC 60034-30
IE2 for powers up to 0.75 kW
IE3 for powers greater than 0.75 kW
ALL MOTORS IN THE FN SERIES ARE COMPATIBLE WITH OPERATION UNDER INVERTERS

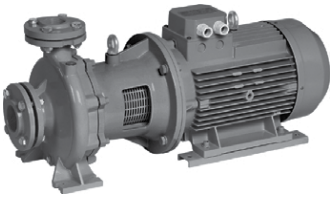


Version available upon request

FNX version with stainless steel hydraulics and **FNB** with bronze hydraulics.

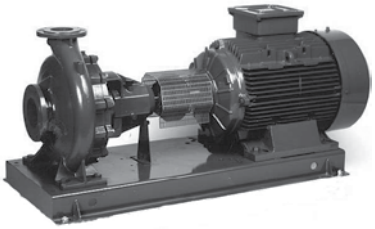


FNS version with rigid coupling



FNF version with free axis

FNFZ version with free axis on crankcase

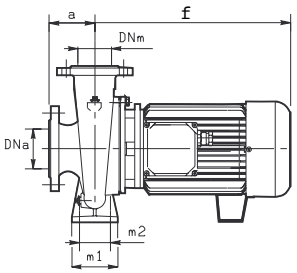


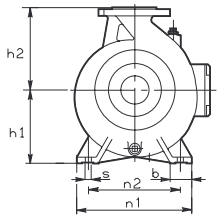
Hydraulic performance table and prices

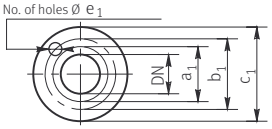
Model	P2		l/min	0	67	100	133	167	200	233	267	300	333	417	500	583	Code	Price €	Discount cat.
	kW	Hp	m³/h	0	4	6	8	10	12	14	16	18	20	25	30	35			
FN32-125SD	0,75	1		12	11,5	11	11	10,5	10	9,5	9	8,5	8				FN32125SD	**688,00**	E1
FN32-250SE	7,5	10		62					57	56,75	56,5	56,25	56	50,5	45		FN32250SE	**1.963,00**	E1
FN32-125SC	1,1	1,5		18	17,5	17	17	16,5	16	15,5	15	14,5	14				FN32125SC	**711,00**	E1
FN32-250SD	9,2	12,5		68					63	62,5	62	61,5	61	58	55		FN32250SD	**2.118,00**	E1
FN32-125SB	1,5	2		22	21,5	21,5	21	20,5	20	19,5	19	18,5	18				FN32125SB	**750,00**	E1
FN32-250SC	11	15		76					71	70,5	70	69,5	69	67	65	60,5	FN32250SC	**2.344,00**	E1
FN32-125SA	2,2	3		26	25,5	25	25	24,5	24	23,5	23	22,5	22	20,5	18		FN32125SA	**832,00**	E1
FN32-250SB	12,5	17		83					77	77	77	76,75	76,5	75,5	73	70	FN32250SB	**2.556,00**	E1
FN32-160SC	2,2	3		25,5		25	24,5	23,75	23	22	21	19,5	18				FN32160SC	**917,00**	E1
FN32-250SAB	15	20		90					85	84,75	84,5	84	83,5	82,5	81	77	FN32250SAB	**2.941,00**	E1
FN32-160SB	3	4	mwc	32,5		32	31,5	31,25	31	30	29	28	27				FN32160SB	**1.200,00**	E1
FN32-250SA	17	23		98					93	92,5	92	91,5	91	90,5	90	87	FN32250SA	**3.085,00**	E1
FN32-160SA	4	5,5		41		40,5	40	39,75	39,5	38,75	38	36,5	35	31	27		FN32160SA	**1.296,00**	E1
FN32-200NC	4	5,5		46		45	44	43	41,3	39,8	38,2	36,2	34,4	27,5			FN32200NC	**1.428,00**	E1
FN32-200NB	5,5	7,5		53,6		53	52,8	52,5	51,7	51,1	50,2	49,8	47,4	43	35		FN32200NB	**1.491,00**	E1
FN32-200NA	7,5	10		63		62,8	62,6	62,5	62,3	62,2	62	60,6	59,5	57,5	49,7	38,6	FN32200NA	**1.742,00**	E1
FN32-250E	7,5	10		64			63	62,6	62,4	61,8	61,3	60,9	59	56			FN32250E	**1.949,00**	E1
FN32-250D	9,2	12,5		70			69,8	69,6	69,3	68,9	68,4	68,1	67,3	65,3	63		FN32250D	**2.104,00**	E1
FN32-250C	11	15		76,3			76,3	76	75,7	75,3	74,8	74,4	73,8	71,4	68,8		FN32250C	**2.330,00**	E1
FN32-250B	13,5	18,3		86			83,5	83	82,2	81,9	81,3	80,8	80	79,2	75	55	FN32250B	**2.542,00**	E1
FN32-250A	17	23		94			92	91	90,5	90	89,5	89	88,4	87,3	86	66	FN32250A	**3.070,00**	E1

Dimensions and weights

Model	DNm	DNa	f	a	m1	m2	n1	n2	h1	h2	s	b	Kg
FN32-125SD	32	50	335	80	100	70	190	140	112	140	14	50	27
FN32-250SE	32	50	510	100	125	95	320	250	180	225	14	65	87
FN32-125SC	32	50	335	80	100	70	190	140	112	140	14	50	29
FN32-250SD	32	50	510	100	125	95	320	250	180	225	14	65	90
FN32-125SB	32	50	371,5	80	100	70	190	140	112	140	14	50	31
FN32-250SC	32	50	510	100	125	95	320	250	180	225	14	65	93
FN32-125SA	32	50	371,5	80	100	70	190	140	112	140	14	50	34
FN32-250SB	32	50	510	100	125	95	320	250	180	225	14	65	103
FN32-160SC	32	50	372	80	100	70	190	140	112	140	14	50	35
FN32-250SAB	32	50	510	100	125	95	320	250	180	225	14	65	104
FN32-160SB	32	50	396	80	100	70	240	190	132	160	14	50	40
FN32-250SA	32	50	510	100	125	95	320	250	180	225	14	65	108
FN32-160SA	32	50	427	80	100	70	240	190	132	160	14	50	51
FN32-200NC	32	50	426	80	100	70	240	190	160	180	14	50	47
FN32-200NB	32	50	450	80	100	70	240	190	160	180	14	50	52
FN32-200NA	32	50	492	80	100	70	240	190	160	180	14	50	60
FN32-250E	32	50	532	100	125	95	320	250	180	225	14	65	70
FN32-250D	32	50	612	100	125	95	320	250	180	225	14	65	81
FN32-250C	32	50	612	100	125	95	320	250	180	225	14	65	90
FN32-250B	32	50	612	100	125	95	320	250	180	225	14	65	95
FN32-250A	32	50	744	100	125	95	320	250	180	225	14	65	100







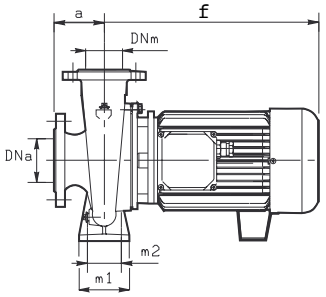
DN	a1	b1	c1	d1	e1
32	78	100	140	4	19
50	102	125	165	4	19

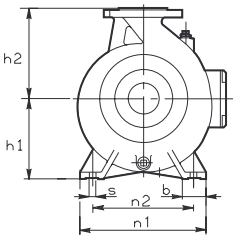
Hydraulic performance table and prices

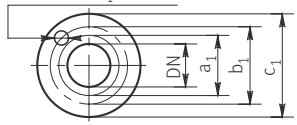
Model	P2		l/min	0	133	167	200	233	267	300	333	417	500	583	667	750	833	917	1000	Code	Price €	Discount cat.
	kW	Hp	m³/h	0	8	10	12	14	16	18	20	25	30	35	40	45	50	55	60			
FN40-125SD	1,5	2		19	18,5	17,5	17	16,75	16,5	16,25	16	24	12							FN40125SD	**785,00**	**E1**
FN40-160NC/B	3	4		32		31,7	31,6	31,4	31	30,7	30,2	28,8	26,7	14,9						FN40160NC/B	**1.240,00**	**E1**
FN40-125SC	2,2	3		24,5	24	23,5	23,5	23,25	23	23	23	21	19	17						FN40125SC	**909,00**	**E1**
FN40-160NB/B	4	5,5		36,7			36,6	36,5	36,3	36	35,5	34	32	30,1						FN40160NB/B	**1.339,00**	**E1**
FN40-125SB	3	4		27,5			26,5	26,25	26	26	26	24,5	23	21	19					FN40125SB	**1.192,00**	**E1**
FN40-160NC/A	4	5,5		32			31,6	31,4	31	30,7	30,2	28,8	26,7	23	21	16				FN40160NC/A	**1.339,00**	**E1**
FN40-125SA	4	5,5		30		29	29	28,75	28,5	28,25	28	27	26	25	23	19,5	17			FN40125SA	**1.287,00**	**E1**
FN40-160NB/A	5,5	7,5		36,7			36,6	36,5	36,3	36	35,5	34	32	30,1	27,4	24,5	20,5			FN40160NB/A	**1.405,00**	**E1**
FN40-160NA	5,5	7,5		39			39	39	38,9	38,8	38,7	37,4	36	33,8	31,8	28,7	25,4	22		FN40160NA	**1.405,00**	**E1**
FN40-200C	4	5,5		45			43,9	43,7	43,5	42,2	41,2	37,3	33,5							FN40200C	**1.455,00**	**E1**
FN40-200B	5,5	7,5	mwc	48,8			48,3	48	47,5	46,8	46	43,6	40,4	36,5	31,4					FN40200B	**1.520,00**	**E1**
FN40-200A	7,5	10		58,2			58	57,9	57,9	57,6	57	55	52	48	42					FN40200A	**1.785,00**	**E1**
FN40-200NB	7,5	10		53							52,5	51,4	49,4	47	44,2	41,5	37,5	30,5		FN40200NB	**1.803,00**	**E1**
FN40-200NA	11	15		61							60	59	57	56	54	50	47	41,5	35	FN40200NA	**2.091,00**	**E1**
FN40-250NE	12,5	17		67,5		66,7	66,4	65,9	65,4	64,8	64	62,3	60,3	58,3	54,3	48,9	45,3	43		FN40250NE	**2.660,00**	**E1**
FN40-250ND	15	20		74		73	72,8	72,5	72,3	72	71	70	68	66	64	62	60	57	54	FN40250ND	**3.045,00**	**E1**
FN40-250NC	17	23		82		81	80,8	80,5	80,2	80	79	78	76,5	75	73	70,5	68	65	62	FN40250NC	**3.658,00**	**E1**
FN40-250NB	18,5	25		89		88,5	88,3	87,9	87,6	87,3	86	85,5	84	82,1	80	77,5	74,6	71,4	68	FN40250NB	**3.801,00**	**E1**
FN40-315C	37	50		100									96	95,5	95	94	93	92	90	FN40315C	**7.198,00**	**E1**
FN40-250NA	22	30		98		95,8	95,6	95,4	95	94,5	93,2	91,6	89,7	87,8	85,2	83,9	79	75,8	71,3	FN40250NA	**4.160,00**	**E1**
FN40-315B	45	60		129									128	127,5	127	126	125	124	122	FN40315B	**10.881,00**	**E1**

Dimensions and weights

Model	DNm	DNa	f	a	m1	m2	n1	n2	h1	h2	s	b	Kg
FN40-125SD	40	65	372	80	100	70	210	160	112	140	14	50	33
FN40-160NC/B	40	65	365	80	100	70	190	140	112	140	14	50	33
FN40-125SC	40	65	372	80	100	70	210	160	112	140	14	50	35
FN40-160NB/B	40	65	400	80	100	70	240	190	132	160	14	50	39
FN40-125SB	40	65	372	80	100	70	210	160	112	140	14	50	41
FN40-160NC/A	40	65	425	80	100	70	240	190	132	160	14	50	42
FN40-125SA	40	65	372	80	100	70	210	160	112	140	14	50	53
FN40-160NB/A	40	65	450	80	100	70	240	190	132	160	14	50	51
FN40-160NA	40	65	425	100	100	70	265	212	160	180	14	50	50
FN40-200C	40	65	450	100	100	70	265	212	160	180	14	50	55
FN40-200B	40	65	490	100	100	70	265	212	160	180	14	50	62
FN40-200A	40	65	490	100	100	70	265	212	160	180	14	50	61
FN40-200NB	40	65	571	100	100	70	265	212	160	180	14	50	79
FN40-200NA	40	65	612	100	125	95	320	250	180	225	14	65	90
FN40-250NE	40	65	612	100	125	95	320	250	180	225	14	65	91
FN40-250ND	40	65	612	100	125	95	320	250	180	225	14	65	96
FN40-250NC	40	65	612	100	125	95	320	250	180	225	14	65	92
FN40-250NB	40	65	612	100	125	95	320	250	180	225	14	65	90
FN40-315C	40	65	787	125	125	95	345	280	225	250	14	65	220
FN40-250NA	40	65	644	100	125	95	320	250	180	225	14	65	137
FN40-315B	40	65	880	125	125	95	345	280	225	250	14	65	311







DN	a1	b1	c1	d1	e1
40	88	110	150	4	19
65	122	145	185	4	19

Hydraulic performance table and prices

Model	P2		l/min	0	300	333	417	500	583	667	750	833	917	1000	1083	1167	1250	1333	1417	1500	1667	1833	2000	Code	Price €	Discount cat.
	kW	Hp	m³/h	0	18	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100	110	120			
FN50-125C	2,2	3		17,5	17,2	17	16,7	16	15,2	14,3	13,2	12	10	8										FN50125C	**968,00**	E1
FN50-125B	3	4		21,2		20,6	20	19,4	18,6	17,6	16,6	15,3	13,9	13	11									FN50125B	**1.238,00**	E1
FN50-125A	4	5,5		24,2			24,4	23,9	23,2	22,4	21,4	20,3	19,1	17,7	17									FN50125A	**1.337,00**	E1
FN50-160B	5,5	7,5		32,5			32	31,1	30,1	28,8	27,5	25,9	24,2	22,3	20,3	18,4	16,6							FN50160B	**1.531,00**	E1
FN50-160A	7,5	10		40,4			40	39,4	38,7	37,7	36,6	35,3	33,7	31,9	29,8	27,7	25,7							FN50160A	**1.808,00**	E1
FN50-160NC	5,5	7,5		30,5						27,7	27	26	24,9	23,6	22,1	20,6	20							FN50160NC	**1.550,00**	E1
FN50-160NB	7,5	10		39						36,8	35,8	35	33,7	32,3	30,7	29	27	25						FN50160NB	**1.826,00**	E1
FN50-160NA	9,2	12,5		44						40,6	40	39	38	36	35,2	34	32	30	28	26				FN50160NA	**1.969,00**	E1
FN50-200SD	9,2	12,5		50			49	48	47	46	45	42,5	39,75	37										FN50200SD	**2.184,00**	E1
FN50-200SC	11	15	mwc	54			53	52,5	52	51	50	48	46	44	31									FN50200SC	**2.571,00**	E1
FN50-200SB	12,5	17		59			58	57,5	57	55,5	54	53	51,5	50	43	38,5	34							FN50200SB	**2.703,00**	E1
FN50-200SA	15	20		62			61,5	61,5	61	60	59	57,5	55,75	54	50	47,5	45	36						FN50200SA	**2.984,00**	E1
FN50-200NC	15	20		53,3								49,2	48	46,5	46	44,5	43	41,5	38	36,5	30,5			FN50200NC	**2.987,00**	E1
FN50-200NB	17	23		61,5								56,4	55	53	51,5	50	48	47	45	42	37			FN50200NB	**3.669,00**	E1
FN50-200NA	22	30		71								66,8	66	65	64	62	60	58	55	52,5	45,5	38	31,5	FN50200NA	**4.028,00**	E1
FN50-250ND	17	23		69			68,5	67	66	64	62,5	61	58	56	50,5	47,3	44,2	40,2						FN50250ND	**3.894,00**	E1
FN50-250NC/B	18,5	25		80			79	78,5	77,5	76	74,5	72	70	68	64,5	61,5								FN50250NC/B	**4.040,00**	E1
FN50-250NC/A	20	27		80			79	78,5	77,5	76	74,5	72	70	68	64,5	61,5	58	54	50					FN50250NC/A	**4.183,00**	E1
FN50-250NB/B	22	30		88,5			88	87	86,5	85	84	82	80	77	74	71	68							FN50250NB/B	**4.398,00**	E1
FN50-250NB/A	25	34		88,5			88	87	86,5	85	84	82	80	77	74	71	68	64,5	60	57	44			FN50250NB/A	**5.967,00**	E1
FN50-250NA	30	40		100,5			100	99,5	99	98	97	94,5	93	90,5	87,5	84	80	76,5	70	65	54			FN50250NA	**6.409,00**	E1

Dimensions and weights

Model	DNm	DNa	Fig.	f	a	m1	m2	n1	n2	h1	h2	s	b	Peso Kg
FN50125C	50	65	1	366	100	100	70	240	190	132	160	14	50	40
FN50125B	50	65	1	400	100	100	70	240	190	132	160	14	50	42
FN50125A	50	65	1	426	100	100	70	240	190	132	160	14	50	45
FN50160B	50	65	1	450	100	100	70	265	212	160	180	14	50	54
FN50160A	50	65	2	490	100	100	70	265	212	160	180	14	50	62
FN50160NC	50	65	2	450	100	100	70	265	212	160	180	14	50	54
FN50160NB	50	65	2	490	100	100	70	265	212	160	180	14	50	62
FN50160NA	50	65	2	530	100	100	70	265	212	160	180	14	50	74
FN50200SD	50	60	2	509	100	100	70	265	212	160	200	14	50	90
FN50200SC	50	60	2	509	100	100	70	265	212	160	200	14	50	96
FN50200SB	50	60	2	564	100	100	70	265	212	160	200	14	50	100
FN50200SA	50	60	2	564	100	100	70	265	212	160	200	14	50	108
FN50200NC	50	65	2	576	100	100	70	265	212	160	200	14	50	89
FN50200NB	50	65	2	644	100	100	70	265	212	160	200	14	50	92
FN50200NA	50	65	2	644	100	100	70	265	212	160	200	14	50	136
FN50250ND	50	65	2	644	100	125	95	320	250	180	225	14	65	136
FN50250NC/B	50	65	2	644	100	125	95	320	250	180	225	14	65	136
FN50250NC/A	50	65	2	644	100	125	95	320	250	180	225	14	65	138
FN50250NB/B	50	65	2	644	100	125	95	320	250	180	225	14	65	140
FN50250NB/A	50	65	2	714	100	125	95	320	250	180	225	14	65	250
FN50250NA	50	65	2	714	100	125	95	320	250	180	225	14	65	250

fig.1

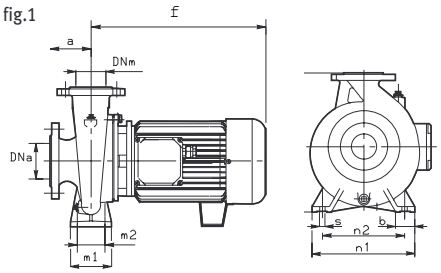
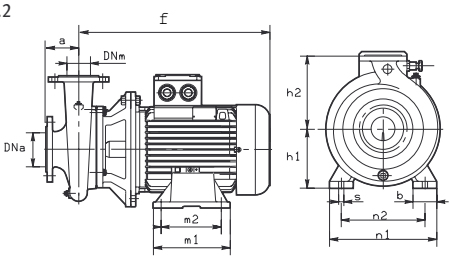
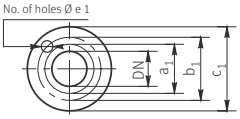


fig.2





DN	a1	b1	c1	d1	e1
50	102	125	165	4	19
65	122	145	185	4	19

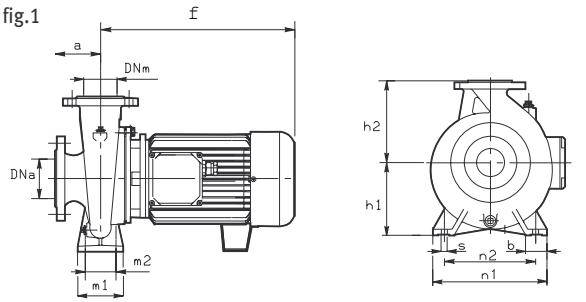
Hydraulic performance table and prices

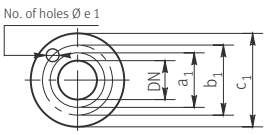
Model	P2		l/min	0	500	583	667	750	833	917	1000	1083	1167	1250	1333	1500	1667	1833	2000	2167	2333	2500	2667	2833	Code	Price €	Discount cat.
	kW	Hp	m³/h	0	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170			
FN65-125D	3	4	mwc	12,5	12	12	11,9	11,8	11,6	11,4	11	10	9,5	8	7,4										FN65125D	**1.377,00**	E1
FN65-125C	4	5,5		17	16	15,9	15,6	15,5	15,4	15,2	15	14,6	14,2	13,5	13	11	8								FN65125C	**1.488,00**	E1
FN65-125B	5,5	7,5		21,5	21	21	20,9	20,9	20,8	20,7	20,5	20	19,9	19	18,1	16,4	14								FN65125B	**1.556,00**	E1
FN65-125A	7,5	10		26,5	26	26	25,9	25,9	25,8	25,7	25,6	25,4	25	24,5	24	22	19,4	17							FN65125A	**1.831,00**	E1
FN65-160C	9,2	12,5		32,8	32,3	31,8	31,6	31,2	30,8	30,6	30,1	29,3	28,7	27,8	27,1	25,2	23,1	20,3							FN65160C	**2.213,00**	E1
FN65-160B	11	15		38,8	38,3	38,1	37,8	37,5	37,3	37	36,5	36,2	35,7	35,3	34,5	32	30	27,8							FN65160B	**2.612,00**	E1
FN65-160A	15	20		43	43	42,8	42,7	42,5	42,3	41,9	41,7	41,4	40,8	40,4	39,7	38,2	36,2	33,5	30	28					FN65160A	**2.724,00**	E1
FN65-200NC	18,5	25		44,3			46,2	45,9	45,4	45	44	43,1	42,1	41,1	39,9	37,8	35,3	32,4	29,5	25,8	21,4				FN65200NC	**4.047,00**	E1
FN65-200NB	22	30		50,7			53,6	53,6	53,6	53	52,9	52,3	51,6	50,8	50	48,3	46,4	44,3	41,7	38,5	35,3	31,3	27,5		FN65200NB	**4.406,00**	E1
FN65-200NA	30	40		64			66,5	66,3	66	65,7	65,3	65	64,7	64,1	63,7	62	60	58	55,6	53	50	47	43	38	FN65200NA	**6.910,00**	E1
FN65-250NC	22	30		68,2					68,8	68,5	68	67,5	67	66,3	65,3	63,8	62,8								FN65250NC	**5.116,00**	E1
FN65-250NB	30	40		76					75	74,7	74,4	74	73,5	73	72,5	72	69	67	63,5						FN65250NB	**7.777,00**	E1
FN65-250NA	37	50		89					89,5	89,2	89	88,5	88	87	86,5	85	84	82	79,5	76					FN65250NA	**8.084,00**	E1

Dimensions and weights

Model	DNm	DNa	Fig.	f	a	m1	m2	n1	n2	h1	h2	s	b	Kg
FN65-125D	65	80	1	400	100	125	95	280	212	160	180	14	65	42
FN65-125C	65	80	1	426	100	125	95	280	212	160	180	14	65	48
FN65-125B	65	80	1	450	100	125	95	280	212	160	180	14	65	55
FN65-125A	65	80	2	500	100	125	95	280	212	160	180	14	65	60
FN65-160C	65	80	2	534	100	125	95	280	212	160	200	14	65	80
FN65-160B	65	80	2	534	100	125	95	280	212	160	200	14	65	82
FN65-160A	65	80	2	534	100	125	95	280	212	160	200	14	65	88
FN65-200NC	65	80	2	644	100	125	95	320	250	180	225	14	65	245
FN65-200NB	65	80	2	644	100	125	95	320	250	180	225	14	65	250
FN65-200NA	65	80	2	720	100	125	95	320	250	180	225	14	65	270
FN65-250NC	65	80	2	680	100	160	120	360	280	200	250	18	80	260
FN65-250NB	65	80	2	750	100	160	120	360	280	200	250	18	80	274
FN65-250NA	65	80	2	750	100	160	120	360	280	200	250	18	80	285

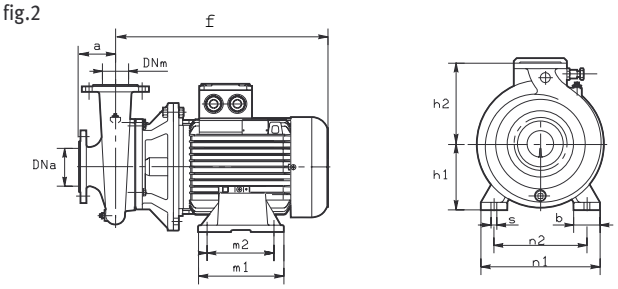
fig.1





DN	a1	b1	c1	d1	e1
65	122	145	185	4	19
80	138	160	200	4	19

fig.2



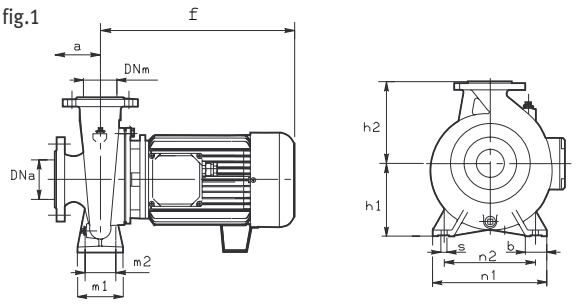
Hydraulic performance table and prices

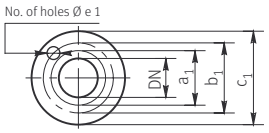
Model	P2		l/min	0	1083	1167	1250	1333	1500	1667	1833	2000	2167	2333	2500	2750	3000	3250	3500	3750	4167	4583	Code	Price €	Discount cat.
	kW	Hp	m³/h	0	65	70	75	80	90	100	110	120	130	140	150	165	180	195	210	225	250	275			
FN80-160G	5,5	7,5	mwc	17,8	17,3	16,5	16	15,8	15	14	13,1	12	11	10									FN80160G	**2.041,00**	**E1**
FN80-160F	7,5	10		20,2	19,9	19,4	19	18,5	18	17	16	15	14,5	13,7	11,7	10,5							FN80160F	**2.325,00**	**E1**
FN80-160E	9,2	12,5		25,3	25,3	25	24,8	24,5	24,2	23	22	21	20,2	19,1	18,1	16							FN80160E	**2.503,00**	**E1**
FN80-160D	11	15		26,5	26,5	26,3	26,1	25,9	25,4	24,5	23,8	23	21,9	20,8	19,6	17,6	14,8						FN80160D	**2.752,00**	**E1**
FN80-160C	15	20			30,5	30,5	30,5	30,2	30	28,5	27,5	26,5	25	24	22,4	20	18,5	17					FN80160C	**3.250,00**	**E1**
FN80-160B	18,5	25			37	36	35,8	35,2	34,5	33,6	32,6	31,8	30,5	29,5	28,4	26,4	24,1	21					FN80160B	**4.167,00**	**E1**
FN80-160A	22	30			40,3	40,2	40	39,9	39,4	39	38,2	37,5	36,6	35,9	34,7	32,8	30,5	28,8	25,5	23,5			FN80160A	**4.579,00**	**E1**
FN80-200B	30	40					50	52,5	52	51,3	50,5	50,4	48,9	47,9	46,5	45	44	41	39	37	31		FN80200B	**7.724,00**	**E1**
FN80-200A	37	50					56	58,7	58,4	58	57,5	57	56	55,3	54,6	53,4	51,3	49,2	46,7	44	39	35	FN80200A	**8.644,00**	**E1**

Dimensions and weights

Model	DNm	DNa	Fig.	f	a	m1	m2	n1	n2	h1	h2	s	b	Kg
FN80-160G	80	100	2	455	125	125	95	320	250	180	225	14	65	64
FN80-160F	80	100	2	496	125	125	95	320	250	180	225	14	65	75
FN80-160E	80	100	2	576	125	125	95	320	250	180	225	14	65	84
FN80-160D	80	100	2	576	125	125	95	320	250	180	225	14	65	90
FN80-160C	80	100	2	576	125	125	95	320	250	180	225	14	65	95
FN80-160B	80	100	2	644	125	125	95	320	250	180	225	14	65	137
FN80-160A	80	100	2	644	125	125	95	320	250	180	225	14	65	139
FN80-200B	80	100	2	750	125	125	95	345	280	180	250	14	65	274
FN80-200A	80	100	2	750	125	125	95	345	280	180	250	14	65	280

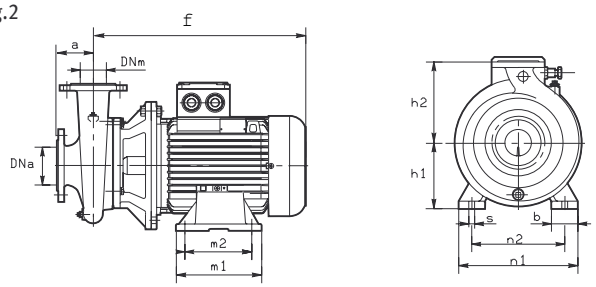
fig.1





DN	a1	b1	c1	d1	e1
80	138	160	200	8	19
100	158	180	220	8	19
125	188	210	250	8	19

fig.2



FN4 EN 733 END SUCTION

Cast iron close coupled end suction pumps

Applications
Movement of clean water and fluids, chemically non-aggressive and non-explosive.
Water supply and pressure boosting, irrigation.
Circulation of hot water and liquid refrigerants in air conditioning systems.
Washing plants, sprinkler systems.

Materials
Pump body, door seal discs and impeller in cast iron EN-GJL-250.
Shaft: Stainless steel.
Mechanical seal: Silicon carbide/ aluminium oxide.

Upon request
Counter flange

Limitations
Liquid temperature range -15 to +120° C.
Ambient temperature max 40 °C.
Maximum working pressure 10 bar.

Motor
Three-phase asynchronous motor.
IP55 grade protection.
Class F insulation.
Rotation speed 2900 rpm.
Standard voltage:
230/400V 50Hz up to 4 kW,
400/690V 50Hz for higher power.
Efficiency class in accordance with IEC 60034-30
IE2 for powers up to 0.75 kW
IE3 for powers greater than 0.75 kW
ALL MOTORS IN THE FN SERIES ARE COMPATIBLE WITH OPERATION UNDER INVERTERS

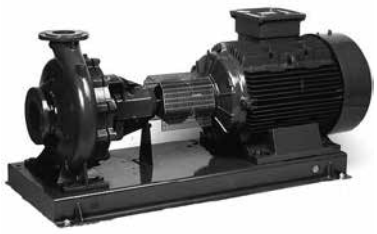
Version available upon request

FNX version with stainless steel hydraulics and **FNB** with bronze hydraulics.

FNS version with rigid coupling

FNF version with free axis

FNFZ version with free axis on crankcase

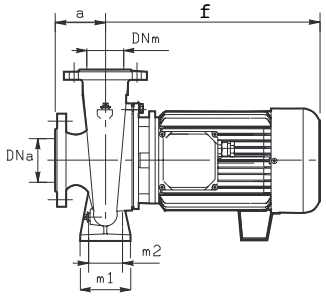


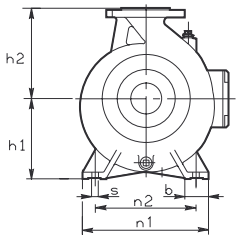
Hydraulic performance table and prices

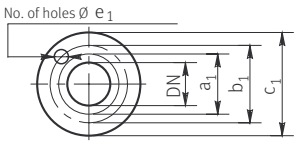
Model	P2		l/min	0	50	67	100	133	167	200	233	267	300	333	417	Code	Price €	Discount cat.
	kW	Hp	m³/h	0	3	4	6	8	10	12	14	16	18	20	25			
FN4 32-160SA	0,55	0,75	mwc	11	10	9,5	9	8,5	7,5	6,5	4,5					FN432160SA	**813,00**	**E1**
FN4 32-200NA	1,1	1,5		16,5	16,2	16	15,9	15,2	14	12,7	11,2	9,5	7,5			FN432200NA	**1202,00**	**E1**
FN4 32-250SB	2,2	3		21					20,5	20,5	20	19,5	19,5	19	18	FN432250SB	**1824,00**	**E1**
FN4 32-250SA	3	4		23,5					23	23	22,5	22,5	22	21,5	21	FN432250SA	**1884,00**	**E1**

Dimensions and weights

Model	DNm	DNa	f	a	m1	m2	n1	n2	h1	h2	s	b	Kg
FN4 32-160SA	50	32	335	80	100	70	240	190	132	160	14	50	29
FN4 32-200NA	32	50	370	80	100	70	240	190	160	180	14	50	42
FN4 32-250SB	50	32	396	100	125	95	320	250	180	225	14	65	48
FN4 32-250SA	50	32	396	100	125	95	320	250	180	225	14	65	50







DN	a1	b1	c1	d1	e1
32	78	100	140	4	19
50	102	125	165	4	19

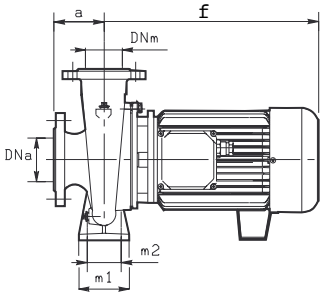
FN4 40, 50 EN 733 END SUCTION

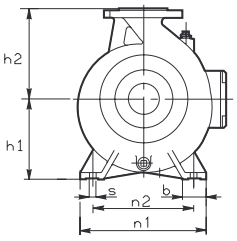
Hydraulic performance table and prices

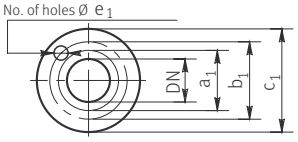
Model	P2		l/min	0	100	133	167	200	233	267	300	333	417	500	583	667	750	883	917	1000	Code	Price €	Discount cat.
	Kw	Hp	m³/h	0	6	8	10	12	14	16	18	20	25	30	35	40	45	50	55	60			
FN4 40-125SA	0,55	0,75		8			7,5	7,5	7,5	7,5	7,5	7	6	6	5,5						FN440125SA	**843,00**	**E1**
FN4 40- 160NA	0,75	1		9,5			9	9	9	9	9	8,5	7,5	7,5	6,5	4,5					FN440160NA	**1.004,00**	**E1**
FN4 40-200A	1,1	1,5		14	13,6	13,3	12,9	12,4	11,7	10,9	10,1	9,2	6,7								FN440200A	**1.293,00**	**E1**
FN4 40-250NC	2,2	3		20	19,9	19,6	19,4	19,2	19	18,6	18,3	17,8	16,6	15	12,6						FN440250NC	**1.960,00**	**E1**
FN4 40-250NA	3	4		23,7	23,6	23,5	23,3	23,1	22,8	22,5	22,2	21,7	20,3	18,5	16,2						FN440250NA	**2.075,00**	**E1**
FN4 40-315C	4	5,5		25,2	25,1	25	24,9	24,8	24,7	24,6	24,4	24,2	23,4	22,5	21,1	19,5					FN440315C	**2.648,00**	**E1**
FN4 40-315B	5,5	7,5		30,9	30,7	30,6	30,6	30,5	30,4	30,3	30	29,8	29,1	27,9	26,7	25,5	23,5	21,1			FN440315B	**3.452,00**	**E1**
FN4 40-315A	9,2	12,5		40			40	40	39,9	39,7	39,6	39,5	39	38,4	37,6	36,7	35,6	34	32,6	30,8	FN440315A	**3.981,00**	**E1**
FN4 50-125A	0,55	0,75	mwc	6,4			6,3	6,2	6,1	6	5,8	5,6	5,1	4,2							FN450125A	**856,00**	**E1**
FN4 50-200SB	1,1	1,5		12,5							12	11,5	10,5	10,5	9,5	8,5	7,5				FN4 50200SB	**1.418,00**	**E1**
FN4 50-160NA	1,1	1,5		9			8,9	8,8	8,7	8,6	8,5	8,2	7,7	6,7	5,7						FN450160NA	**1.360,00**	**E1**
FN4 50-160NB	1,1	1,5		10,5								10	10	10	9,5	9	8	7,5	7		FN450160NB	**1.273,00**	**E1**
FN4 50-200SA	1,5	2		16						14,5	14	14	13,5	13,5	12	11,5	10	9			FN4 50200SA	**1.566,00**	**E1**
FN4 50-200NA	3	4		18			18	17,9	17,8	17,7	17,5	17	16,8	16	14,8	13,8	12,2	10,8	9,2		FN450200NA	**2.051,00**	**E1**
FN4 50-200NB	2,2	3		16						15,5	15,5	15,5	15	15	14	13,5	11,5	11	10	8,5	FN450200NB	**1.972,00**	**E1**
FN4 50-250ND	2,2	3		16,8			16,5	16,3	16,1	15,9	15,8	15,4	14,8	13,7	12,5	10					FN450250ND	**2.124,00**	**E1**
FN4 50-250NA	4	5,5		24			23,8	23,7	23,6	23,5	23,4	23,3	22,9	22,1	21,2	20	18	16,4	13,9	11,3	FN450250NA	**2.153,00**	**E1**

Dimensions and weights

Model	DNm	DNa	f	a	m1	m2	n1	n2	h1	h2	s	b	Kg
FN4 40-125A	40	65	335	80	100	70	210	160	112	140	14	50	30
FN4 40-160NA	40	65	372	80	100	70	240	190	132	160	14	50	34
FN4 40-200A	40	65	371	100	100	70	265	212	160	180	14	50	43
FN4 40-250NC	40	65	400	100	125	95	320	250	180	225	14	65	55
FN4 40-250NA	40	65	431	100	125	95	320	250	180	225	14	65	58,5
FN4 40-315C	40	65	478	100	125	95	345	280	225	250	14	65	94
FN4 40-315B	40	65	566	100	125	95	345	280	225	250	14	65	114
FN4 40-315A	40	65	646	100	125	95	345	280	225	250	14	65	119
FN4 50-125A	50	65	333	100	100	70	240	190	132	160	14	50	32
FN4 50-200SB	50	65	377	100	100	70	265	212	160	180	14	50	48
FN4 50-160NA	50	65	371	100	100	70	265	212	160	180	14	50	42
FN4 50-160NB	50	65	372	100	100	71	265	212	160	180	13	50	45
FN4 50-200SA	50	65	406	100	100	70	265	212	160	180	14	50	49
FN4 50-200NA	50	65	436	100	100	70	265	212	160	200	14	50	57
FN4 50-200NB	50	65	401	100	100	70	265	212	160	180	14	50	52
FN4 50-250ND	50	65	400	100	125	95	320	250	180	225	14	65	59
FN4 50-250NA	50	65	450	100	125	95	320	250	180	225	14	65	68,5







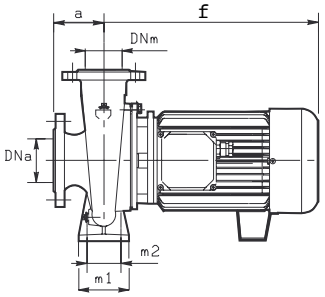
DN	a1	b1	c1	d1	e1
40	88	110	150	4	19
50	102	125	165	4	19
65	122	145	185	4	19

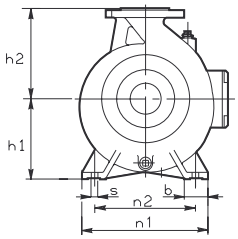
Hydraulic performance table and prices

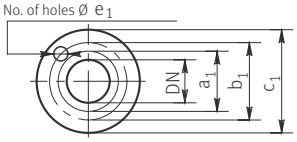
Model	P2		l/min	0	417	500	583	667	750	833	917	1000	1083	1167	1250	1333	1500	1667	1833	2000	2167	2333	2500	2667	3000	3333	3833	Code	Price €	Discount cat.
	kW	Hp	m³/h	0	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	180	200	230			
FN4 65-125SA	0,75	1		6,1	5,6	5,4	5	4,7	4,2	3,7	3,1																	FN465125SA	**1.227,00**	E1
FN4 65-160A	1,5	2		10,4	10,3	10,1	9,8	9,5	9,1	8,7	8,2	7,6																FN465160A	**1.622,00**	E1
FN4 65-200A	3	4		13,5	13,4	13	12,7	12,2	11,7	11,1	10,4	9,6	8,6	7,5	6,12	4												FN465200A	**2.189,00**	E1
FN4 65-200NA	3	4		17,7	17,3	16,9	16,5	16	15,5	15	14,2	13,4	12,4	11,6	10,5	9,3												FN465200NA	**2.195,00**	E1
FN465250SB	4	5,5		19,5	19	19		18,5	18	17,5	17	16	15	14	13													FN465250SB	**2.373,00**	E1
FN465250SA																												FN465250SA	**2.951,00**	E1
FN4 65-315C	9,2	12,5		28,5	28,3	28,2	28	27,7	27,3	27	26,4	25,7	25	24,7	23,5	23	21,2	19	16,2	14								FN465315C	**4.254,00**	E1
FN4 65-315B	11	15		33		32,6	32,4	32,2	32	31,7	31,4	31	30,5	30,4	30	29	27	24,3	21,3	18,8								FN465315B	**4.905,00**	E1
FN4 65-315A	15	20		43		42	41,3	41	40,5	40,2	40	39,2	38,6	37,9	37,2	36,5	35	33,2	31	28,8	26,3	23,7						FN465315A	**5.358,00**	E1
FN4 80-160C	2,2	3	mwc	8,2				7,8	7,6	7,4	7,2	7	6,7	6,3	6	5,6	5	4,5										FN480160C	**2.167,00**	E1
FN4 80-160A	2,2	3		9,6				9,4	9,3	9,2	9	8,8	8,5	8,2	7,9	7,6	6,8	6	5,4	4,5								FN480160A	**2.167,00**	E1
FN4 80-200B	4	5,5		13				12,8	12,7	12,6	12,5	12,4	12,2	12	11,8	11,5	10,9	10,1	9,2	8,1	7							FN480200B	**2.407,00**	E1
FN4 80-200A	5,5	7,5		14,5				14,5	14,5	14,5	14,4	14,3	14,2	14,1	13,9	13,8	13,3	12,8	12	11,1	10	8,7	7,3					FN480200A	**3.079,00**	E1
FN4 80-250C	7,5	10		18				17,8	17,7	17,5	17,3	17	16,7	16,5	16,2	16	15,6	15,4	13,3	13	12,3	10,8	9,7	8,4				FN480250C	**3.570,00**	E1
FN4 80-250A	9,2	12,5		24,2				23,6	23,5	23,3	23,2	23	22,8	22,6	22,3	22,1	21,6	21,1	20,4	19,7	18,9	17,9						FN480250A	**4.051,00**	E1
FN4 80-315C	11	15		28,1				28,1	28,1	28,1	28,1	27,9	27,7	27,3	27,2	26,9	26,4	25,5	25	23,8	23	22	21,3					FN480315C	**5.398,00**	E1
FN4 80-315B	15	20		34				34	34	34	33,9	33,8	33,7	33,5	33,2	33	32,5	32,2	31,4	30,5	29,5	28,6	27,6	26,3				FN480315B	**5.850,00**	E1
FN4 80-315A	22	30		40,7								40,3	40,2	40	39,8	39,6	39,1	38,6	38,2	37,5	36,5	35,8	34,6	33,7	31	28,5	24	FN480315A	**7.086,00**	E1

Dimensions and weights

Model	DNm	DNa	f	a	m1	m2	n1	n2	h1	h2	s	b	Kg
FN4 65-125A	65	80	373	100	125	95	280	212	160	180	14	65	35
FN4 65-160A	65	80	376	100	125	95	280	212	160	200	14	65	43,5
FN4 65-200A	65	80	436	100	125	95	280	250	180	225	14	65	60,5
FN4 65-200NA	65	80	436	100	125	95	280	250	180	225	14	65	64
FN465250SB	65	80	485	100	160	120	360	280	200	250	18	80	81
FN465250SA	65	80	545	100	160	120	360	280	200	250	18	80	96,5
FN4 65-315C	65	80	646	125	160	120	400	315	225	280	18	80	177
FN4 65-315B	65	80	709	125	160	120	400	315	225	280	18	80	196
FN4 65-315A	65	80	750	125	160	120	400	315	225	280	18	80	225
FN4 80-160C	80	100	405	125	125	95	320	250	180	225	14	65	56
FN4 80-160A	80	100	405	125	125	95	320	250	180	225	14	65	60
FN4 80-200B	80	100	485	125	125	95	345	280	180	250	14	65	74,5
FN4 80-200A	80	100	564	125	125	95	345	280	180	250	14	65	95
FN4 80-250C	80	100	647	125	160	120	400	315	200	280	18	80	115
FN4 80-250A	80	100	647	125	160	120	400	315	200	280	18	80	116
FN4 80-315C	80	100	709	125	160	120	400	315	250	315	18	80	262
FN4 80-315B	80	100	750	125	160	120	400	315	250	315	18	80	293
FN4 80-315A	80	100	775	125	160	120	400	315	250	315	18	80	321







DN	a1	b1	c1	d1	e1
65	88	110	150	4	19
80	138	160	200	8	19
100	158	180	220	8	19

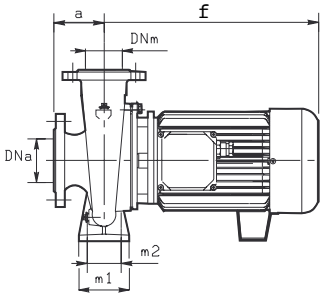
FN4 100, 125 EN 733 END SUCTION

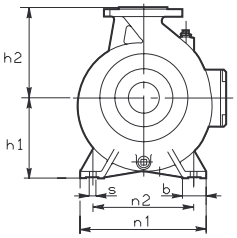
Hydraulic performance table and prices

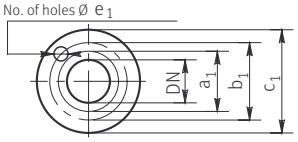
Model	P2		l/min	0	1000	1083	1167	1333	1500	1667	1833	2000	2167	2333	2500	2667	2833	3000	3333	3750	4167	4583	5000	5833	6250	Code	Price €	Discount cat.
	kW	Hp	m³/h	0	60	65	70	80	90	100	110	120	130	140	150	160	170	180	200	225	250	275	300	350	375			
FN4 100-200C	5,5	7,5		10,5	10,4	10,3	10,1	9,8	9,4	9	8,4	7,9	7,1	6,5	5,6											FN4100200C	**3.525,00**	**E1**
FN4 100-200A	7,5	10		15	15	15	14,9	14,6	14,3	13,9	13,5	13,1	12,5	11,8	11,1	10,4	9,5	8								FN4100200A	**3.660,00**	**E1**
FN4 100-250B	9,2	12,5		20,9	20,9	20,8	20,7	20,4	20,2	20	19,5	19	18,5	17,5	17	16,5	15	12,4	10	7						FN4100250B	**4.345,00**	**E1**
FN4 100-250A	15	20		24,7	24,7	24,7	24,7	24,4	24	23,8	23,5	23,3	22,6	22,2	21,4	20,6	20	18,2	15,9	13,4	10					FN4100250A	**5.566,00**	**E1**
FN4 100-315C	18,5	25	mwc	28	28	27,9	27,8	27,6	27,5	27	26,7	26,2	25,8	25,4	24,8	24,4	23,6	22,3	20,2	18						FN4100315C	**6.516,00**	**E1**
FN4 100-315B	22	30				33,7	33,7	33,5	33,5	33,4	33,3	32,9	32,5	32,5	32,1	31,8	31,5	30,5	28,8	27,6	25,6					FN4100315B	**7.105,00**	**E1**
FN4 125-250B	11	15					17,2	16,9	16,8	16,7	16,5	16,2	15,9	15,6	15,3	15	14,7	14	13,5	12,4	10,5	9	7			FN4125250B	**5.417,00**	**E1**
FN4 125-250A	18,5	25								24	23,9	23,8	23,6	23,4	23,1	22,9	22,6	22,4	21,6	21	20	18,7	17,5	13,8	12	FN4125250A	**6.601,00**	**E1**
FN4 125-250AB	15	20		21				20,5	20,5	20,5	20	20	20	20	19,5	19,5	19	19	18,5	18	17	15,5	14	12		FN4125250AB	**5.869,00**	**E1**
FN4 125-315C	18,5	25								26,5	26,3	25,8	25,5	25	24,7	24,4	23,8	23,2	21,9	20,1	18	15,3	12,5			FN4125315C	**7.272,00**	**E1**

Dimensions and weights

Model	DNm	DNa	f	a	m1	m2	n1	n2	h1	h2	s	b	Kg
FN4 100-200C	125	100	604	125	160	120	360	275	200	280	18	80	133
FN4 100-200A	125	100	646	125	160	120	360	275	200	280	18	80	136
FN4 100-250B	125	100	646	140	160	120	400	315	225	280	18	80	179
FN4 100-250A	125	100	750	140	160	120	400	315	225	280	18	80	210
FN4 100-315C	125	100	775	140	160	120	400	315	250	315	18	80	337
FN4 100-315B	125	100	775	140	160	120	400	315	250	315	18	80	349
FN4 125-250B	150	125	750	140	160	120	400	315	250	355	18	80	246
FN4 125-250A	150	125	775	140	160	120	400	315	250	355	18	80	290
FN4 125-250AB	125	150	751	140	160	120	400	315	250	335	18	80	241,5
FN4 125-315C	150	125	790	140	200	150	500	400	280	355	24	100	462







DN	a1	b1	c1	d1	e1
100	158	180	220	8	19
125	188	210	250	8	19
150	212	240	285	8	22

ESPA

ESPA Innovative Solutions | 55 Since 1962

IN-LINE CIRCULATORS

NMT-S In-line circulators

Circulator pumps with permanent magnet motors

Applications
For water circulation in heating circuits, refrigeration, air conditioning and ventilation, in domestic and industrial applications.
Variable motor rotation speed to allow hydraulic performance to be immediately adjusted according to the needs of the system.
Permits energy saving of up to 60% in respect to the conventional three-speed circulator pumps. Operates silently without the need for maintenance.
Threaded connections.

Motor
Permanent magnet motors with automatic speed adjustment.
Continuous service.
IP44 grade Protection.
Class H insulation.
Built-in thermal protection.
EEI ≤ 0.23

Upon request
Threaded couplings, see pg. 165.

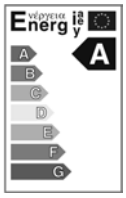
Materials
Cast iron pump body.
Manufactured using high quality materials.

Limitations
Liquid temperature range -10 to +95° C.

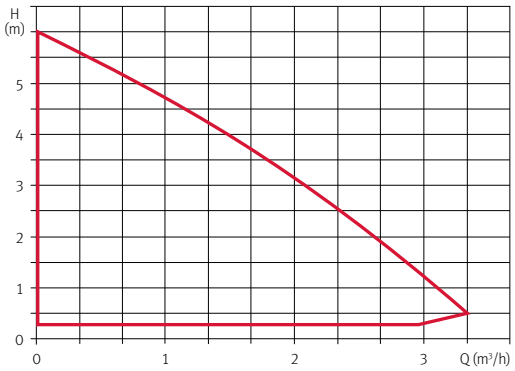
Identification data

NMT 15 / 40 - 130

- 130 — Pump length (mm)
- 40 — Maximum pressure 10 (m)
- 15 — Attachment diameter
- NMT — Series



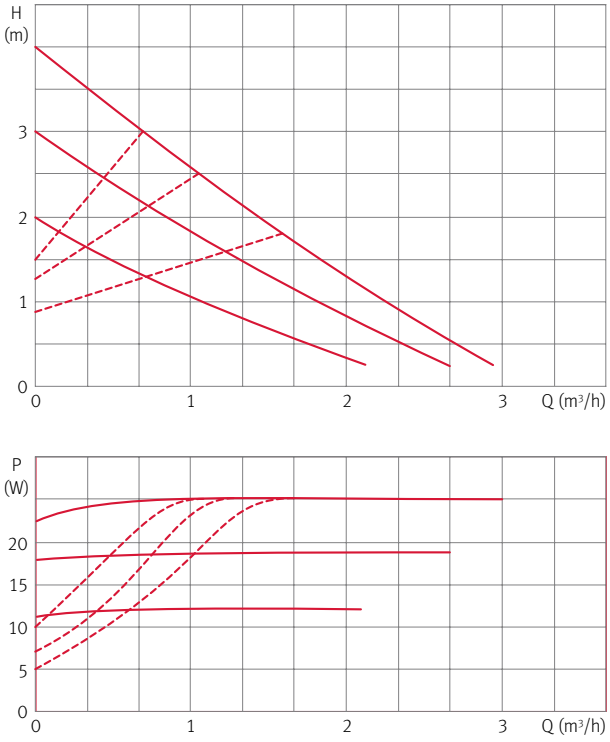
Performance range to 50 Hz



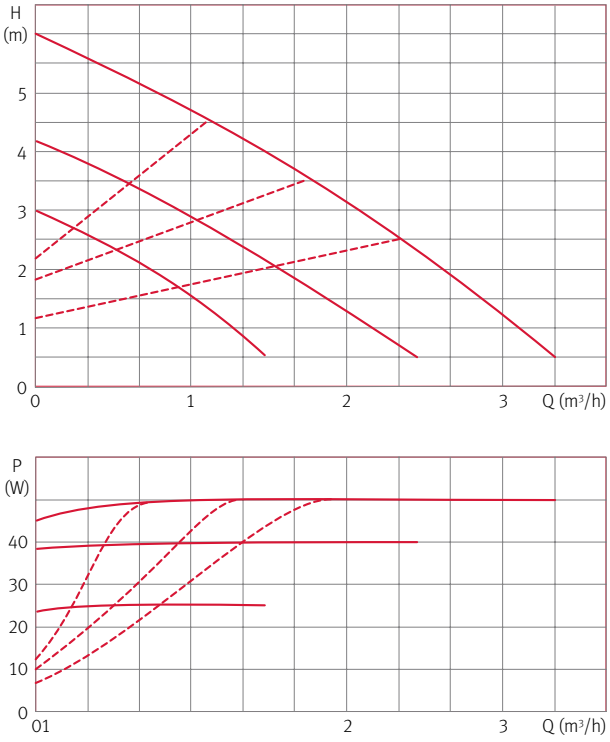
Hydraulic performance table and prices (1~230 V)

Model	Attachment diameter	System pressure (bar)	P1 max. (W)	I max. (A)	EEI	Max flow-rate. (m³/h)	Max. pressure (m.c.a.)	Water temperature (°C)	Minimum working pressure 50 °C (bar)	80 °C (bar)	110 °C (bar)	Fitting length (mm)	Weight (kg)	Code	Price €	Discount cat.
NMT 15/40-130	DN 15	PN 10	25	0,2	0,20	2,6	4,0	5 a 95	0,05	0,4	1,1	130	1,9	NMT15-40-130	**171,00**	C3
NMT 15/60-130	DN 15	PN 10	50	0,4	0,22	3,7	6,0	5 a 95	0,05	0,4	1,1	130	1,9	NMT15-60-130	**178,00**	C3
NMT 15/80-130	DN 15	PN 10	55		0,20		8,0	5 a 95	0,05	0,4	1,1	130	2,0	NMT15-80-130	**200,00**	C3
NMT 20/40-130	DN 20	PN 10	25	0,2	0,20	2,6	4,0	5 a 95	0,05	0,4	1,1	130	2,1	NMT20-40-130	**171,00**	C3
NMT 20/60-130	DN 20	PN 10	50	0,4	0,22	3,7	6,0	5 a 95	0,05	0,4	1,1	130	2,1	NMT20-60-130	**178,00**	C3
NMT 20/80-130	DN 20	PN 10	55		0,20		8,0	5 a 95	0,05	0,4	1,1	130	2,1	NMT20-80-130	**200,00**	C3
NMT 25/40-130	DN 25	PN 10	25	0,2	0,20	2,6	4,0	5 a 95	0,05	0,4	1,1	130	2,1	NMT25-40-130	**171,00**	C3
NMT 25/60-130	DN 25	PN 10	50	0,4	0,22	3,7	6,0	5 a 95	0,05	0,4	1,1	130	2,1	NMT25-60-130	**178,00**	C3
NMT 25/80-130	DN 25	PN 10	55		0,20		8,0	5 a 95	0,05	0,4	1,1	130	2,2	NMT25-80-130	**200,00**	C3
NMT 20/40-180	DN 20	PN 10	25	0,2	0,20	2,6	4,0	5 a 95	0,05	0,4	1,1	180	2,2	NMT20-40-180	**171,00**	C3
NMT 20/60-180	DN 20	PN 10	50	0,4	0,22	3,7	6,0	5 a 95	0,05	0,4	1,1	180	2,3	NMT20-60-180	**178,00**	C3
NMT 20/80-180	DN 20	PN 10	55		0,20		8,0	5 a 95	0,05	0,4	1,1	180	2,3	NMT20-80-180	**200,00**	C3
NMT 25/40-180	DN 25	PN 10	25	0,2	0,20	2,6	4,0	5 a 95	0,05	0,4	1,1	180	2,3	NMT25-40-180	**171,00**	C3
NMT 25/60-180	DN 25	PN 10	50	0,4	0,22	3,7	6,0	5 a 95	0,05	0,4	1,1	180	2,3	NMT25-60-180	**178,00**	C3
NMT 25/80-180	DN 25	PN 10	55		0,20		8,0	5 a 95	0,05	0,4	1,1	180	2,4	NMT25-80-180	**200,00**	C3
NMT 32/40-180	DN 32	PN 10	25	0,2	0,20	2,6	4,0	5 a 95	0,05	0,4	1,1	180	2,7	NMT32-40-180	**171,00**	C3
NMT 32/60-180	DN 32	PN 10	50	0,4	0,22	3,7	6,0	5 a 95	0,05	0,4	1,1	180	2,7	NMT32-60-180	**178,00**	C3
NMT 32/80-180	DN 32	PN 10	55		0,20		8,0	5 a 95	0,05	0,4	1,1	180	2,5	NMT32-80-180	**200,00**	C3

NMT-S / 40 Performance curves

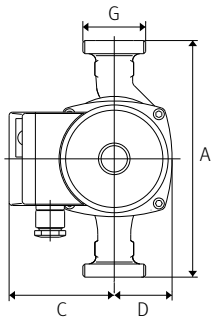


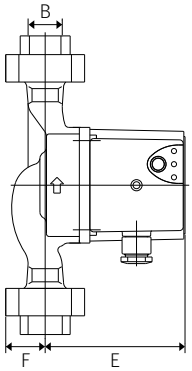
NMT-S /60 Performance curves



Dimensions

Model	A	B	C	D	E	F	G
NMT 15/40-130	130	15	80	48	108	27	1"
NMT 15/60-130	130	15	80	48	108	27	1"
NMT 15/80-130	130	15	80	48	108	27	1"
NMT 20/40-130	130	20	80	48	108	29	1 1/4"
NMT 20/60-130	130	20	80	48	108	29	1 1/4"
NMT 20/80-130	130	20	80	48	108	29	1 1/4"
NMT 25/40-130	130	25	80	48	108	32	1 1/2"
NMT 25/60-130	130	25	80	48	108	32	1 1/2"
NMT 25/80-130	130	25	80	48	108	32	1 1/2"
NMT 20/40-180	180	20	80	48	108	29	1 1/4"
NMT 20/60-180	180	20	80	48	108	29	1 1/4"
NMT 20/80-180	180	20	80	48	108	29	1 1/4"
NMT 25/40-180	180	25	80	48	108	32	1 1/2"
NMT 25/60-180	180	25	80	48	108	32	1 1/2"
NMT 25/80-180	180	25	80	48	108	32	1 1/2"
NMT 32/40-180	180	32	80	48	108	40	2"
NMT 32/60-180	180	32	80	48	108	40	2"
NMT 32/80-180	180	32	80	48	108	40	2"





ISAN In-line circulators

Pumps for sanitary water

Applications
3-speed pump for circulating water .

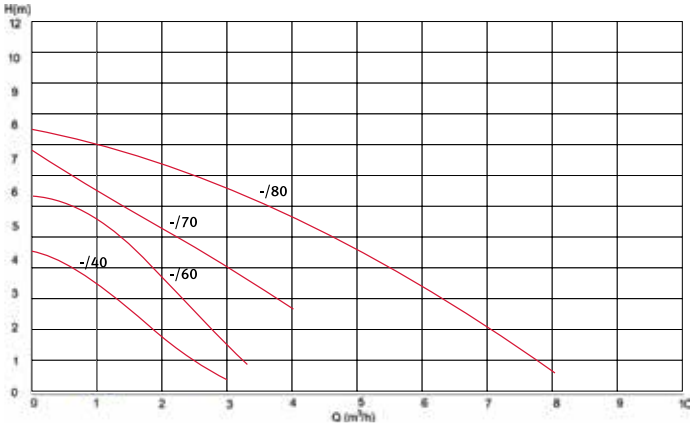
Motor
Degree of protection IP 44.
Insulation class H.

Materials
Bronze body, robust construction, maintenance-free operation

Hydraulic performance table and prices (1~230 V)

Model	Attachment diameter	P1 max. (W)	System pressure		Fitting length (mm)	Weight (kg)	Code	Price €	Discount cat.
			75 °C (bar)	90 °C (bar)					
ISAN 15/40-130	DN 15	50	0,05	0,28	130	2,4	ISAN15-40	**189,00**	**C1**
ISAN 15/60-130	DN 15	90	0,05	0,28	130	2,5	ISAN15-60	**192,00**	**C1**
ISAN 20/40-130	DN 20	50	0,05	0,28	130	2,4	ISAN20-40	**189,00**	**C1**
ISAN 20/60-130	DN 20	90	0,05	0,28	130	2,4	ISAN20-60	**192,00**	**C1**
ISAN 20/70-130	DN 20	140	0,05	0,28	130	2,55	ISAN20-70	**231,00**	**C1**
ISAN 25/40-130	DN 25	50	0,05	0,28	130	2,45	ISAN25-40	**189,00**	**C1**
ISAN 25/60-130	DN 25	90	0,05	0,28	130	2,5	ISAN25-60	**192,00**	**C1**
ISAN 25/70-130	DN 25	140	0,05	0,28	130	2,45	ISAN25-70	**231,00**	**C1**

Performance curves at 2900 rpm



ISAN-F In-line circulators

Flange pump for sanitary water

Applications
3-speed pumps for sanitary water.

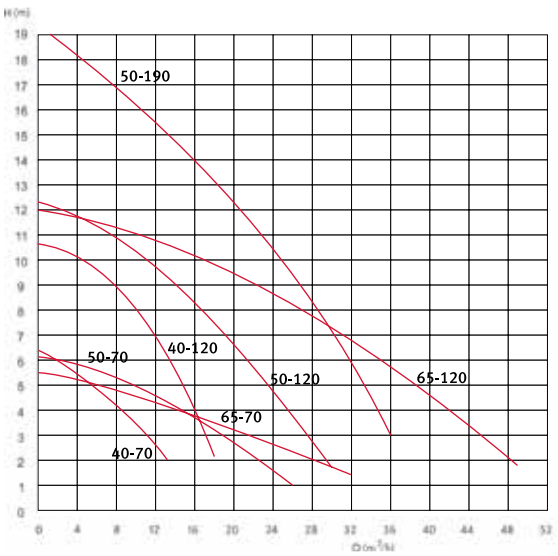
Motor
Degree of protection IP 44.
Insulation class H.

Materials
Flanged, bronze body, robust construction, maintenance-free operation.

Hydraulic performance table and prices (1~230 V)

Model	Attachment diameter	P1 max. (W)	System pressure (bar)	Fitting length (mm)	Code	Price €	Discount cat.
ISAN-F 40-70F	DN 40	295	6/10	250	ISAN40-70F	**1.678,00**	**C1**
ISAN-F 40-120F	DN 40	578	6/10	250	ISAN40-120F	**1.724,00**	**C1**
ISAN-F 50-70F	DN 50	470	6/10	280	ISAN50-70F	**1.887,00**	**C1**
ISAN-F 50-120F	DN 50	1020	6/10	280	ISAN50-120F	**2.005,00**	**C1**
ISAN-F 65-70F	DN 65	600	6/10	340	ISAN65-70F	**2.037,00**	**C1**
ISAN-F 65-120F	DN 65	1560	6/10	340	ISAN65-120F	**2.186,00**	**C1**

Performance curves at 2900 rpm



FL, FL4 In-line circulators

Inline electric monobloc pumps in cast iron

Applications
Water supply and pressure boosting, irrigation.
Circulation of hot water and liquid refrigerants in air conditioning systems.

Materials
Pump body, shield, lantern and cover in cast iron.
Impeller: cast iron (stainless steel or bronze on request at extra cost). Shaft: AISI 420 stainless steel. Mechanical seal: silicone carbide / silicone carbide.

Limitations
Maximum ambient temperature: +40 °C.
Temperature of pumped liquid: -10 °C + 130 °C.
Maximum operating pressure: 10 bar.
Maximum liquid viscosity: 5 °E.

Motor
Three-phase asynchronous motor.
Degree of protection IP55.
Class F insulation.
Standard voltage:
230/400V 50Hz up to 4 kW,
400/690V 50Hz for higher power.
FLD: 2-pole motor (2900 rpm).
FLD4: 4-pole motor (1450 rpm).

Counter flanges available on request.

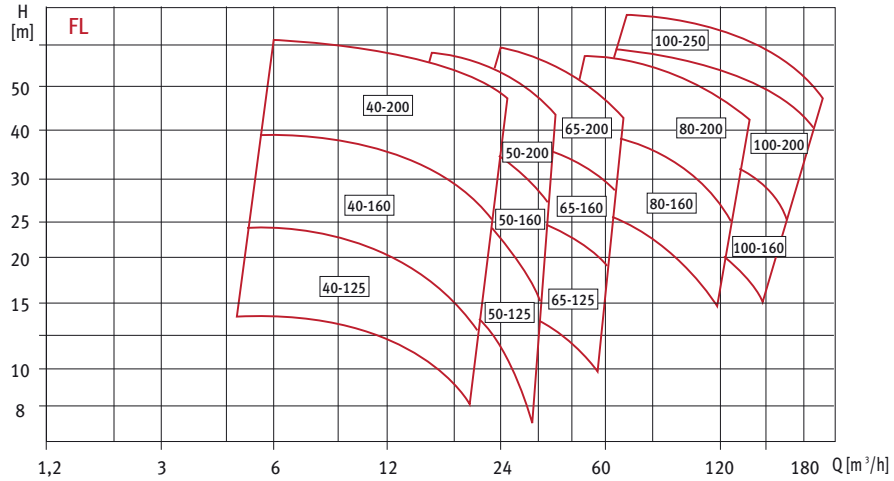
Hydraulic performance table and prices

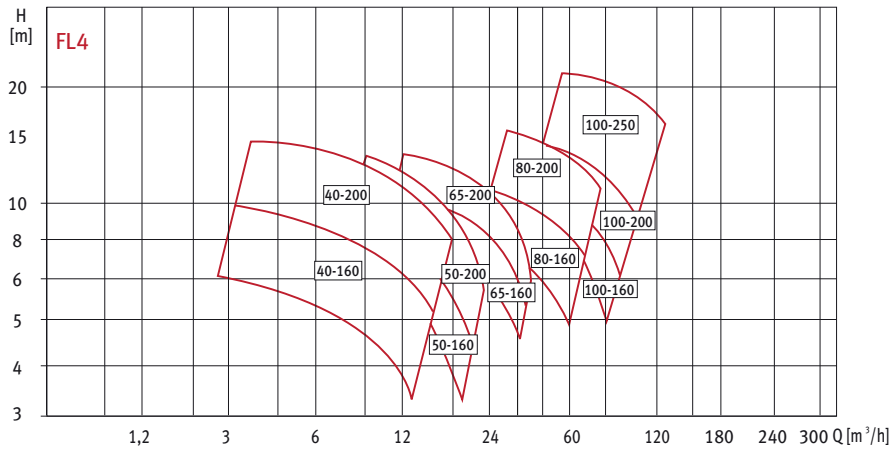
Model	RPM	P2		I (A)	l/min	0	100	125	150	175	200	225	250	300	350	400	450	500	Code	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	6	7,5	9	10,5	12	13,5	15	18	21	24	27	30			
FL 40x100B	2900	0,75	0,55	1,5	mwc	12,1	11,8	11,4	11	10,5	9,9	9,3	8,6	7					9000002003	**978,00**	**E1**
FL 40x100A	2900	1	0,75	1,7		14	13,5	13,3	13	12,5	12	11,4	10,7	9	7				9000002002	**1.110,00**	**E1**
FL 40x125C	2900	1	0,75	1,7		17	15,3	14,5	13,7	12,7	11,6	10,4	9	6					9000002012	**1.110,00**	**E1**
FL 40x125B	2900	1,5	1,1	2,5		21,5	20,5	20	19	18	17	15,8	14,5	11,3	7,5				9000002009	**1.134,00**	**E1**
FL 40x125A	2900	2	1,5	3,4		25	24,5	24,1	23,5	22,8	22	21	19,5	16,5	13				9000002006	**1.177,00**	**E1**
FL 40x160C	2900	3	2,2	4,4		29	28,5	28	27,5	26,5	25,5	24,4	23	20	15				9000002027	**1.480,00**	**E1**
FL 40x160B	2900	4	3	5,9		34,2	33,5	33	32,5	32	31	30	29	26	22,5				9000002024	**1.681,00**	**E1**
FL 40x160A	2900	4	3	5,9		38,5	38	37,5	37	36	35	34	33	30	26,5				9000002021	**1.681,00**	**E1**
FL 40x200C	2900	5,5	4	7,8		47	47	46,5	45,8	45	44	43	42	39,5	36,3	33			9000002046	**1.834,00**	**E1**
FL 40x200B	2900	7,5	5,5	10,4		55	55	54,7	54,3	53,5	53	52	51	48,5	45,7	42,3			9000002040	**2.308,00**	**E1**
FL 40x200A	2900	10	7,5	14,2		62,5	62	61,5	61	60	59,2	58,2	57,3	55	52,5	49	45	40	9000002034	**2.505,00**	**E1**

Model	RPM	P2		I (A)	l/min	0	40	50	75	100	125	150	175	200	225	250	300	Code	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	2,4	3	4,5	6	7,5	9	10,5	12	13,5	15	18			
FL4 40x100X	1450	0,33	0,25	0,9	mwc	3,7	3,65	3,6	3,45	3,3	2,9	2,5						9000002004	**856,00**	**E1**
FL4 40x125Y	1450	0,33	0,25	0,9		4,8	4,5	4,4	4	3,5	2,95	2,2						9000002018	**868,00**	**E1**
FL4 40x125X	1450	0,33	0,25	0,9		6,2		6,2	6,1	5,8	5,3	4,6	3,8	2,9				9000002015	**868,00**	**E1**
FL4 40x160X	1450	0,5	0,37	1,3		9,5		9,4	9,2	8,9	8,4	7,7	6,9	5,8	4,7			9000002030	**904,00**	**E1**
F4L 40x200Y	1450	1	0,75	1,8		13,5		13	12,8	12,4	11,9	11,3	10,6	9,8	9	8	6	9000002054	**1.436,00**	**E1**
FL4 40x200X	1450	1,5	1,1	2,5		15			14,6	14,3	13,9	13,3	12,6	11,8	10,9	10	8	9000002051	**1.533,00**	**E1**

FL, FL4 40 In-line circulators

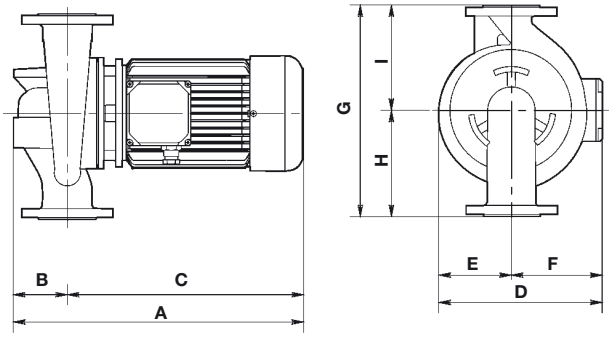
Field of application

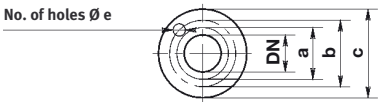




Dimensions and weights

Model	DNm DNa	A	B	C	D	E	F	G	H	I	Kg
FL 40x100B	40 PN6	445	90	355	184	77	107	260	140	120	16
FL 40x100A	40 PN6	445	90	355	184	77	107	260	140	120	16
FL 40x125C	40 PN16	425	100	325	200	93	107	300	160	140	24
FL 40x125B	40 PN16	445	100	345	211	93	118	300	160	140	25
FL 40x125A	40 PN16	445	100	345	211	93	118	300	160	140	26
FL 40x160C	40 PN16	445	100	345	226	108	118	320	170	150	30
FL 40x160B	40 PN16	485	100	385	257	108	149	320	170	150	35
FL 40x160A	40 PN16	485	100	385	257	108	149	320	170	150	36
FL 40x200C	40 PN16	525	100	425	286	127	159	380	200	180	50
FL 40x200B	40 PN16	535	100	435	286	127	159	380	200	180	55
FL 40x200A	40 PN16	535	100	435	286	127	159	380	200	180	55
FL4 40x100X	40 PN6	445	90	355	184	77	107	260	140	120	16
FL4 40x125Y	40 PN6	425	100	325	200	93	107	300	160	140	20
FL4 40x125X	40 PN16	425	100	325	200	93	107	300	160	140	20
FL4 40x160X	40 PN16	425	100	325	215	108	107	320	170	150	23
F4L 40x200Y	40 PN16	445	100	345	245	127	118	380	200	180	30
FL4 40x200X	40 PN16	445	100	345	245	127	118	380	200	180	31





DN : Flanges

DN	a	b	c	d	e
40 PN6	80	100	130	4	14
40 PN10	88	110	150	4	18

FL, FL4 50 In-line circulators

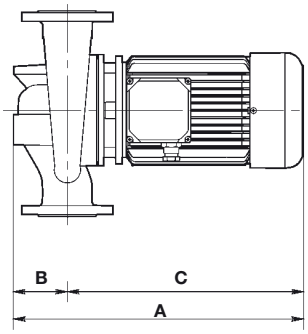
Hydraulic performance table and prices

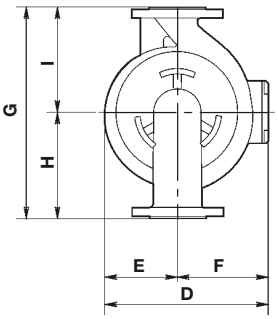
Model	RPM	P2		I (A)	l/min	0	250	300	350	400	450	500	600	Price €	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	15	18	21	24	27	30	36			
FL 50x125C	2900	2	1,5	3,4	mwc	16,5	15,5	15	14,1	13	11,8	10,5	7	9000002081	**1.411,00**	**E1**
FL 50x125B	2900	3	2,2	4,4		20	19	18,5	17,5	16,5	15,5	14,5	10,5	9000002078	**1.548,00**	**E1**
FL 50x125A	2900	4	3	5,9		25	24,5	24	23,5	23	22	20,5	17	9000002075	**1.680,00**	**E1**
FL 50x160B	2900	4	3	5,9		31	30	29	28	26,5	25	23	18	9000002096	**1.726,00**	**E1**
FL 50x160A	2900	5,5	4	7,8		38	36,5	35,5	34,5	33,5	32,5	31	27	9000002091	**1.833,00**	**E1**
FL 50x200C	2900	7,5	5,5	10,4		47	45,7	44,2	42,8	41,1	39,2	37	31	9000002115	**2.346,00**	**E1**
FL 50x200B	2900	10	7,5	14,2		51,5	51	50	49	47,5	45	42,5	37	9000002109	**2.539,00**	**E1**
FL 50x200A	2900	10	7,5	14,2		58,5	56,5	55,5	54,5	53	51	49	44	9000002103	**2.616,00**	**E1**

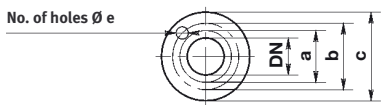
Model	RPM	P2		I (A)	l/min	0	100	125	150	175	200	225	250	300	350	400	Code	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	6	7,5	9	10,5	12	13,5	15	18	21	24			
FL4 50x125Y	1450	0,33	0,25	0,9	mwc	4,8	4,6	4,5	4,3	4,1	3,9	3,6	3,3	2,4			9000002087	**1.008,00**	**E1**
FL4 50x125X	1450	0,5	0,37	1,3		6,4	6,3	6,2	6,1	6	5,8	5,6	5,25	4,4	3		9000002084	**1.059,00**	**E1**
FL4 50x160X	1450	0,75	0,55	1,6		9,2	8,8	8,6	8,3	8	7,7	7,3	6,9	5,9	4,5		9000002099	**1.033,00**	**E1**
F4L 50x200Y	1450	1,5	1,1	2,5		13	12,7	12,4	12,1	11,7	11,2	10,7	10	8,6	6,8		9000002123	**1.618,00**	**E1**
FL4 50x200X	1450	1,5	1,1	2,5		14,5	14,2	14	13,8	13,4	13	12,5	11,8	10,2	8,3	6	9000002120	**1.643,00**	**E1**

Dimensions and weights

Model	DNm DNa	A	B	C	D	E	F	G	H	I	Kg
FL 50x125C	50	455	110	345	221	103	118	320	180	140	27
FL 50x125B	50	455	110	345	221	103	118	320	180	140	28
FL 50x125A	50	495	110	385	252	103	149	320	180	140	32
FL 50x160B	50	495	110	385	262	113	149	340	180	160	32
FL 50x160A	50	535	110	425	272	113	159	340	180	160	42
FL 50x200C	50	545	110	435	290	131	159	400	220	180	56
FL 50x200B	50	545	110	435	290	131	159	400	220	180	57
FL 50x200A	50	545	110	435	290	131	159	400	220	180	64
FL4 50x125Y	50	435	110	325	210	103	107	320	180	140	21
FL4 50x125X	50	435	110	325	210	103	107	320	180	140	22
FL4 50x160X	50	435	110	325	220	113	107	340	180	160	25
F4L 50x200Y	50	495	110	385	280	131	149	400	220	180	36
FL4 50x200X	50	495	110	385	280	131	149	400	220	180	36







DN : Flanges

DN	a	b	c	d	e
50	102	125	165	4	18

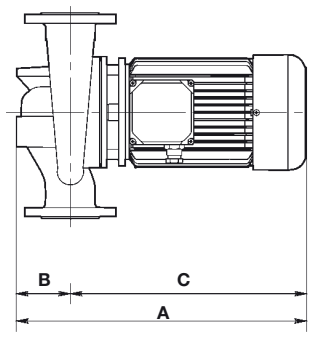
Hydraulic performance table and prices

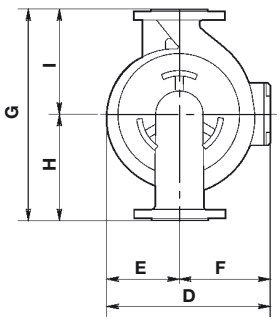
Model	RPM	P2		I (A)	l/min	0	400	450	500	600	700	800	900	1000	Code	Price €	Discount cat.
		Hp	kW	3~4 00 V	m³/h	0	24	27	30	36	42	48	54	60			
FL 65x125C	2900	3	2,2	4,4	mwc	18,5	17	16,5	16	15	13	11	9		9000002150	**1.562,00**	**E1**
FL 65x125B	2900	4	3	5,9		22,5	21	20,5	20	19	17,5	16	14	12	9000002147	**1.740,00**	**E1**
FL 65x125A	2900	5,5	4	7,8		26,5	25,5	25,3	25	24	23	21,5	20	18	9000002142	**1.854,00**	**E1**
FL 65x160B	2900	7,5	5,5	10,4		33	32,5	32	31,5	30,5	29,5	28	26	23,5	9000002166	**2.439,00**	**E1**
FL 65x160A	2900	10	7,5	14,2		37	37	36,5	36	35	34	32,5	31	29	9000002160	**2.707,00**	**E1**
FL 65x200B	2900	15	11	19,8		52	50,7	50,2	49,5	48	45,6	42,9	39,7	37	9000002189	**3.440,00**	**E1**
FL 65x200A	2900	20	15	27		58,5	58	57,5	57	55	53	50	46,5	42,5	9000002186	**3.954,00**	**E1**

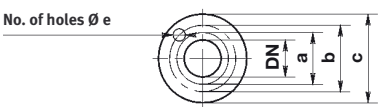
Model	RPM	P2		I (A)	l/min	0	200	225	250	300	350	400	450	500	600	700	Code	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	12	13,5	15	18	21	24	27	30	36	42			
FL4 65x125Y	1450	0,5	0,37	1,3	mwc	5,4	5,2	5,1	5	4,8	4,5	4,05	3,5				9000002156	**1.045,00**	**E1**
FL4 65x125X	1450	0,75	0,55	1,6		6,5	6,2	6,1	6	5,8	5,5	5,2	4,9	4,4			9000002153	**1.070,00**	**E1**
FL4 65x160Y	1450	1	0,75	1,8		8,2	8,2	8,1	7,9	7,7	7,4	7	6,5	5,9	4		9000002183	**1.326,00**	**E1**
F4L 65x200Y	1450	1,5	1,1	2,5		12,5	12,4	12,2	12	11,5	10,8	10	9	8	5,8		9000002195	**1.586,00**	**E1**
FL4 65x200X	1450	2	1,5	3,4		14,4	14,3	14,2	14,1	13,7	13	12,3	11,3	10,2	7,8	5	9000002192	**1.710,00**	**E1**

Dimensions and weights

Model	DNm DNa	A	B	C	D	E	F	G	H	I	Kg
FL 65x125C	65	485	140	345	226	108	118	360	205	155	32
FL 65x125B	65	525	140	385	257	108	149	360	205	155	39
FL 65x125A	65	565	140	425	267	108	159	360	205	155	43
FL 65x160B	65	575	140	435	281	122	159	400	220	180	54
FL 65x160A	65	680	140	540	306	122	184	400	220	180	61
FL 65x200B	65	680	140	540	320	136	184	440	240	200	70
FL 65x200A	65	680	140	540	320	136	184	440	240	200	77
FL4 65x125Y	65	465	140	325	215	108	107	360	205	155	25
FL4 65x125X	65	465	140	325	215	108	107	360	205	155	26
FL4 65x160Y	65	480	140	345	240	122	118	400	220	180	32
F4L 65x200Y	65	525	140	385	285	136	149	440	240	200	38
FL4 65x200X	65	525	140	385	285	136	149	440	240	200	40







DN : Flanges

DN	a	b	c	d	e
65	122	145	185	4	18

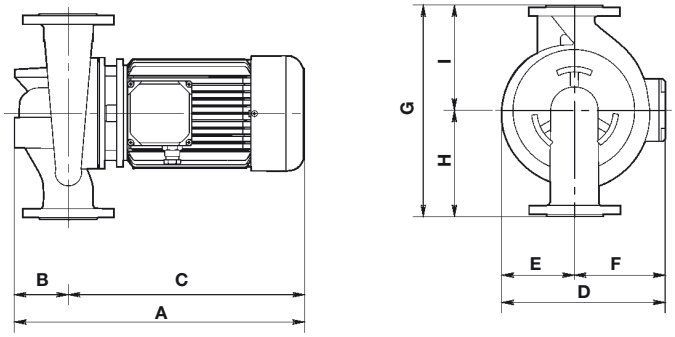
Hydraulic performance table and prices

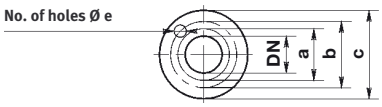
Model	RPM	P2		I (A)	l/min	0	700	800	900	1000	1250	1500	1750	2000	2250	Code	Price €	Discount cat.
		Hp	kW	3~400 V	m³/h	0	42	48	54	60	75	90	105	120	135			
FL 80x160C	2900	15	11	19,8	mwc	31	30,3	30	29,5	29	26,5	24	20,5	16		9000002219	**3.579,00**	**E1**
FL 80x160B	2900	20	15	27		37	36,5	36	35,2	34,5	32,7	30,1	27	23	19	9000002216	**3.939,00**	**E1**
FL80x160A	2900	20	15	27		42	40,8	40,5	40	39,4	38	35,5	33	29	24	9000002213	**3.939,00**	**E1**
FL 80x200D	2900	20	15	27		44		44	43,5	43	41,5	39	35,5	31,5		9000002243	**4.233,00**	**E1**
FL 80x200C	2900	25	18,5	33,3		51		50,2	49,9	49,5	48,5	46,5	43,5	39,5	35	9000002240	**7.708,00**	**E1**
FL 80x200B	2900	30	22	38,6		57		57	56,5	56	55	53,5	51	47,7	42,5	9000002237	**8.395,00**	**E1**

Model	RPM	P2		I (A)	l/min	0	300	350	400	450	500	600	700	800	900	1000	1100	1200	Code	Price €	Discount cat.
		Hp	kW	3~400 V	m³/h	0	18	21	24	27	30	36	42	48	54	60	66	72			
FL4 80x160Y	1450	1,5	1,1	2,5	mwc	8,7	8,6	8,5	8,4	8,3	8,2	8	7,5	6,8	6	5			9000002231	**1.584,00**	**E1**
FL4 80x160X	1450	2	1,5	3,4		10,3	10,2	10,1	10	9,9	9,8	9,4	9	8,5	7,7	6,5			9000002228	**1.777,00**	**E1**
F4L 80x200Y	1450	3	2,2	5,1		12,6			12,5	12,4	12,3	12,1	11,7	11,1	10,5	9,6	8,5		9000002249	**2.254,00**	**E1**
FL4 80x200X	1450	4	3	6,5		15,4					15,2	15	14,6	14,3	13,6	12,8	12	11	9000002246	**2.685,00**	**E1**

Dimensions and weights

Model	DNm DNa	A	B	C	D	E	F	G	H	I	Kg
FL 80x160C	80	455	110	345	221	103	118	320	180	140	27
FL 80x160B	80	455	110	345	221	103	118	320	180	140	28
FL80x160A	80	495	110	385	252	103	149	320	180	140	32
FL 80x200D	80	495	110	385	262	113	149	340	180	160	32
FL 80x200C	80	535	110	425	272	113	159	340	180	160	42
FL 80x200B	80	545	110	435	290	131	159	400	220	180	56
FL4 80x160Y	80	435	110	325	210	103	107	320	180	140	21
FL4 80x160X	80	435	110	325	210	103	107	320	180	140	22
F4L 80x200Y	80	495	110	385	280	131	149	400	220	180	36
FL4 50x200X	80	495	110	385	280	131	149	400	220	180	36





DN : Flanges

DN	a	b	c	d	e
80	138	160	200	4	18

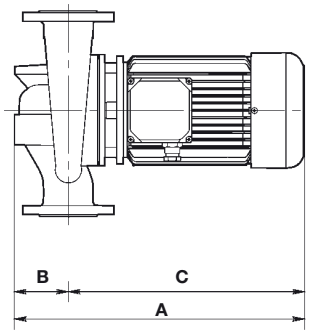
Hydraulic performance table and prices

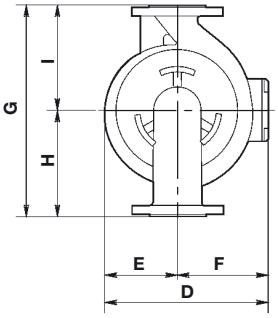
Model	RPM	P2		I (A)	l/min	0	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	Code	Price €	Discount cat.
		Hp	kW	3~400 V	m³/h	0	60	75	90	105	120	135	150	165	180	210			
FL 100x160D	2900	15	11	19,8		24,8	23,8	23,1	22	20,8	19,5	18	16,5	15			9000002279	**3.687,00**	**E1**
FL 100x160C	2900	20	15	27		29,4	28,5	27,8	27	25,8	24,5	23,2	21,7	20,1	18,5		9000002276	**4.055,00**	**E1**
FL 100x160B	2900	20	15	27		35	34	33,3	32,6	31,7	30,6	29,2	27,6	26	24,2		9000002273	**4.251,00**	**E1**
FL 100x200D	2900	25	18,5	33,3	mwc	42	42	41	40	38,5	37	35,2	33	30,5	28		9000002297	**7.840,00**	**E1**
FL 100x200C	2900	30	22	38,6		47	47	46,5	45,5	44,5	43	41,2	39	36,5	34		9000002294	**8.617,00**	**E1**
FL 100x200B	2900	40	30	52,7		55,8	54,8	54	53,2	52	50,5	49	47	45	42,5	37	9000002291	**9.834,00**	**E1**
FL 100x200A	2900	50	37	65		57	57	56,6	56,4	55,8	55	54	52,5	50,5	48	42	9000002288	**11.636,00**	**E1**
FL 100x250D	2900	50	37	65		68,2		68	67	66	65	63,2	61	58,3	55	47	9000002315	**11.530,00**	**E1**

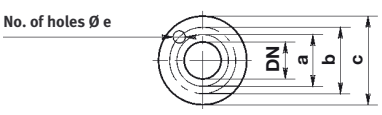
Model	RPM	P2		I (A)	l/min	0	600	700	800	900	1000	1100	1200	1300	1500	1750	2000	Code	Price €	Discount cat.
		Hp	kW	3~400 V	m³/h	0	36	42	48	54	60	66	72	78	90	105	120			
FL4 100x160Y	1450	2	1,5	3,4		8	7,7	7,5	7,3	7	6,7	6,4	6,1	5,8	5			9000002285	**1.733,00**	**E1**
FL4 100x160X	1450	3	2,2	5,1		10	9,7	9,5	9,3	9	8,8	8,5	8,2	7,9	7,1	6		9000002282	**2.081,00**	**E1**
FL4 100x200Y	1450	4	3	8,5	mwc	12,8	12	11,7	11,5	11,3	11	10,5	10	9,5	8,5	7		9000002312	**2.413,00**	**E1**
FL4 100x200X	1450	5,5	4	6,5		15	14,5	14,2	14	13,8	13,5	13,1	12,7	12,2	11	9	6,5	9000002307	**3.084,00**	**E1**
FL4 100x250Y	1450	7,5	5,5	10,8		20				19	18,5	18	17,5	17	16	14	12	9000002325	**3.875,00**	**E1**
FL4 100x250X	1450	10	7,5	14,4		23,5				22,2	21,9	21,6	21,2	20,9	20	18,5	16,8	9000002319	**4.293,00**	**E1**

Dimensions and weights

Model	DNm DNa	A	B	C	D	E	F	G	H	I	Kg
FL 100x160D	100	730	190	540	320	136	184	525	300	225	76
FL 100x160C	100	730	190	540	320	136	184	525	300	225	84
FL 100x160B	100	730	190	540	320	136	184	525	300	225	91
FL 100x200D	100	890	190	710	386	156	230	550	300	250	135
FL 100x200C	100	890	190	710	386	156	230	550	300	250	153
FL 100x200B	100	995	190	805	413	156	257	550	300	250	195
FL 100x200A	100	995	190	805	413	156	257	550	300	250	213
FL 100x250D	100	995	190	805	433	176	257	600	320	280	220
FL4 100x160Y	100	575	190	385	285	136	149	525	300	225	45
FL4 100x160X	100	615	190	425	295	136	159	525	300	225	50
FL4 100x200Y	100	615	190	425	315	156	159	550	300	250	66
FL4 100x200X	100	625	190	435	315	156	159	550	300	250	73
FL4 100x250Y	100	730	190	540	360	176	184	600	320	280	96
FL4 100x250X	100	730	190	540	360	176	184	600	320	280	106







DN : Flanges

DN	a	b	c	d	e
100	158	180	220	8	18

FLD, FLD4 In-line circulators

Twin inline electric monobloc pumps in cast iron

Applications
Water supply and pressure boosting, irrigation.
Circulation of hot water and liquid refrigerants in air conditioning systems.

Materials
Pump body, shield, lantern and cover in cast iron.
Impeller: cast iron (stainless steel or bronze on request at extra cost). Shaft: AISI 420 stainless steel. Mechanical seal: silicone carbide / silicone carbide.

Limitations
Maximum ambient temperature: +40° C.
Temperature of pumped liquid: -10°C+130°C.
Maximum operating pressure: 10 bar.
Maximum liquid viscosity: 5 °E.

Motor
Three-phase asynchronous motor.
Degree of protection IP55.
Class F insulation.
Standard voltage:
230/400V 50Hz up to 4 kW,
400/690V 50Hz for higher power.
FLD: 2-pole motor (2900 rpm)
FLD4: 4-pole motor (1450 rpm)
Counter flanges available on request.

Hydraulic performance table and prices

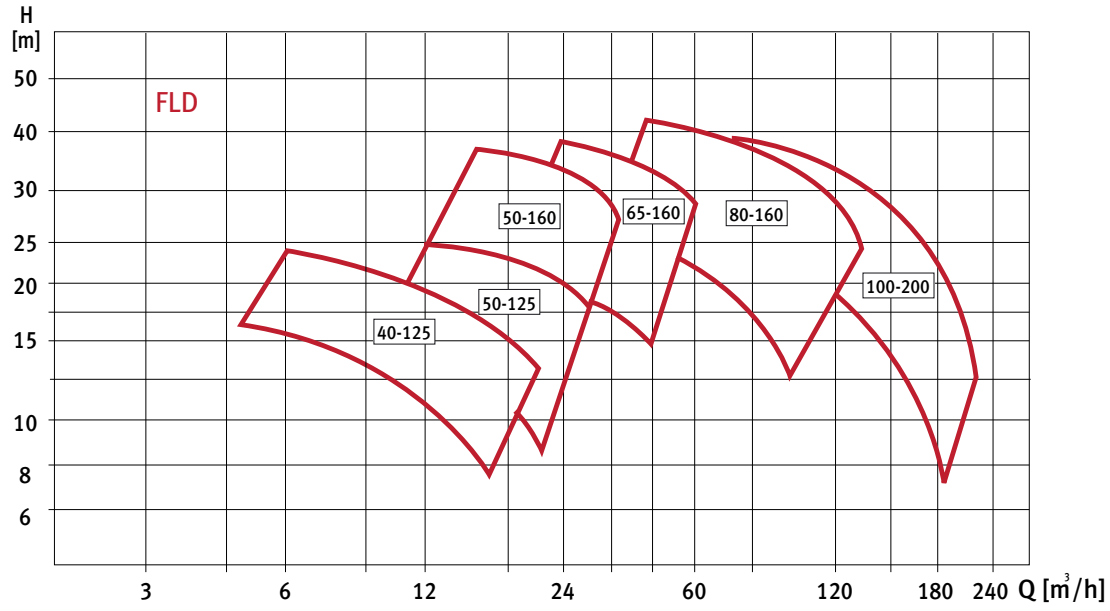
FLD 40, FLD 50, FLD 65

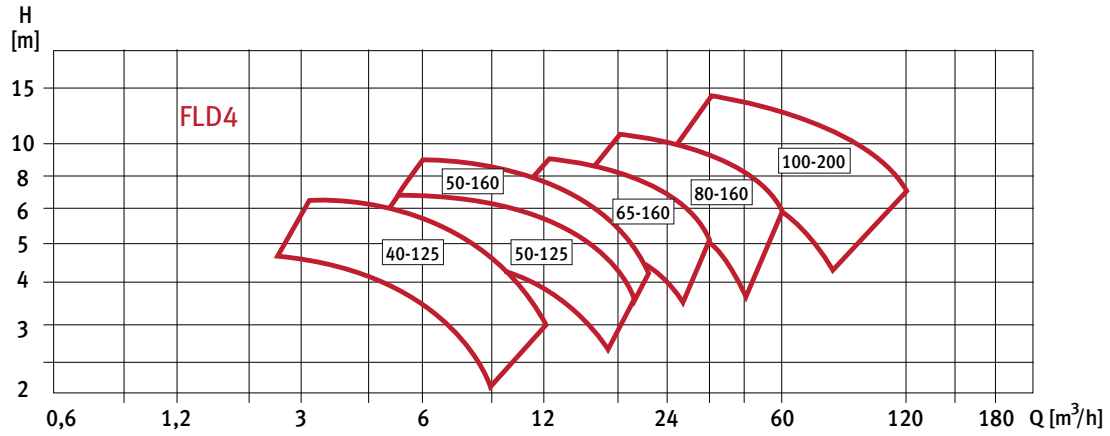
Model	RPM	P2		I (A)	l/min	0	100	150	200	225	250	300	350	400	450	500	600	700	800	900	1000	Code	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	6	9	12	13,5	15	18	21	24	27	30	36	42	48	54	60			
FLD 40x125D	2900	1	0,75	1,7	mwc	25	12,5	10,5	8,1	6,8	5,2											9000002381	**2.664,00**	**E1**
FLD 40x125C	2900	1	0,75	1,7		17	16,5	14,5	12,3	11	9,5	6										9000002378	**2.664,00**	**E1**
FLD 40x125B	2900	1,5	1,1	2,5		21,5	20,5	19	17	16	15	11,5	7,5									9000002375	**2.689,00**	**E1**
FLD 40x125A	2900	2	1,5	3,4		25	24,5	23,5	22	21	20	16,5	13									9000002372	**2.834,00**	**E1**
FLD 50x125C	2900	2	1,5	3,4		16,8					15,5	15	14,1	13	11,8	10,5	7					9000002399	**2.850,00**	**E1**
FLD 50x125B	2900	3	2,2	4,4		20					19	18,5	17,6	16,6	15,5	14,2	10,5					9000002396	**3.297,00**	**E1**
FLD 50x125A	2900	4	3	5,9		25					24,5	24	23,5	23	22	20,5	17					9000002393	**3.631,00**	**E1**
FLD 50x160B	2900	4	3	5,9		31					30	29	28	26,5	25	23	18					9000002414	**4.044,00**	**E1**
FLD 50x160A	2900	5,5	4	7,8		38					36,5	35,6	34,6	33,5	32,3	30,7	26,5					9000002409	**4.121,00**	**E1**
FLD 65x160D	2900	4	3	5,9		24							23	22,5	22	21,5	19,8	17,5	15			9000002438	**4.185,00**	**E1**
FLD 65x160C	2900	5,5	4	7,8		27,5								26,5	26	25,5	24,3	22,6	20,2	18		9000002433	**4.319,00**	**E1**
FLD 65x160B	2900	7,5	5,5	10,4		33								32,5	32	31,5	30,5	29,5	28	26	23,5	9000002427	**5.183,00**	**E1**
FLD 65x160A	2900	10	7,5	14,2		37								37	36,5	36	35	34	32,5	31	29	9000002421	**5.741,00**	**E1**

FLD 80, FLD 100

Model	RPM	P2		I (A)	l/min	0	700	800	900	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	Code	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	42	48	54	60	75	90	105	120	135	150	165	180	195	210	225	240			
FLD 80x160D	2900	10	7,5	14,2	mwc	26,1	25,3	24,9	24,1	23,4	20,5	17	12,7										9000002460	**6.285,00**	**E1**
FLD 80x160C	2900	15	11	19,8		31	30,5	30	29,5	28,9	26,8	24	20,5	16									9000002456	**7.726,00**	**E1**
FLD 80x160B	2900	20	15	27		37	36,5	36	35,3	34,5	32,5	30	27	23	19								9000002453	**8.419,00**	**E1**
FLD 80x160A	2900	20	15	27		42	41	40,5	40	39,5	37,7	35,5	32,5	28,8	24								9000002450	**8.732,00**	**E1**
FLD 100x200F	2900	20	15	27		34				33	32,2	30,7	29	26,8	24,5	22	19						9000002492	**9.112,00**	**E1**
FLD 100x200E	2900	20	15	27		39					37,5	36,5	35	33	31	28,5	26						9000002489	**9.495,00**	**E1**
FLD 100x200D	2900	15	11	19,8		25,3				24,5	23,5	22	20,5	18,5	16	13,5	10,5	7	3				9000002486	**9.299,00**	**E1**
FLD 100x200C	2900	20	15	27		28				27,5	26,5	25,5	24	22	20	17,5	15	12	8,6	5			9000002483	**9.173,00**	**E1**
FLD 100x200B	2900	20	15	27		29					28	27	25,5	23,5	21,5	19	16,5	13,8	10,8	7,5	3		9000002480	**9.557,00**	**E1**
FLD 100x200A	2900	20	15	27		31						29	27,7	26	24,3	22	19,6	17,2	14,3	11,3	7,5	3,5	9000002477	**9.557,00**	**E1**

Field of application

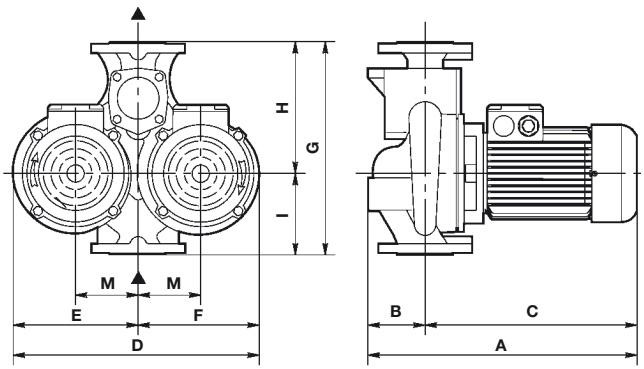


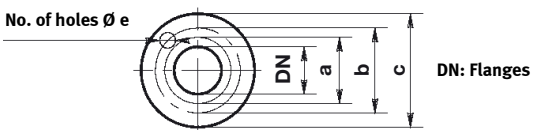


Counter flanges included in the price

Dimensions and weights

Model	DNm DNa	A	B	C	D	E	F	G	H	I	M	Kg
FLD 40x125D	40	425	100	325	397	200	197	340	130	210	100	50
FLD 40x125C	40	425	100	325	397	200	197	340	130	210	100	50
FLD 40x125B	40	445	100	345	397	200	197	340	130	210	100	52
FLD 40x125A	40	445	100	345	397	200	197	340	130	210	100	54
FLD 50x125C	50	455	110	345	427	217	210	365	145	220	105	56
FLD 50x125B	50	455	110	345	427	217	210	365	145	220	105	58
FLD 50x125A	50	495	110	385	427	217	210	365	145	220	105	66
FLD 50x160B	50	535	110	425	480	245	235	410	170	240	120	86
FLD 50x160A	50	455	110	345	427	217	210	365	145	220	105	56
FLD 65x160D	65	485	130	345	543	275	268	450	180	270	140	81
FLD 65x160C	65	565	130	435	543	275	268	450	180	270	140	101
FLD 65x160B	65	670	130	540	543	275	268	450	180	270	140	125
FLD 65x160A	65	495	110	385	480	245	235	410	170	240	120	67
FLD 80x160D	80	690	150	540	550	280	270	510	205	305	135	141
FLD 80x160C	80	690	150	540	550	280	270	510	205	305	135	162
FLD 80x160B	80	690	150	540	550	280	270	510	205	305	135	175
FLD 80x160A	80	565	130	435	543	275	268	450	180	270	140	110
FLD 100x200F	100	720	180	540	670	325	345	630	240	390	165	162
FLD 100x200E	100	720	180	540	670	325	345	630	240	390	165	162
FLD 100x200D	100	720	180	540	670	325	345	630	240	390	165	162
FLD 100x200C	100	720	180	540	670	325	345	630	240	390	165	162
FLD 100x200B	100	720	180	540	670	325	345	630	240	390	165	162
FLD 100x200A	100	720	180	540	670	325	345	630	240	390	165	162





DN	a1	b1	c1	d1	e1
40	88	110	150	4	18
50	102	125	165	4	18
65	122	145	185	4	18
80	138	160	200	8	18
100	158	180	220	8	18

Hydraulic performance table and prices

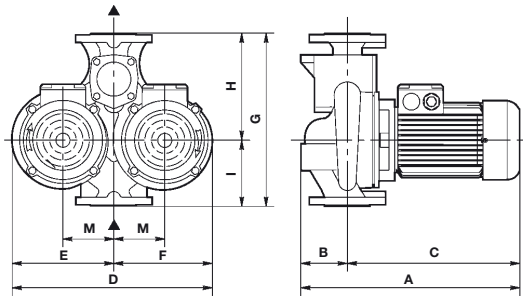
Model	RPM	P2		I (A)	l/min	0	40	50	75	100	125	150	175	200	225	250	300	350	400	450	500	600	Code	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	2,4	3	4,5	6	7,5	9	10,5	12	13,5	15	18	21	24	27	30	36			
FLD4 40x125Z	1450	0,33	0,25	1,4	mwc	4	3,7	3,6	3,15	2,6	1,9												9000002390	**1.816,00**	**E1**
FLD4 40x125Y	1450	0,33	0,25	1,4		6,2	4,6	4,5	4,1	3,6	3	2,2											9000002387	**1.816,00**	**E1**
FLD4 40x125X	1450	0,33	0,25	1,4		6,3		6,2	6,05	5,7	5,2	4,6	3,9	3									9000002384	**1.816,00**	**E1**
FLD4 50x125Y	1450	0,33	0,25	1,4		4,8				4,6	4,5	4,3	4,1	3,9	3,6	3,3	2,4						9000002405	**1.904,00**	**E1**
FLD4 50x125X	1450	0,5	0,37	2,2		6,4				6,3	6,2	6,1	6	5,8	5,5	5,2	4,4	3					9000002402	**1.933,00**	**E1**
FLD4 50x160X	1450	0,75	0,55	2,7		9,2				8,8	8,6	8,3	8	7,7	7,3	6,9	5,9	4,5					9000002417	**2.175,00**	**E1**
FLD4 65x160Z	1450	0,75	0,55	1,8		6,8								6,6	6,5	6,4	6,1	5,7	5,1	4,3	3,3		9000002447	**2.968,00**	**E1**
FLD4 65x160Y	1450	1	0,75	1,8		8,3								8,1	8	7,9	7,7	7,4	7	6,5	5,8	4	9000002444	**3.031,00**	**E1**
FLD4 65x160X	1450	1,5	1,1	2,5		9,1								9	8,9	8,8	8,6	8,4	8,1	7,7	7,1	5,5	9000002441	**3.169,00**	**E1**

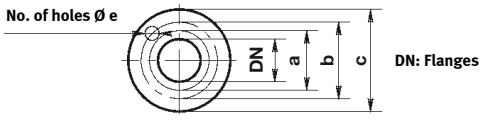
Model	RPM	P2		I (A)	l/min	0	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1500	1750	2000	Code	Price €	Discount cat.
		Hp	kW	3~ 400 V	m³/h	0	18	21	24	27	30	36	42	48	54	60	66	72	78	90	105	120			
FLD4 80x160W	1450	1	0,75	1,8	mwc	6,4	6,3	6,2	6,1	5,9	5,6	4,9	4,1	3,2									9000002465	**3.383,00**	**E1**
FLD4 80x160Z	1450	1,5	1,1	2,5		7,3	7,3	7,2	7,1	7	6,8	6,3	5,6	4,8	3,9								9000002474	**3.464,00**	**E1**
FLD4 80x160Y	1450	1,5	1,1	2,5		8,6	8,6	8,5	8,4	8,3	8,2	7,9	7,4	6,8	6	5							9000002471	**3.528,00**	**E1**
FLD4 80x160X	1450	2	1,5	3,4		10,3	10,2	10,1	10	9,9	9,8	9,45	9	8,4	7,5	6,5							9000002468	**3.672,00**	**E1**
FLD4 100x200W	1450	2	1,5	3,4		8,5					8,1	7,8	7,4	7	6,5	6	5,3	4,6	3,8				9000002495	**4.765,00**	**E1**
FLD4 100x200Z	1450	3	2,2	5,1		10,4						10	9,7	9,3	8,9	8,5	8	7,5	7	6			9000002507	**5.332,00**	**E1**
FLD4 100x200Y	1450	4	3	6,5		12,8						12	11,8	11,6	11,3	10,9	10,5	10	9,5	8,5	7		9000002504	**5.686,00**	**E1**
FLD4 100x200X	1450	5,5	4	8,5		15						14,4	14,2	14	13,8	13,5	13,1	12,7	12,2	11	9	6,5	9000002499	**6.385,00**	**E1**

Counter flanges included in the price

Dimensions and weights

Model	DNm DNa	A	B	C	D	E	F	G	H	I	M	Kg
FLD4 40x125Z	40	425	100	325	397	200	197	340	130	210	100	41
FLD4 40x125Y	40	425	100	325	397	200	197	340	130	210	100	41
FLD4 40x125X	40	425	100	325	397	200	197	340	130	210	100	41
FLD4 50x125Y	50	435	110	325	427	217	210	365	145	220	105	44
FLD4 50x125X	50	435	110	325	427	217	210	365	145	220	105	46
FLD4 50x160X	50	435	110	325	480	245	235	410	170	240	120	52
FLD4 65x160Z	65	475	130	345	543	275	268	450	180	270	140	65
FLD4 65x160Y	65	475	130	345	543	275	268	450	180	270	140	65
FLD4 65x160X	65	475	130	345	543	275	268	450	180	270	140	67
FLD4 80x160W	80	485	150	335	550	280	270	510	205	305	135	72
FLD4 80x160Z	80	485	150	335	550	280	270	510	205	305	135	74
FLD4 80x160Y	80	535	150	335	550	280	270	510	205	305	135	79
FLD4 80x160X	80	535	150	335	550	280	270	510	205	305	135	83
FLD4 100x200W	100	535	180	355	670	325	345	630	240	390	165	110
FLD4 100x200Z	100	605	180	425	670	325	345	630	240	390	165	130
FLD4 100x200Y	100	605	180	425	670	325	345	630	240	390	165	138
FLD4 100x200X	100	615	180	425	670	325	345	630	240	390	165	150





DN	a1	b1	c1	d1	e1
40	88	110	150	4	18
50	102	125	165	4	18
65	122	145	185	4	18
80	138	160	200	8	18
100	158	180	220	8	18

ESPA
Innovative Solutions

55
Since 1962

POOL & WELLNESS

Silen I Swimming Pool

Quiet running single-stage centrifugal pump, self-priming, complete with pre-filter

Applications
Recirculation and filtering of water from small and medium swimming pools.

Materials
Pump body, pump foot, impeller, seal mounting and diffuser in technopolymer.
Motor shaft in stainless steel AISI 431.
Special mechanical seal in AISI 316.
Motor housing in aluminium.
O-rings in NBR.
Bearings up to 160 °C

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase version with built-in thermal protection.
10.000 hours P2 capacitor with aluminium casing.

Equipment
Supplied with suction and discharge unions (metric 50 mm or Imperial 2 1/4").

Limitations
Maximum suction height: 4 m.
Also for saltwater (max. 6 g/litres of salt).

Noiselessness
LWA max 70dB

NEW DESIGN
NEW MATERIALS
ULTRA-SILENT
SELF-PRIMING 4m
EXTENDED WARRANTY

5 YEARS WARRANTY

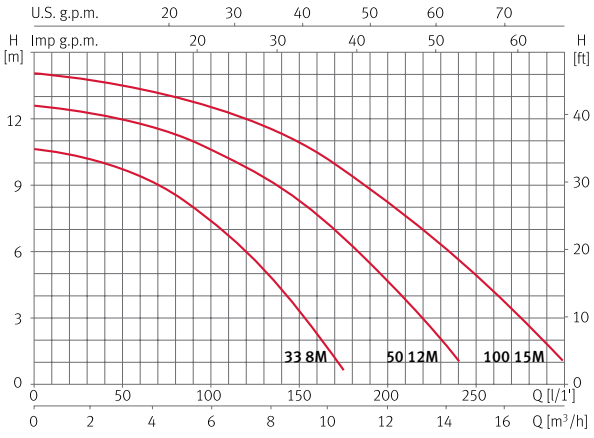
Check conditions and terms at page 174

Hydraulic performance table and prices

Model	I [A]	P1 [kW]	P2		c	* Pool volume [m³]	l/min	25	50	75	100	150	200	250	290	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]		m³/h	1,5	3,0	4,5	6,0	9,0	12	15	17,4	Code	Price €	Discount cat.
SILEN I 33 8M	2	0,45	0,25	0,33	12	65	mwc	10,2	9,7	8,6	7,2	3,2				203144	**298,00**	P1
SILEN I 50 12M	2,8	0,65	0,37	0,5	12	75		12,3	11,9	11,3	10,5	8,1	4,6			203145	**311,00**	P1
SILEN I 100 15M	3,8	0,85	0,75	1	12	85		13,8	13,3	13	12,5	10,8	8,1	4,8	1,8	203146	**321,00**	P1

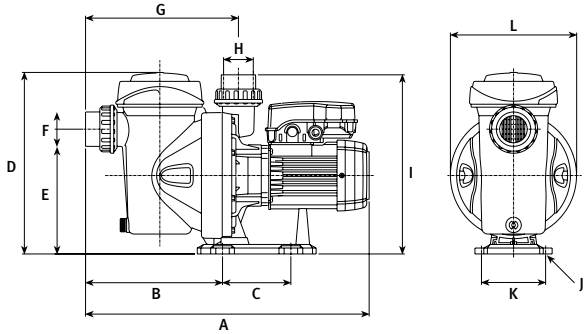
Maximum pool volume (m³): calculated from the optimum flow rate for 8 hours of recirculation at a working pressure of 10 wmc.

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	J	K	L	Kg
SILEN I 33 8M	438,5	191,5	115	304	210	2 1/4"	221	2 1/4"	264	Ø9	108	Ø212	8,9
SILEN I 50 12M	438,5	191,5	115	304	210	2 1/4"	221	2 1/4"	264	Ø9	108	Ø212	10,2
SILEN I 100 15M	438,5	191,5	115	304	210	2 1/4"	221	2 1/4"	264	Ø9	108	Ø212	10,9



Silen S Swimming Pool

Quiet running single-stage centrifugal pump, self-priming, complete with pre-filter

Applications
Recirculation and filtering of water from small and medium swimming pools.

Materials
Pump body, pump foot, impeller, seal mounting and diffuser in technopolymer.
Motor shaft in stainless steel AISI 431.
Special mechanical seal in AISI 316.
Motor housing in aluminium.
O-rings in NBR.
Bearings up to 160 °C.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase version with built-in thermal protection.
10.000 hours P2 capacitor with aluminium casing.

Equipment
Glued suction and outflow fittings for 63 mm diameter PVC pipes.

Limitations
Maximum suction height: 4 m.
Also for saltwater (max. 6 g/litres of salt).

Noiselessness
LWA tra 75 and 85dB

NEW DESIGN
NEW MATERIALS
ULTRA-SILENT
SELF-PRIMING 4M
EXTENDED WARRANTY

5 YEARS WARRANTY

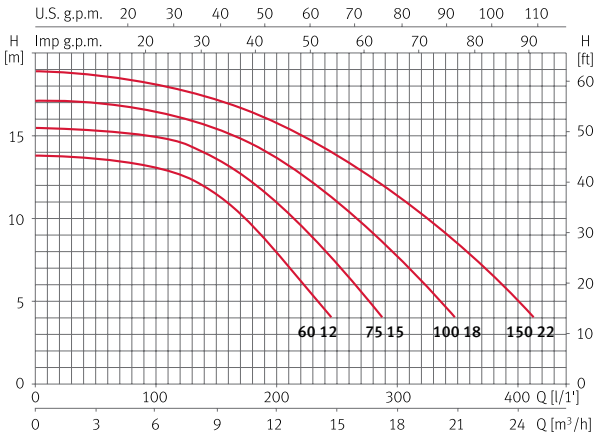
Check conditions and terms at page 174

Hydraulic performance table and prices

Model	I [A]			P1 [kW]		P2		c	* Pool volume [m³]	l/min	40	80	120	160	215	265	325	400	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]		m³/h	2,4	4,8	7,2	9,6	12,9	15,9	19,5	24	Code	Price €	Discount cat.	Code	Price €	Discount cat.
SILEN S 60 12	3,7	2,4	1,4	0,8	0,8	0,44	0,6	16	90	mwc	13,6	13,2	12,6	10,9	6,7				203147	**457,00**	P4	203151	**457,00**	P4
SILEN S 75 15	5,5	3,3	1,9	1,2	1,0	0,55	0,75	16	110		15,2	15	14	13,1	9,9	6			203148	**467,00**	P4	203152	**467,00**	P4
SILEN S 100 18	6,0	3,8	2,2	1,4	1,2	0,75	1,0	16	125		16,9	16,5	16	15	12,9	10	5,9		203149	**478,00**	P4	203153	**478,00**	P4
SILEN S 150 22	7,1	4,8	2,8	1,6	1,6	1,1	1,5	25	150		18,6	18,2	17,7	16,9	15,1	13	10	5,1	203150	**499,00**	P4	203154	**499,00**	P4

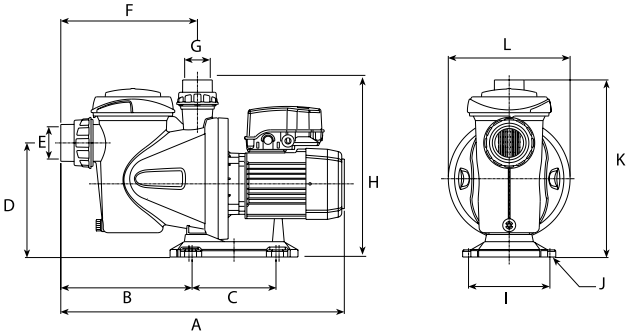
Maximum pool volume (m³): calculated from the optimum flow rate for 8 hours of recirculation at a working pressure of 10 wmc.

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	J	K	L	Kg
SILEN S 60 12	495	211	170	225	2 3/4"	225	2 1/4"	308	159	Ø9	319	238	8,9
SILEN S 75 15	495	211	170	225	2 3/4"	225	2 1/4"	308	159	Ø9	319	238	10,2
SILEN S 100 18	495	211	170	225	2 3/4"	225	2 1/4"	308	159	Ø9	319	238	10,9
SILEN S 150 22	495	211	170	225	2 3/4"	225	2 1/4"	308	159	Ø9	319	238	13,5



Silen S2 Swimming Pool

Quiet running single-stage, self-priming, centrifugal pumps, complete with pre-filter

Applications
Recirculation and filtering of large pools.

Materials
Pump body, pump foot, diffuser, impeller and seal mounting in technopolymer.
Motor shaft in stainless steel AISI 431.
Special mechanical seal in AISI 316.
Motor housing in aluminium.
O-rings in NBR.
Bearings up to 160 °C.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase version built-in thermal protection.
10.000 hours P2 capacitor with aluminium casing.

Equipment
Supplied with suction and discharge unions (metric 63 mm or Imperial 2").

NEW DESIGN
NEW MATERIALS
ULTRA-SILENT
SELF-PRIMING 4m
EXTENDED WARRANTY

5 YEARS WARRANTY

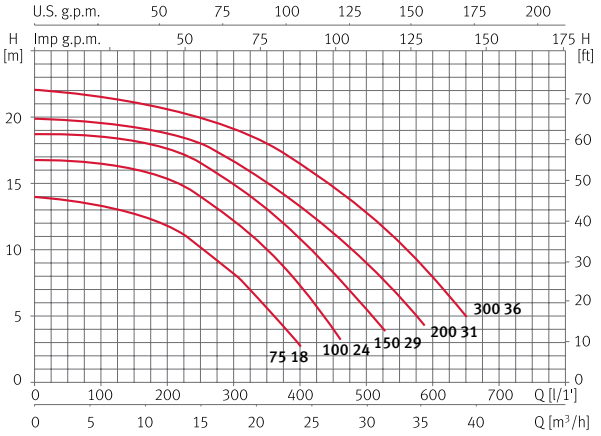
Check conditions and terms at page 174

Hydraulic performance table and prices

Model	I [A]			P1 [kW]		P2		c	* Pool volume [m³]	l/min	100	150	250	350	450	500	550	650	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]		m³/h	6,0	9,0	15	21	27	30	33	39	Code	Price €	Discount cat.	Code	Price €	Discount cat.
SILEN S2 75 18	4,5	3,8	2,2	1,0	1,0	0,55	0,75	25	110	mwc	13,2	12,8	10	5,5					203155	**591,00**	P4	203160	**591,00**	P4
SILEN S2 100 24	7	4,8	2,8	1,5	1,6	0,92	1,25	25	150		16,5	16	14,2	10	4				203156	**607,00**	P4	203161	**607,00**	P4
SILEN S2 150 29	8,5	5,3	3,1	1,9	1,9	1,1	1,5	25	180		18,5	18,2	16,5	13	8,2	5,5			203157	**685,00**	P4	203162	**649,00**	P4
SILEN S2 200 31	9,7	6,5	3,8	2,2	2,2	1,5	2,0	30	200		19,5	19,1	18	15	11,1	9	6,3		203158	**770,00**	P4	203163	**724,00**	P4
SILEN S2 300 36	12,5	8,6	5	2,8	2,6	2,2	3,0	60	240		21,5	21	19,9	18	14,9	12,9	10,3	5	203159	**903,00**	P4	203164	**874,00**	P4

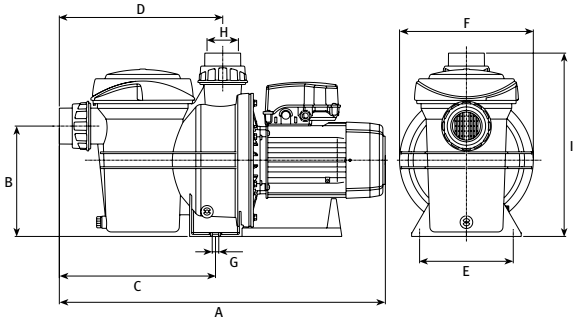
Maximum pool volume (m³): calcula'ed from the optimum flow rate for 8 hours of recirculation at a working pressure of 10 wmc.

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	Kg
SILEN S2 75 18	623,5	222	272	285	188	268	Ø13	2 3/4"	326,5	14
SILEN S2 100 24	623,5	222	272	285	188	268	Ø13	2 3/4"	326,5	15
SILEN S2 150 29	623,5	222	272	285	188	268	Ø13	2 3/4"	326,5	18
SILEN S2 200 31	623,5	222	272	285	188	268	Ø13	2 3/4"	326,5	21
SILEN S2 300 36	623,5	222	272	285	188	268	Ø13	2 3/4"	326,5	23



Silen ST Swimming Pool

Cast iron end suction pumps with incorporated prefilter

Applications
Recycling and filtering of water from medium and large swimming pools, aquatic attractions and similar applications.

Materials
Pump body and prefilter in cast iron.
Filter and shaft in stainless steel AISI 316.
Impeller in stainless steel.
Mechanical seal in graphite/ceramic.
O-ring in NBR.
Motor casing in aluminum.

Equipment
Complete with suction and discharge connection flanges.

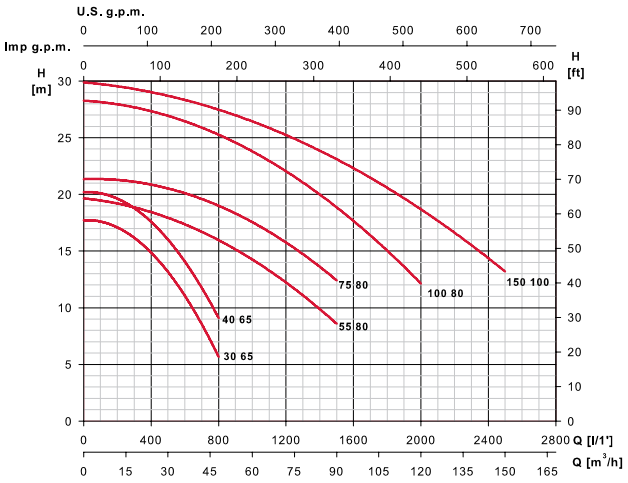
Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Nuts and bolts in stainless steel.
Flange in galvanized iron.

NEW PRODUCT

Hydraulic performance table and prices

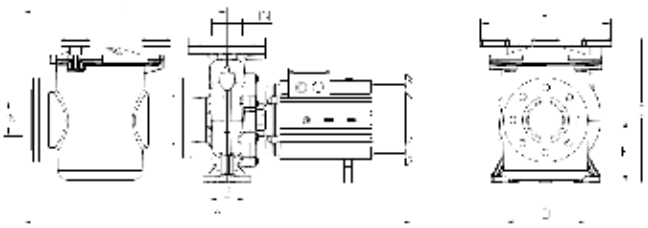
Model	I [A]			P1 [kW]	P2		l/min	0	100	200	300	400	500	600	800	1000	1500	2000	2500	3~400 V (Model T)		
	3~ 230 V	3~ 400 V	3~ 692 V	3~	[kW]	[HP]	m³/h	0	6	12	18	24	30	36	48	60	90	120	150	Code	Price €	Discount cat.
Silen ST 30 65	8,1	4,7		2,9	2,2	3,0	mwc	17,7	17,6	17,1	16,2	14,9	13,2	11,1	5,7					205416	**2.132,00**	**P2**
Silen ST 40 65	10,7	6,2		3,9	3,0	4,0		20,2	20,1	19,6	18,8	17,6	16,0	14,1	9,1					205417	**3.427,00**	**P2**
Silen ST 55 80		8,1	4,7	4,9	4,0	5,5		19,6			18,9	18,4	17,9	17,4	16,0	14,3	8,6			205412	**1.618,00**	**P2**
Silen ST 75 80		10,9	6,3	6,7	5,5	7,5		21,3			21,1	20,9	20,5	20,1	19,0	17,6	12,4			205413	**1.707,00**	**P2**
Silen ST 100 80		14,7	8,5	9,1	7,5	10,0		28,3				27,3	26,9	26,5	25,3	23,8	18,9	12,1		205414	**1.961,00**	**P2**
Silen ST 150 100		20,9	12,1	12,9	11,0	15,0		29,9						28,3	27,5	26,4	23,1	18,7	13,2	205415	**2.061,00**	**P2**

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	DN1	DN2	Kg
Silen ST 30 65	799	70	376	190	339	132	510	80	50	92,0
Silen ST 40 65	799	70	376	190	339	132	510	80	50	94,0
Silen ST 55 80	854	95	376	212	339	160	510	100	65	113,0
Silen ST 75 80	854	95	376	212	339	160	510	100	65	119,0
Silen ST 100 80	854	95	376	212	339	160	510	100	65	122,0
Silen ST 150 100	1024	95	376	250	339	180	542	100	80	162,0



Silen Plus Swimming Pool

evopool® ESPA

Quiet running single stage centrifugal pump with frequency driver

Applications
Recirculation and filtering of water from swimming pools.
Quiet running.

Materials
Pump body, pump foot, impeller, seal mounting and diffuser in technopolymer.
Motor shaft in stainless steel AISI 431.
Special mechanical seal in AISI 316.
Mechanical seal in graphite and alumine.
Motor housing in aluminium.
O-rings in NBR.
Bearings up to 160º C.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.

Equipment
Supplied with suction and discharge unions.
Control System included.
Supplied with 2 m of power cable.

evopool®
The Silen Plus includes a frequency inverter with a major innovation in its operation to adapt it for usage in pools: the speed variation in the swimming pool working cycles. Silen Plus includes an ESPA pool pump and a frequency inverter with a major innovation in its operation to adapt it for usage in pools.

evopool® Control System
The ESPA control system detects the position of the selector valve and transmits it to the pump to automatically activate or deactivate the operation cycle depending on the position.

Silen Plus 1M

Silen Plus 3M

- HYDRAULIC AND ECONOMIC SAVING
- ULTRA-SILENT (45 DB)
- LONGER PRODUCT LIFETIME
- AUTOMATION
- EVOPOOL APP MANAGEMENT
- EXTENDED WARRANTY
- START-UP SERVICE AND REMOTE ASSISTANCE

5 YEARS WARRANTY

Check conditions and terms at page 174

Electric features and prices

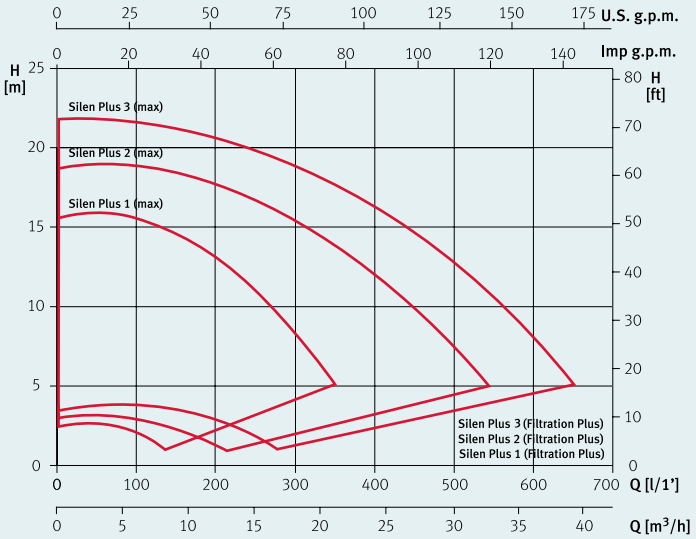
Model	Working cicle evopool®	Current [A]	Input power P1 [kW]	Motor power P2		1~230 V (Model M)		
		1~ 230 V	1~	[kW]	[HP]	Code	Price €	Discount cat.
Silen Plus 1M	Filtration Plus Max	1,0 8,0	0,1 1,1	0,75	1,0	199398	**978,00**	**P1**
Silen Plus 2M	Filtration Plus Max	1,2 10	0,17 1,5	1,5	2,0	199399	**1.196,00**	**P1**
Silen Plus 3M	Filtration Plus Max	1,6 14,8	0,2 2,6	2,2	3,0	200519	**1.402,00**	**P1**

SAVINGS WITH SILEN PLUS PUMP

This savings simulation has been estimated with the following data: 180 operation days per year — Electricity cost 0,24 €/kWh — Water cost 1,91 €/m³

	Swimming pool volume	Energy savings	Water savings during backwash	Estimated annual savings (€/year)	Carbon footprint
Silen Plus 1 VS: Single speed pump 0,75 Hp	30 m³	84%	58%	329,29€	84% CO_2 emissions reduction
Silen Plus 1 VS: Single speed pump 0,75 Hp	50 m³	82%	58%	471,60€	82% CO_2 emissions reduction
Silen Plus 2 VS: Single speed pump 1,50 Hp	100 m³	72%	55%	862,45€	72% CO_2 emissions reduction
Silen Plus 3 VS: Single speed pump 2 Hp	150 m³	62%	55%	1.161,01€	62% CO_2 emissions reduction

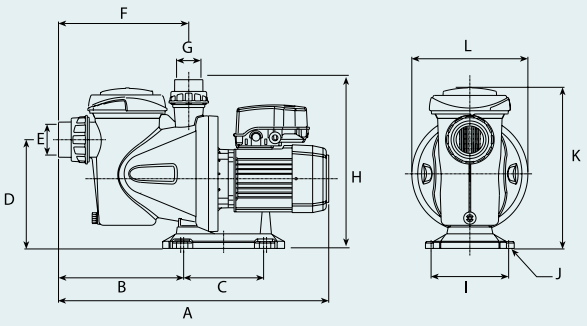
Performance curves



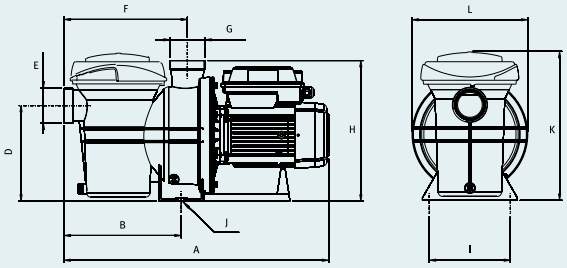
Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	J	K	L	Kg
Silen Plus 1M	495	211	170	225	2 3/4"	225	2 1/4"	308	159	Ø9	319	238	11,9
Silen Plus 2M	623,5	272	-	222	2 3/4"	285	2 3/4"	326	188	Ø13	334	268	21,9
Silen Plus 3M	623,5	272	-	222	2 3/4"	285	2 3/4"	326	188	-	368	268	23,9

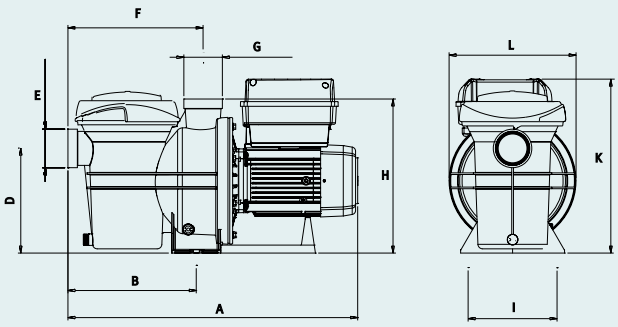
Silen Plus 1M



Silen Plus 2M



Silen Plus 3M



evopool® ESPA iOS

S3 Magnus Swimming Pool

Self-priming pumps for swimming pools at 1450 rpm

Applications
Recirculation and filtering of large pools. Rotational speed of the motor at 1450 rpm for a slower water flow and a more effective filtration.

Materials
Pump body, pump foot, volute, casing made of fibreglass-reinforced poly-propylene. Polyethylene filter basket. Polycarbonate filter cover. Noryl impeller (bronze on request).
Motor axis in AISI 316 stainless steel.
Mechanical seal: carbo ceramic.

Motor
Asynchronous, four-pole.
Class F insulation.
IP 55 Protection.
Continuous service.

Limitations
Maximum suction height: 4 m.
Also for saltwater (max. 6 g/litres of salt).

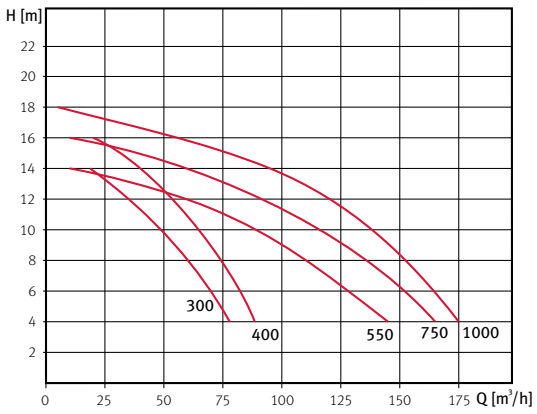
Equipment
Flanged inlets.
Counter flanges available on request
550, 750 and 1000 models can be supplied with bronze impeller at extra cost.

Hydraulic performance table and prices

Model	P2		I (A)	m³/h	4	6	8	10	12	14	16	18	3~400 V (Model T)			3~400 V (Model GB)		
	Hp	kW	3~ 400 V	mwc									Code	Price €	Discount cat.	Code	Price €	Discount cat.
S3 MAGNUS 300	3	2,2	5,5		78	70	60	48	35	18			S3MAGNUS300	**1572,00**	**P2**			
S3 MAGNUS 400	4	3	7,4		88	83	75	65	52	40	20		S3MAGNUS400	**1609,00**	**P2**			
S3 MAGNUS 550	5,5	4	8,8		145	125	110	90	60	10			S3MAGNUS550	**1798,00**	**P2**	S3MAGNUS550GB	**2299,00**	**P2**
S3 MAGNUS 750	7,5	5,5	12,0		165	152	136	115	74	65	10		S3MAGNUS750	**2436,00**	**P2**	S3MAGNUS750GB	**2890,00**	**P2**
S3 MAGNUS 1000	10	7,5	15,8		175	165	155	138	120	95	52	5	S3MAGNUS1000	**2505,00**	**P2**	S3MAGNUS1000GB	**2944,00**	**P2**

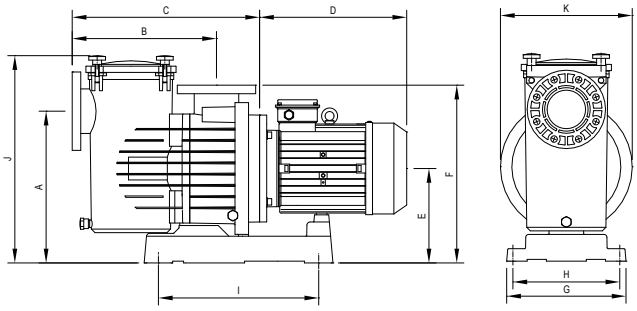
Surcharge for bronze impeller available only for the 550, 750 and 1000 models): **Contact head office.**

Performance curves a 1459 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	J	K	DNA	DNM	Kg
S3 MAGNUS 300	420	405	508	310	265	505	335	300	450	590	370	110	110	42,5
S3 MAGNUS 400	420	405	508	310	265	505	335	300	450	590	370	110	110	44,5
S3 MAGNUS 550	420	405	508	330	265	505	335	300	450	590	370	110	110	53,4
S3 MAGNUS 750	420	405	508	380	265	505	335	300	450	590	370	110	110	66
S3 MAGNUS 1000	420	405	508	380	265	505	335	300	450	590	370	110	110	76



Tiper Wellness/spa

Single-stage centrifugal pumps with complete self draining

Applications
Compact hydromassage units.

Motor
Suction and discharge mountings, impeller and motor mountings in technopolymer.
Motor shaft in stainless steel AISI 420.
Motor housing in aluminium.
Mechanical seal in graphite and alumine.

Materials
Asynchronous, two poles.
IP 55 protection. Class F insulation.
Continuous operation.
Built-in thermal protection.

Limitations
Insulation capable of resisting over 3750 V.

Equipment
For 50 diameter PVC tubes suction, 32 diameter T outlet pipes for Tiper 1, diameter 40 for Tiper 2.

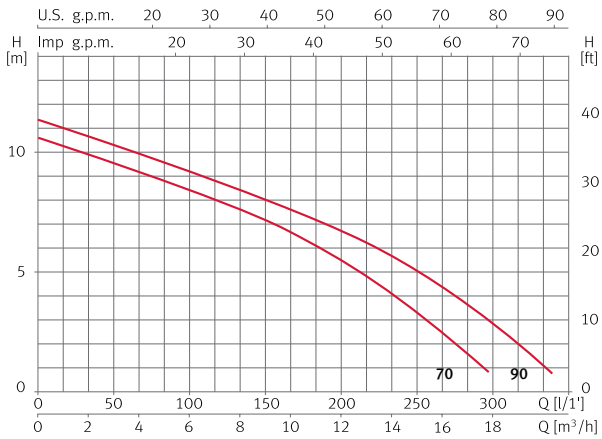
Hydraulic performance table and prices

Model	I [A]	P1 [kW]	P2		c	l/min	50	100	150	175	200	250	300	340	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	3,0	6,0	9,0	10,5	12	15	18	20,4	Code	Price €	Discount cat.
Tiper1 70	3,1	0,7	0,37	0,5	12	mwc	9,6	8,5	7	6,2	5,1	3			129128	**138,00**	**P1**
Tiper1 90	4,2	0,9	0,75	1	12		10,8	9,8	8,5	7,8	7	5	3	1	129132	**148,00**	**P1**

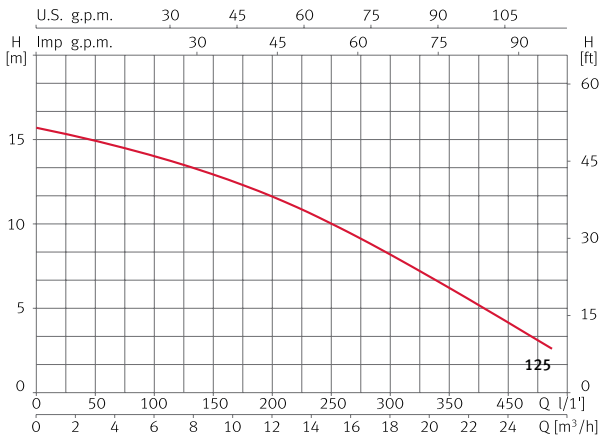
Model	I [A]	P1 [kW]	P2		c	l/min	83	133	183	233	283	333	383	433	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	3,0	6,0	9,0	10,5	12	15	18	20,4	Code	Price €	Discount cat.
Tiper2 75						mwc									137549	**396,00**	**P1**
Tiper2 125	5,6	1,5	0,90	1,25	16		14,2	13,2	12	10,6	9	7	5	2,7	137548	**417,00**	**P1**

Performance curves at 2900 rpm

Tiper1



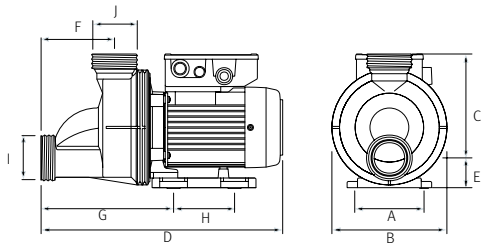
Tiper2



Dimensions and weights

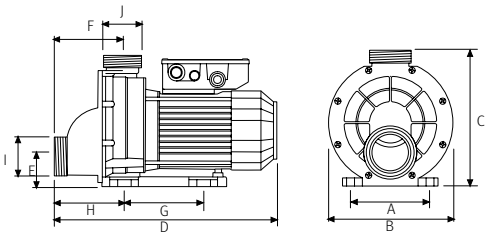
Tiper1

Model	A	B	C	D	E	F	G	H	I	J	Kg
Tiper1 70	100	166	150	348	43	106	190	88	2 1/4"	2 1/4"	4,0
Tiper1 90	100	166	150	348	43	106	190	88	2 1/4"	2 1/4"	4,5



Tiper2

Model	A	B	C	D	E	F	G	H	I	J	Kg
Tiper2 125	124	187	215	378	50	120	120	130	2 1/4"	2 1/4"	4,4



Wiper 0/3 Wellness/spa

Quiet running single-stage centrifugal pumps for water recirculation

Applications
Water recirculation in spas
and private pools.
With central suction
and adjustable discharge outlet.

Materials
Suction cover, impeller, pump foot and discharge body in technopolymer.
Mechanical seal in graphite and steatite.
Shaft in stainless steel AISI 431.
Motor housing in aluminium.
O-rings in NBR.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Built-in thermal protection.
Single phase two speed options:
2P = 2900 rpm. / 4P = 1450 rpm.
10.000 hours P2 capacitor with aluminium casing.

Equipment
Wiper 0: 21/4" inlet and outlet ports.
Complete with suction and discharge unions (metric 50 mm).
Wiper 3: 23/4" inlet and outlet ports.
Complete with suction and discharge unions (metric 63 mm).

Hydraulic performance table and prices

Model	I [A]	P1 [kW]	P2		c	l/min	25	50	100	150	200	250	300	350	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	1,5	3,0	6,0	9,0	12	15	18	21	Code	Price €	Discount cat.
Wiper0 50	2,3	0,5	0,24	0,33	12	mwc	10	9,4	7,9	6,0	3,6	1			203170	150,00	P1
Wiper0 70	2,9	0,64	0,37	0,5	12		11	10,6	9,7	8,5	6,6	4,5	2,2		203171	244,00	P1
Wiper0 90	3,74	0,85	0,74	1,0	12		11,7	11,3	10,5	9,6	8,4	6,7	4,6	2,2	203172	243,00	P1

1 x 230 V Single phase

Model	I [A]	P1 [kW]	P2		c	l/min	50	100	200	300	400	500	600	900	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	3,0	6,0	12	18	24	30	36	54	Code	Price €	Discount cat.
Wiper3 150	6,4	1,4	1,1	1,5	25	mwc	13,3	13	12,1	10,8	8,2	5			203173	520,00	P1
Wiper3 200	8,8	2	1,5	2	40		14,8	14,5	13,9	12,9	11,1	9,1	6,8		203174	676,00	P1
Wiper3 300	11	2,5	2	3	60		14,8	14,5	14,1	13,5	12,8	11,9	10,7	4,7	203175	845,00	P1

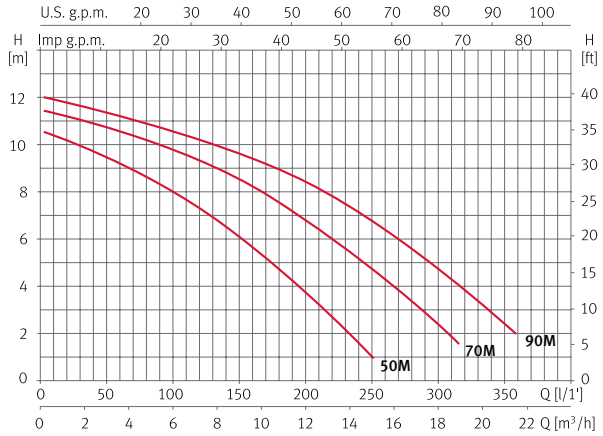
Model		I [A]	P1 [kW]	P2		c	l/min	50	100	200	300	400	500	600	900	1~230 V (Model M)		
		1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	3,0	6,0	12	18	24	30	36	54	Code	Price €	Discount cat.
Wiper3 150M 2P4P	2P	6,4	1,4	1,1	1,5	25	mwc	14,0	13,3	13,0	12,1	10,8	8,2	5,0		97854	717,00	P1
	4P	1,4	0,35	0,18	0,25	16		3,0	2,9	2,8	2,0							
Wiper3 200M 2P4P	2P	8,8	2,0	1,5	2	40		15,0	14,8	14,5	13,9	12,9	11,1	9,1	6,8	129317	805,00	P1
	4P	1,7	0,4	0,18	0,25	16		3,0	2,9	2,8	2,6	1,5						

3 x 230/400 V Three phase

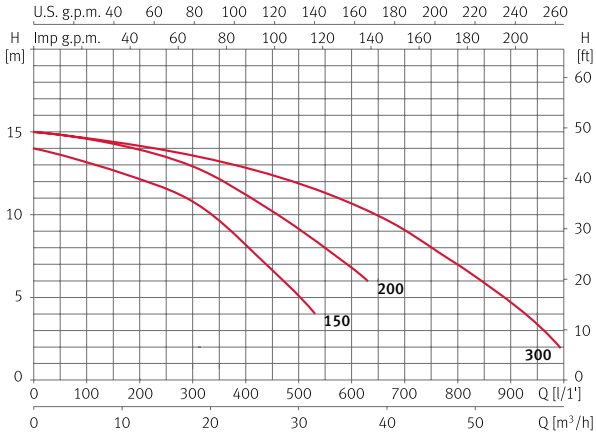
Model	I [A]		P1 [kW]	P2		l/min	50	100	200	300	400	500	600	900	3~ 400 V (Model T)		
	3~ 230 V	3~ 400 V	3~	[kW]	[HP]	m³/h	3,0	6,0	12	18	24	30	36	54	Code	Price €	Discount cat.
Wiper3 150	5	2,9	1,1	1,1	1,5	mwc	13,3	13	12,1	10,8	8,2	5			203176	520,00	P1
Wiper3 200	6,6	3,8	1,8	1,5	2		14,8	14,5	13,9	12,9	11,1	9,1	6,8		203177	676,00	P1
Wiper3 300	7,1	4,1	2,4	2	3		14,8	14,5	14,1	13,5	12,8	11,9	10,7	4,7	203178	651,00	P1

Performance curves at 2900 rpm

Wiper0



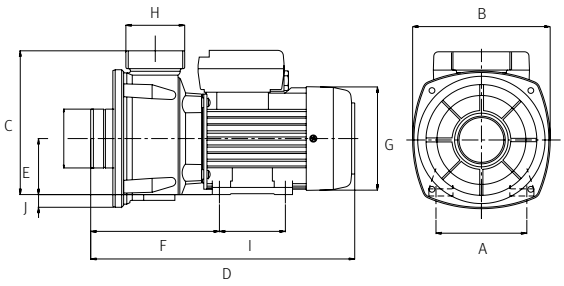
Wiper3



Dimensions and weights

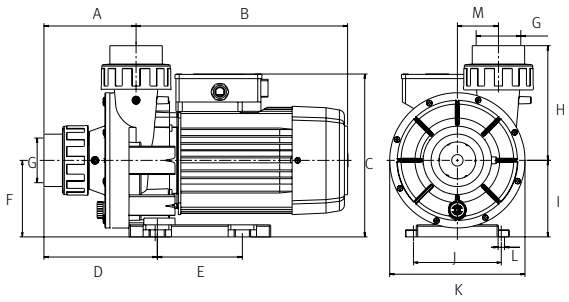
Wiper0

Model	A	B	C	D	E	F	G	H	I	J	Kg
Wiper0 50	102	154,5	162	295,5	63	144,5	116	2¹/⁴"	74	15	5,7
Wiper0 70	102	154,5	162	295,5	63	144,5	116	2¹/⁴"	74	15	6
Wiper0 90	102	154,5	162	295,5	63	144,5	116	2¹/⁴"	74	15	6,8



Wiper3

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Kg
Wiper3 150	130	298,7	230	160	120	108	63	162	108	124	191	9	29	14,3
Wiper3 200	130	298,7	230	160	120	108	63	162	108	124	191	9	29	17
Wiper3 300	130	298,7	230	160	120	108	63	162	108	124	191	9	29	18,8



Nadorself Swimming Pools

Single-stage centrifugal pumps

Applications
Jet-stream swimming in public or private swimming pools.
Generate a strong stream of water and transform swimming pools into places for sport and leisure.

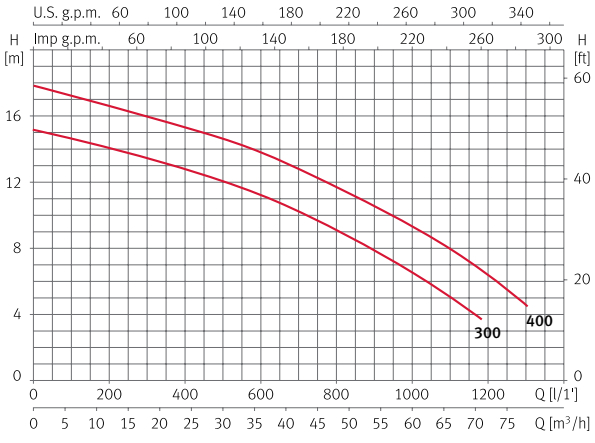
Materials
Pump body, impeller, seal mounting and diffuser in technopolymer.
Mechanical seal in graphite and alumine.
Suction valve in reinforced rubber.
Shaft in stainless steel AISI 431.
Pump-motor support and motor housing in aluminium.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Single phase with built-in thermal protection.
10.000 hours P2 capacitor with aluminium casing.

Hydraulic performance table and prices

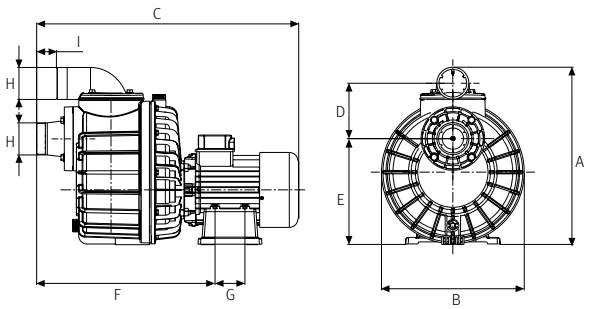
Model	I [A]			P1 [kW]		P2		c	l/min	100	200	400	600	800	1000	1200	1300	1~230 V (Model M)			3~400 V (Model T)		
	1~ 230 V	3~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	6,0	12	24	36	48	60	72	78	Code	Price €	Discount cat.	Code	Price €	Discount cat.
Nadorself 200									mwc									203165	**1.069,00**	**P1**	203167	**1.019,00**	**P1**
Nadorself 300	13,4	8,6	5	3	3	2,3	3	60		14,6	14	12,8	11,3	9	6,5			203166	**1102,00**	**P1**	203168	**1.065,00**	**P1**
Nadorself 400		11,8	6		3,4	3	4			17,2	16,6	15,3	13,8	11,6	9,4	6,3	4,5				203169	**1.125,00**	**P1**

Performance curves at 2900 rpm



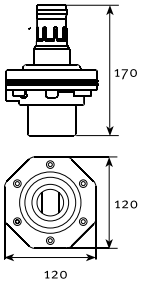
Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	Kg
Nadorself 300	416	335	615	130	248,5	418,5	70	2 1/2"	46,5	26,1/25,8
Nadorself 400	416	335	615	130	248,5	418,5	70	2 1/2"	46,5	28

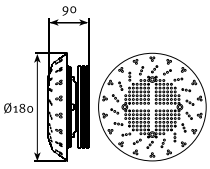


POOL & WELLNESS

Wiper3

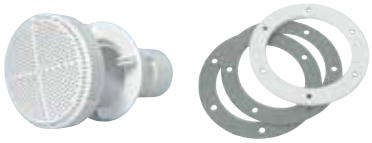


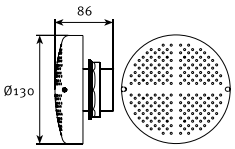
Jet Kit	Code	Price €	Discount cat.
Kit NCB	130632	**108,00**	**P1**



We recommend 2 units per kit. See regulations for country in question

Suction for Kit NCB in lined pool	Code	Price €	Discount cat.
Kit NCB AL	130634	**116,00**	**P1**

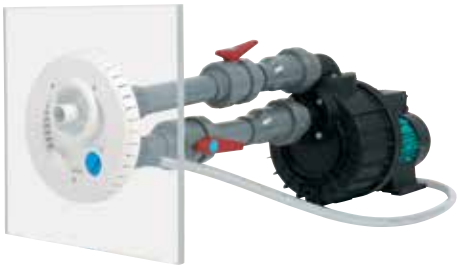


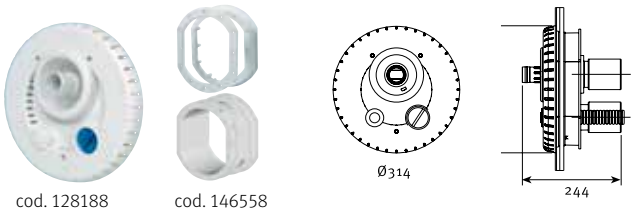


We recommend 2 units per kit. See regulations for country in question

Suction for Kit NCB in concrete pool	Code	Price €	Discount cat.
Kit NCB AH	130633	**101,00**	**P1**

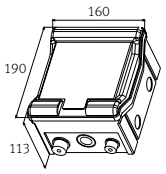
Nadorself



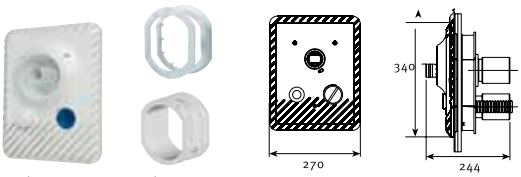


cod. 128188 cod. 146558

Complete circular kit	Code	Price €	Discount cat.
Front plate NC RL /RH	128188	**104,00**	**P1**
Counter flange for NC RL /RH ad NC CL /CH suitable for swimming pools with a liner or cement complete with rear body, plate protector, pneumatic tubes, filters, grill template, couplings, seals, screws.	146558	**217,00**	**P1**



Control panel	Code	Price €	Discount cat.
NC CM 2 (Single phase) 1~230 V [I=13-18 A]	134548	**293,00**	**P1**
NC CT 2 (Three phase) 3~400 V [I=4-6.3 A]	134549	**293,00**	**P1**
NC CT 3 (Three phase) 3~400 V [I=6.3-10 A]	137584	**298,00**	**P1**



cod. 128189 cod. 146558

Complete rectangular kit	Code	Price €	Discount cat.
Front plate NC CL/CH	128189	**101,00**	**P1**
Counter flange for NC RL /RH ad NC CL /CH suitable for swimming pools with a liner or cement complete with rear body, plate protector, pneumatic tubes, filters, grill template, couplings, seals, screws	146558	**217,00**	**P1**

Filterkit Base Swimming Pool

Filters with valves

Filterkit Base

Filters with valves made of chemical and weather resistant polyethylene.
Moulded in a single piece, with base built into the filter.
Highly versatile, six-way valve.
Wide range, from Ø450 to Ø650 mm for pools with a volume of water up to 128 m^3.

Features

Working pressure: 2 bar; maximum pressure: 2.5 bar.
Connection with 1 ½" six-way valve.
Fitted with pressure gauge and air valve.
Double drainage in the lower section of the filter: ½" to totally empty the filter; ¼" to drain water without loss of sand.
Transparent lid on the side-mounted version for easy inspection.
Filter connected to valve via a 177 mm clamp in Ø450 - Ø550 models; via a 203 mm anti-blockage threaded filter in the Ø650 mm model.

Hydraulic performance table and prices

Model	Filter				Filterkit Plus		
	Ø Filter [mm]	Nominal flow [m^3/h]	* Pool volume [m^3]	Silex load [Kg]	Code	Price €	Discount cat.
FKB 450 6TP	450	8	64	75	134538	**288,00**	**P1**
FKB 550 6TP	550	12	96	125	134539	**344,00**	**P1**
FKB 650 6TP	650	16	128	225	134540	**415,00**	**P1**

Maximum pool volume (m^3): calculated from the optimum flow rate for 8 hours of recirculation at a working pressure of 10 wmc.

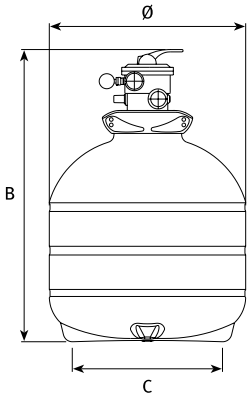
Filter – pump - block combination table

Filterpak Model	Filter		Pump		Kit base		
	Model	Code	Model	Code	Model	Code	Price €
FPB 450 6TP SILEN I 50 12M	FKB 450 6TP	134538	SILEN I 50 12M	203145	Kit base 450	134186	**0,00**
FPB 550 6TP SILEN I 100 15M	FKB 550 6TP	134539	SILEN I 100 15M	230146	Kit base 550/650	134187	**0,00**
FPB 650 6TP SILEN S 100 18M	FKB 650 6TP	134540	SILEN S 100 18M	203149	Kit base 550/650	134187	**0,00**

Model	1~230 V		
	Code	Price €	Discount cat.
Reinforced polypropylene base for monoblock filter450 (base + bolts)	203057	**16,20**	**P1**
Reinforced polypropylene base for monoblock filter550-650 (base + bolts)	203120	**25,50**	**P1**

Dimensions and weights

Model	A	B	C	Ø	Kg
FKB 450 6TP	-	832	330	450	7,7
FKB 550 6TP	-	832	440	550	10,1
FKB 650 6TP	-	1,076	550	650	17,1



Filterkit Plus Swimming Pool

Filters with valves

Filterkit Plus

Filters with valves made of chemical and weather resistant modified polypropylene.
Injection moulded, with the two halves thermally welded.
Highly versatile, with top or sidemounted, six-way valve.
Highest quality, from Ø520 to Ø760 mm for pools with a volume of water up to 128 m^3.

Features

Working pressure: 2.5 bar; maximum pressure: 3.5 bar.
Connection with 1 ½" six-way valve for Ø520 and Ø620 mm models;
2" for Ø760 mm models.
Fitted with pressure gauge and air valve.
Double drainage in the lower section of the filter: 1 ½" to totally empty the filter; ½" to drain water without loss of sand.
Transparent lid on the side-mounted version for easy inspection.
Valve joint/lid (depending on top- or side-mounted version) to the filter via a 203 mm anti-blockage seal.

FKP 6LT

FKP 6TP

Hydraulic performance table and prices

Model	Filter				Filterkit Plus		
	Ø Filter [mm]	Nominal flow [m^3/h]	* Pool volume [m^3]	Silex load [Kg]	Code	Price €	Discount cat.
FKP 520 6LT	520	10	80	75	130906	**486,00**	**P1**
FKP 620 6LT	620	15	120	150	130907	**560,00**	**P1**
FKP 750 6LT	760	22	176	300	130908	**844,00**	**P1**
FKP 520 6TP	520	10	80	75	131045	**448,00**	**P1**
FKP 620 6TP	620	15	120	150	131046	**534,00**	**P1**

Maximum pool volume (m^3): calculated from the optimum flow rate for 8 hours of recirculation at a working pressure of 10 wmc.

Filter – pump - block combination table

Filterpak Model	Filter		Pump		Kit base		
	Model	Code	Model	Code	Model	Code	Price €
FPP 520 6TP SILEN S 75 15M	FKP 520 6TP	131045	SILEN S 75 15M	203148	Kit base 520/620	129433	**0,00**
FPP 620 6TP SILEN S 100 18M	FKP 620 6TP	131046	SILEN S 100 18M	203149	Kit base 520/620	129433	**0,00**
FPP 520 6LT SILEN S 75 15M	FKP 520 6LT	130906	SILEN S 75 15M	203148	Kit base 520/620	129433	**0,00**
FPP 620 6LT SILEN S 100 18M	FKP 620 6LT	130907	SILEN S 100 18M	203149	Kit base 520/620	129433	**0,00**
FPP 760 6LT SILEN S 150 22M	FKP 760 6LT	130908	SILEN S 150 22M	203150	Kit base 760	129434	**0,00**

Model	1~230 V		
	Code	Price €	Discount cat.
Reinforced polypropylene base for filter 520-620 (base + bolts)	203121	**30,00**	**P1**
Reinforced polypropylene base for filter 760 (base + bolts)	203122	**37,00**	**P1**

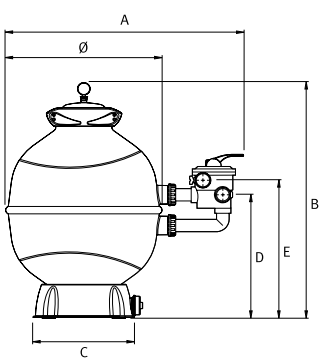
Dimensions and weights

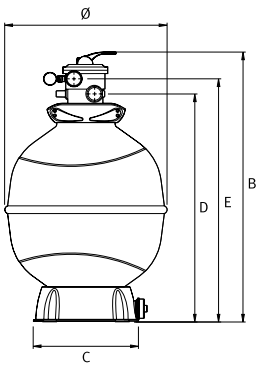
FKP 6LT (Side-mounted valve)

Model	A	B	C	D	E	Ø	Kg
FKP 520 6LT	884	886	422	460	519	520	21,7
FKP 620 6LT	943	957	442	501	560	620	23,7
FKP 750 6LT	1,102	1,114	442	630	715	767	34,0

FKP 6TP (Top-mounted valve)

Model	A	B	C	D	E	Ø	Kg
FKP 520 6TP	-	983	422	820	879	520	21,0
FKP 620 6TP	-	1,056	422	892	951	620	23,0





ESPA
Innovative Solutions

55
Since 1962

PRESSURE BUILDING SERVICES

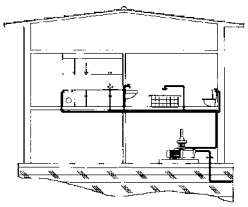
Pressdrive Pressure

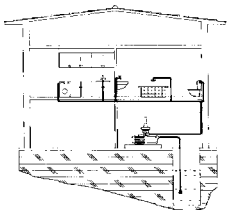
Automatic pressure unit

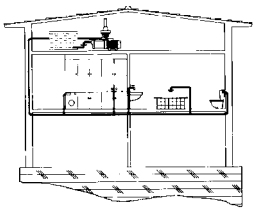
Applications
Assembled on a pump for automatic water supply and to reduce the water hammer.
Free of maintenance without preload of air.

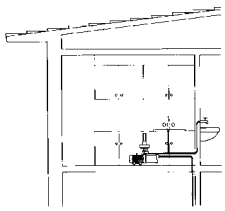
Materials
Plastic components in polypropylene.
Internal membrane in natural rubber.
Screws in stainless steel AISI 304.

Specifications
Quiet running operation.
Non return valve built-in, pressure gauge, pressure switch and electronic control with dry running function integrated with manual reset button.
Adjustable starting pressure 1.5 - 2.5 bar.
Plastic union connection included.







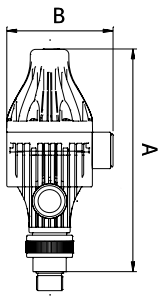


Technical features

Model	I [A]	Hz	Protection	Max. Pressure [kg/cm²]	Starting Pressure [bar]	Diferential Pressure [kg/cm²]	Stopping Pressure	Max. temperature [°C]	Ø Inlet connection	Ø Outlet connection	1~230 V		
											Code	Price €	Discount cat.
Pressdrive AM 2E	12	50/60	IP 55	10	1,5 - 2,5	≥ 0,7	Max. given by the pump	50	Union 3 pieces 1"	1" female	205334	**61,00**	**E2**

Dimensions and weights

Model	A	B	Kg
Pressdrive AM 2E	281	134	0,9



Pressdrive 05 Pressure

Automatic pressure unit

Applications
Assembled on a pump for automatic water supply and to reduce the water hammer.

Materials
Plastic components in polypropylene.
Internal membrane in natural rubber.
Screws in stainless steel AISI 304.

Features
Maximum pressure 10 bar.
Voltage: 1x 230V 50/60 Hz.
Maximum current 12 A.
IP 55 protection.
Adjustable starting pressure 1.5-2.5 bar.
Non return valve built-in, pressure gauge, pressure switch and electronic control with dry running function integrated with manual reset button.

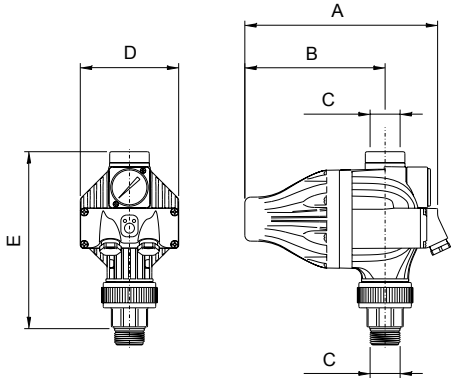
Maximum working temperature: 60 °C.
Supplied with power cable.
Plastic union connection included.

Technical features

Model	I [A]	Hz	Protection	Max. Pressure [kg/cm²]	Starting Pressure [bar]	Diferential Pressure [kg/cm²]	Stopping Pressure	Max. temperature [°C]	Ø Inlet connection	Ø Outlet connection	1~230 V		
											Code	Price €	Discount cat.
Pressdrive 05 AM 2E	12	50/60	IP54	10	1,5-2,5	1	Max. given by the pump	60	1"	1"	205328	**63,00**	**E2**

Dimensions and weights

Model	A	B	C	D	E	Kg
Pressdrive 05 AM 2E	213	155	G1"	108	195	0,9



Electronic pump regulators

Electronic control devices for starting and stopping the pump, with automatic shut-off if the pump is running dry to prevent water hammer. No maintenance or air charging required.

Applications
In combination with an electropump for supplying water to one or more residences. Guaranteed operation even with the presence of minor impurities in the liquid.

Advantages
Automated pump stop and start.
Monitoring to prevent dry operation.
Maintenance not required.
Prevents water hammer.
Space-saving footprint.

Features

Kit 04 fixed reset pressure (1.5 or 2.2 bar), reset button.

Kit 03 adjustable reset pressure (1.5 - 3 bar), pressure gauge, network presence, pump running and alarm indicator LEDs. Reset button.

Kit 06 fixed reset pressure (1.5 or 2.2 bar), reset button.

Presair expansion tank Kit
Creates a small water buffer which prevents intermittent operation of the pump with reduced flow rates. 1/4" connector.

Kit 05 NM
Voltage: 230 V - 50/60 Hz.
Maximum operating pressure 12 bar.
Operating max temperature 65° C.
Minimum flow ~ 1 l/min.
Maximum static pressure: 10 bar.

Tabella Features tecniche e prezzi

Model	I [A]	Hz	Protection	Max. Pressure [bar]	Reset pressure [bar]	Maximum flow rate [m³/h]	Ø Intake	Ø Supply	Code	Price €	Discount cat.
KIT 04 15	10	50/60	IP 54	7,5	1,5 Fixed	8	1" Male	1" Male	KIT04	**58,50**	**E1**
KIT 04 22	10	50/60	IP 54	7,5	2,2 Fixed	8	1" Male	1" Male	KIT04-22	**58,50**	**E1**
KIT 06 15	16	50/60	IP 65	10	1,5 Fixed	12	1"1/4 Male	1"1/4 Male	KIT06	**175,00**	**E1**
KIT 06 22	16	50/60	IP 54	10	2,2 Fixed	12	1"1/4 Male	1"1/4 Male	KIT06-22	**175,00**	**E1**
KIT 03	10	50/60	IP 54	10	1,5 - 3 adjustable	8	1" Male	1" Male	KIT03	**61,00**	**E2**
KIT 05 NM	16	50/60	IP 65	12	1,5 - 2,4 adjustable	12	1" Male	1" Male	KIT05NM	**114,00**	**E3**
KIT PRESAIR	Mini expansion tank with 1/4" connection								169961	**123,00**	**E1**
JOINT MF	Plastic 1" male / female quick connector for KIT								100412CO	**Price on request**	

Tecnoplus 15 Pressure

Centrifugal multi-stage with speed control

A horizontal, multiphase, centrifugal pump with electronic regulation for changing speed and with built-in pressure sensor. It contains a device for detecting and protecting against dry operation, with sequential re-starts in event of failure. Absorbs water hammer effect on the installation.

Applications
Pressurising with constant pressure of domestic water for houses, semi-detached homes, apartments, chalets and rural homes, etc.

Materials
Hydraulic body and impellers in AISI 304.
Diffusers in thermoplastic.
Mechanical seal in graphite and ceramic.
O-rings in NBR.

Motor
Asynchronous, two poles.
IP 55 protection.
Class F insulation.
Continuous operation.
Built-in thermal protector inside the windings.

With 2 m cable H07 RNF 3 x 1 mm^2.
Display with push button to increase or decrease working pressure (150 kPA - 350 kPA).

Limitations
Maximum suction pressure 2 bar intake at suction point.
Water temperature from 4° C to 35° C.
Motor characteristics 230 V / 50 Hz.

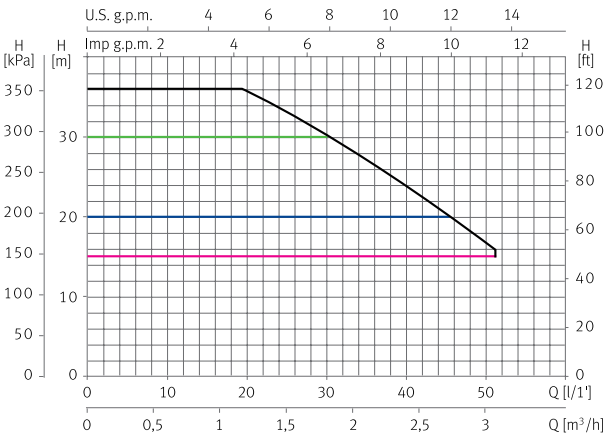
Electronics
Advanced ESPA Speed Drive technology enabling variable speed operation, with automatic self-regulation which maintains the constant pressure required at all times in the home, thanks to its pressure sensor.

Equipment
Complete with Kit Press and pressure gauge.

Hydraulic performance table and prices

Model	I [A]	P1 [kW]	P2		c	l/min	5	10	15	25	30	35	45	50	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0,3	0,6	0,9	1,5	1,8	2,1	2,7	3,0	Code	Price €	Discount cat.
Tecnoplus 15 4	3,6	0,75	0,55	0,75	12	Max.	36	36	36	32	28	25,5	18,5	15	131059	**799,00**	**E3**
						Min.	15	15	15	15	15	15	15	15			

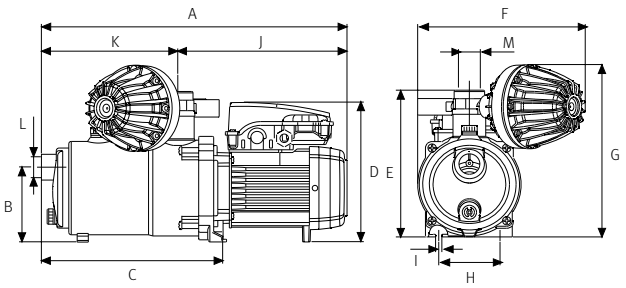
Performance curves at 2900 rpm



The pump can operate atv any point inside the indicated area. The characteristic curves depend on the delivery pressure. By way of example, the curves are shown for delivery pressures of 150, 200 and 300 kPa. The operating limit curve corresponds to the maximum rotating speed.

Dimensions and weights

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Kg
Tecnoplus 15	439	108	261	200	216	241	253,8	88	9	243	196	G1"	G1"	10,5



PRESSURE BUILDING SERVICESA

Acuaplus N Pressure

Submersible multistage pump with variable speed

Applications
Pressurising of domestic water for houses, semi-detached homes, apartments, chalets and rural homes.
Materials
Outer casing, discharge body, impellers, filter, discharge cover and motor casing in AISI 304 stainless steel.
Pump shaft in stainless steel AISI 303.
Diffusers in PPO.
Mechanical seal in aluminium oxide/graphite/steatite/NBR/AISI 304.

Motor
Asynchronous, 2 pole.
IP 68 protection.
Class F insulation.
Continuous operation.
Water-cooled motor.
Single-phase version with Klixon (incorporated thermal protection).

Limitations
Maximum working pressure 8 bar.
Ø of solids 2 mm.
Water temperature from 4° C to 35° C.
Maximum start-ups: 30/hour.
Vertical installation.

Equipment
Multistage submersible pump with electronic variable speed regulation and integrated pressure sensor for constant pressure.
Incorporating a detection and protection device against functioning in dry operation, with sequential start-up attempts in the event of failure.
Reduces the water hammer effect on the installation. Oil chamber with double mechanical seal.
You must install a pressure vessel on the discharge pipework minimum 18 ltrs.

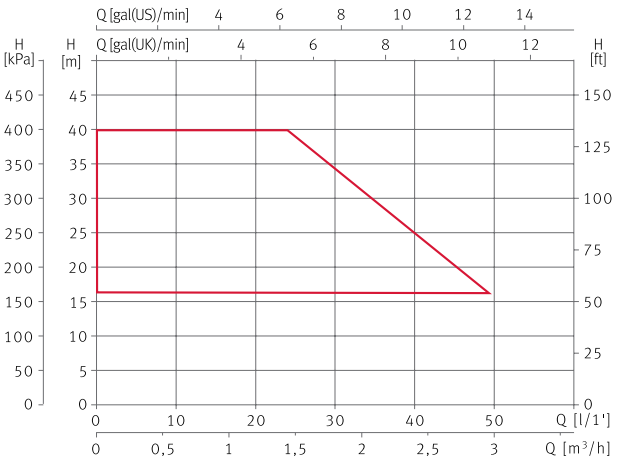
Electronics
Advanced ESPA Speed Drive technology, enabling variable speed operation, with automatic self-regulation which maintains the constant pressure required at all times in the home, thanks to its pressure sensor

ESPA Eco-Efficient Engineering
ErP READY

Hydraulic performance table and prices

Model	I [A]	P1 [kW]	P2		c	l/min	0	10	20	30	40	50	1~230 V (Model M)		
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0	0,6	1,2	1,8	2,4	3,0	Code	Price €	Discount cat.
Acuaplus 5M N	4,7	1	0,75	1	12	mwc	40	40	40	34,6	25,3	16,1	166646	**974,00**	**E1**

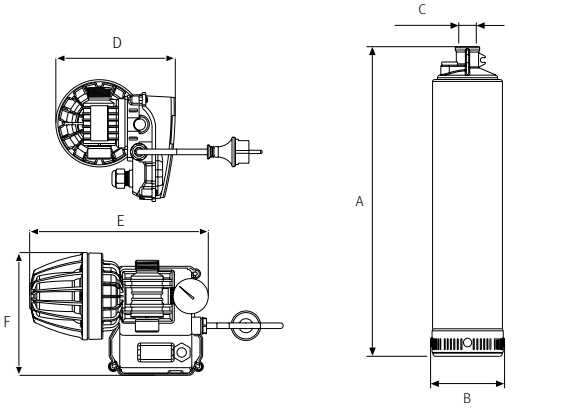
Performance curves at 2900 rpm



The pump can operate atv any point inside the indicated area. The characteristic curves depend on the delivery pressure. By way of example, the curves are shown for delivery pressures of 150, 200 and 300 kPa. The operating limit curve corresponds to the maximum rotating speed.

Dimensions and weights

Model	A	B	C	D	E	F	Kg
Acuaplus 5M N	517	126	1"	170	254	175	11,5



Aquabox Building Services

Compact storage tank and pressurisation unit (with air gap)

Aquabox is ESPA's advanced solution for buildings with low pressure or volumes of flow. It is a competitive, efficient alternative to traditional pressurisation units, eliminating the typical fluctuations in flow, complex mechanical designs and their excessive electrical consumption.

Aquabox is a compact, well proportioned pressurising unit, with an integrated design and maximum energy efficiency. It comprises two basic elements: a latest-generation automatic ESPA pump and a storage tank.
The result of the advanced engineering of these two components combined is an innovative unit offering high levels of convenience in water use, guaranteeing not only its permanent availability (even when the water supply is cut off), but also strong, regular, constant pressure. The 200 ltr tank can be used as a backup system in the event of restrictions on the use of water from the mains. In line with regulation EN 1717, the outer casing incorporates a safety partition to safeguard against the pollution of drinking water.

Applications

Aquabox is multi-purpose and can be used on sites with water supply problems.
Rural areas: second homes, village dwellings, rural tourism, etc.
Urban areas: housing developments, houses, commercial premises, restaurants, etc.

With Fixed Speed Pump

The most competitive, versatile and efficient alternative for all types of buildings.

With Variable Speed Pump

An advanced technology option: maximum pressure control convenience, low noise levels and considerable saving in electrical consumption.

Pump model

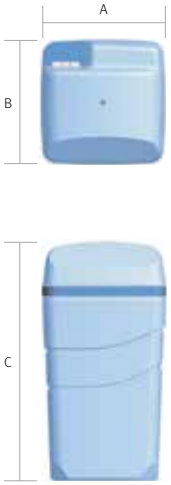
Description	Pump model	Code	Price €	Discount cat.
Aquabox 350 Acuapres07 4M	Acuapres07 4M N	170118	**1.212,00**	**E1**

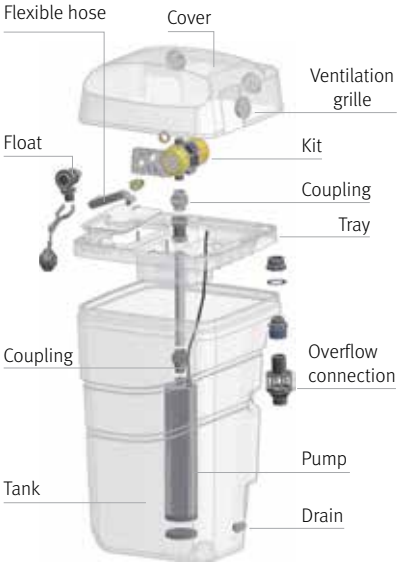
Description	Pump model	Code	Price €	Discount cat.
Acuabox 350 Acuaplus N	Acuaplus N	170123	**1.659,00**	**E1**

All overflow outlet has been built into the tank to safeguard against the possible contamination of drinking water in the public network, in the case of back flow, in compliance with European standard EN 1717.

Pump options for the Aquabox unit / Dimensions

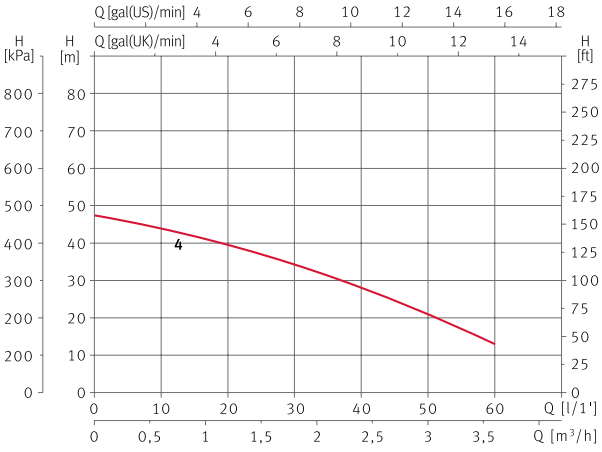
	Acuaplus N	Acuapres07 4
Submersible	X	X
Surface		
Constant pressure-variable speed	X	
Automatic control	X	X
Dry operation protection	X	X
Inlet float	X	X
Overflow duct in accordance with regulation EN1717	X	X
Water supply/outlet connection	3/4"	3/4"
Overflow connection	DN 50	DN 50
Width A [mm]	600	600
Depth B [mm]	600	600
Height C [mm]	1150	1150
Empty tank weight [Kg]	25.5	25.5
Useful tank capacity	200	200
Working pressure [bar]	3	2.5
Flow at working pressure [l/min]	40	30/45
Installed capacity at P1 [kW]	0.95	0.6/0.95
Drain connection	1/2"	1/2"



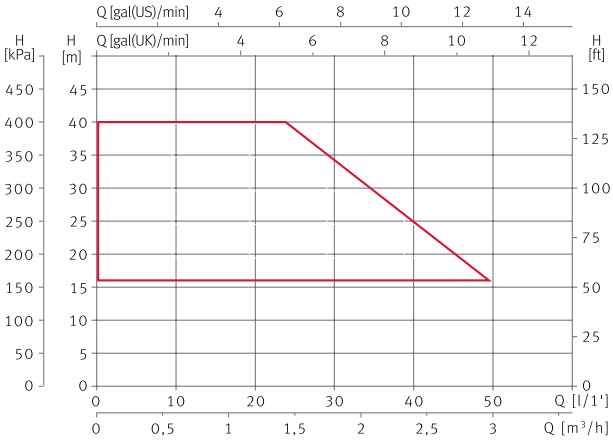


Performance curves at 2900 rpm

Acuapres07 4



Acuaplus N



Speedrive V2 PressurisationSA

Variable frequency drives

Speedrive V2 Innovations

The Speedrive V2 series variable frequency drives represent an advancement in speed controllers for pumping systems, improving important aspects like functionality, with more user-friendly programming and more reliable systems.

Applications

Construction

Residential water booster / Garden irrigation / Fountains / Rainwater harvesting

Agriculture and cattle

Irrigation / Watering / Drip irrigation / Hydroponic culture / Irrigation - spray

General process

Process washing / Desalinisation / Filtration / Water recirculation

ESPA Efficient Engineering

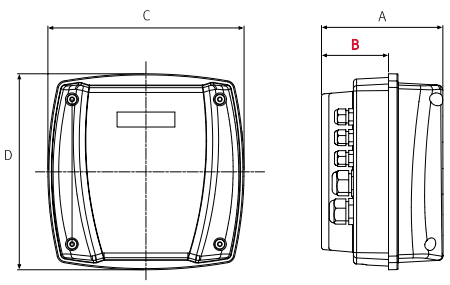
Technical specifications - 50/60 Hz

Model	Input				Output				Code	Price €	Discount cat.
	Power source voltage [V]	Power frequency [Hz]	Maximum motor current [A]	Recommended line protection [A]	Maximum motor power [kW]	Maximum motor current [A]	Motor voltage [V]	Motor frequency [Hz]			
Speedrive V2 M22	1~ 230V AC	50-60	16	25	2,2	10	3~ 230V AC	50-60	203323	**523,00**	**E1**
Speedrive V2 T22	3~ 400V AC	50-60	7	10	2,2	6	3~ 400V AC	50-60	205490	**560,00**	**E1**
Speedrive V2 T55	3~ 400V AC	50-60	15	20	5,5	14	3~ 400V AC	50-60	203321	**930,00**	**E1**

Model	Code	Price €	Discount cat.
Pressure transducer 4- 20 mA 1/4 G 10 bar	TRANSPEEDRIVE	**138,00**	**E1**

Dimensions and weights

Model	A	B	C	D	Kg
Speedrive V2 M22	178	71	207	207	2,6
Speedrive V2 T22	142	85	207	207	2,4
Speedrive V2 T55	142	85	207	207	2,6



Speedrive V2 Pressurisation

1. **New electronics design and greater computing power and control.**
2. **Improved failure detection in the installation protects the equipment.**
3. **Greater processing and communication speed for better operating stability and higher regulation precision.**
4. **Synchronous operation and controlled alternation to improve the installation and extend the life of the pumping system.**
5. **Better communication between devices makes it easier to program and handle the equipment.**
6. **Equipment firmware is updated via USB with improvements to installed pumping systems.**
7. **Protected industrial design to authenticate a genuine ESPA product.**
8. **Speedrive V2 has a patented system that automatically calculates pump shutdown based on the specific characteristics of each installation and setpoint.**

Protection and security

- Dry running with automatic reset
- Detection of pressure transducer failures
- Overcurrent and short-circuit with automatic reset
- Power supply voltage with automatic reset
- Overtemperature with automatic reset
- Earthing and engine phase error
- Communication error

Main technical characteristics

- Degree of protection: IP55
- Maximum working ambient temperature: 40 °C
- Inputs:
  - 1 analogue 4-20mA, with 24 V DC power supply
  - 1 digital input for the level switch
- Outputs:
  - 1 alarm signal
  - Potential-free output (FVC). Maximum 1 A. NO/NC contacts
- Dry run protection, with automatic reset
- Communications: RS 485 serial port
- Integrated to the motor connection box and air cooled
- External pressure transducer 4-20mA
- Backlit screen
- Adjustable minimum working frequency
- USB port for updating the device's firmware
- Pumping system for between 1 and 4 pumps

Pressure transducer

Device for digital pressure reading

Instruction table for the selection of pressurisation units

This table may only be used as a first orientation in choosing a unit and is in no way intended to be a substitute for a qualified technician's bill of quantities.

Pump models in unit	Number of pumps	Optimum working point with all pumps in operation		Inverter availability	Maximum number of households		Maximum number of floors (including the installation floor)
		H (m)	l/min		Type A	Type B	
PRISMA 15 4	1	32	35	x	1	-	4
PRISMA 15 5	1	38	35	x	1	-	6
PRISMA 25 4	1	33	75	x	4	2	4
PRISMA 25 5	1	43	75	x	4	2	6
PRISMA 35 4N	1	44	80	x	5	3	8
PRISMA 35 5N	1	55	80	x	5	3	11
PRISMA 45 4N	1	35	150	x	16	9	5
PRISMA 45 5N	1	45	150	x	16	9	8
PRISMA 15 4M	2	30	70	x	3	2	3
PRISMA 15 5M	2	37	70	x	3	2	6
BAT1 100M	2	35	70	no	3	2	4
MULTI 25 4	2	40	95	x	6	4	6
MULTI 25 5	2	50	95	x	6	4	9
BAT1 150	2	45	100	no	7	5	8
BAT1 200	2	60	100	no	7	5	12
BAT1 300	2	60	130	no	14	9	12
PRISMA 25 4	2	30	160	x	20	12	3
PRISMA 25 5	2	40	160	x	20	12	6
PRISMA 35 4N	2	37	200	x	30	20	6
PRISMA 35 5N	2	50	200	x	30	20	9
MULTI 35 4N	2	37	200	x	30	20	6
MULTI 35 5N	2	45	200	x	30	20	8
MULTI 35 6N	2	60	200	x	30	20	12
MULTI 35 8N	2	84	200	x	30	20	20
PRISMA 45 4N	2	35	300	x	56	32	5
PRISMA 45 5N	2	45	300	x	56	32	8
MULTI 55 4N	2	37	350	x	70	40	6
MULTI 55 6N	2	55	350	x	70	40	11
MULTI 55 7N	2	65	350	x	70	40	14
VE121 4	2	50	650	x	160	110	7
VE121 5	2	62	650	x	160	110	11
VE121 6	2	75	650	x	160	110	14
VE121 7	2	87	650	x	160	110	18
VE121 8	2	100	650	x	160	110	21
VE121 9	2	112	650	x	160	110	24

Type A residence: Kitchen + 1 bathroom + 1 utility room, 8 devices in total
Type B residence: Kitchen + 2 s + utility room, garage, 12 devices in total
Residual pressure for the top floor is a minimum 1.5 bar. One floor = 3 meters.
Caution: Residual pressure per floor must not exceed 6 bar, if this should be the case pressure reducing valves should be installed.
The data shown is purely indicative and refers to ideal usage conditions in installations carried out in accordance with best practice, with the pipes having the correct diameters and lengths and with the required flow-rate.

Booster sets

CPDI PRISMA

Two-pump multi-impeller pressurisation units, controlled by alternate cascading electronic start-up boards. The starting and shut-off of the pumps is performed using pressure switches.
Shut-off valves in the inlet and outlet, check valves in outlet. Versions with check valves in inlets for use with air supply tanks.
The unit is supplied tested and regulated for ease of installation.

Hydraulic performance table and prices

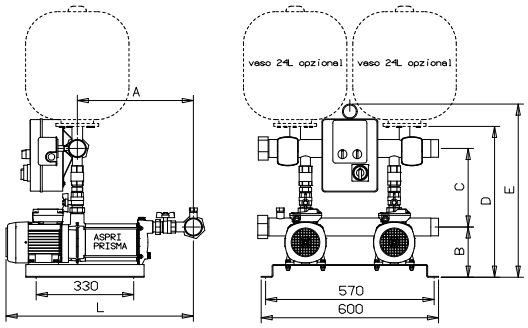
Model	Values per individual pump installed					Pressure switch adjustment		Manifold diameter		Autoclave capacity		1~230 V			3~400 V		
	P1	P2		I [A]													
	kW	kW	Hp	1~ 230V	3~ 400V	Press. 1 bar	Press. 2 bar	Asp.	Mand.	Membrane	Air supply	Code	Price €	Discount cat.	Code	Price €	Discount cat.
CPDI PRISMA 15 4	0,8	0,55	0,75	3,5	1,3	4,0 - 2,5	3,5 - 2,0	2"	2"	2 x 24	80	CPDIPRISMA154M	**1.500,00**	**E1**			
CPDI PRISMA 15 5	0,95	0,75	1	4,1	1,9	4,5 - 3,0	4,0 - 2,5	2"	2"	2 x 24	80	CPDIPRISMA155M	**1.532,00**	**E1**			
CPDI PRISMA 25 4	1,5	0,92	1,25	6,8	2,5	4,0 - 2,5	3,7 - 2,0	2"	2"	80	150	CPDIPRISMA254M	**1.679,00**	**E1**	CPDIPRISMA254	**1.764,00**	**E1**
CPDI PRISMA 25 5	1,7	1,1	1,5	7,4	3,0	5,0 - 3,5	4,5 - 3,0	2"	2"	100	150	CPDIPRISMA255M	**1.786,00**	**E1**	CPDIPRISMA255	**1.793,00**	**E1**
CPDI PRISMA 35 4N	1,8	1,1	1,5	8,4	3,1	5,0 - 3,5	4,7 - 3,0	2"1/2	2"	150	200	CPDIPRISMA354NM	**2.288,00**	**E1**	CPDIPRISMA354N	**2.319,00**	**E1**
CPDI PRISMA 35 5N	2,3	1,5	2	10,2	4	6,0 - 4,5	5,7 - 4,0	2"1/2	2"	150	300	CPDIPRISMA355NM	**2.406,00**	**E2**	CPDIPRISMA355N	**2.436,00**	**E1**
CPDI PRISMA 45 4N	2,2	1,5	2		4	4,0 - 2,5	3,5 - 2,0	2"1/2	2"	200	300				CPDIPRISMA454N	**2.547,00**	**E1**
CPDI PRISMA 45 5N	2,8	2,2	3		5	5,5 - 4,0	5,2 - 3,5	2"1/2	2"	250	500				CPDIPRISMA455N	**2.713,00**	**E1**

Hydraulic performance with all pumps in operation. In grey: Optimum working point

Model	l/min	10	20	30	40	50	60	70	80	90	100	120	150	160	180	200	210	240	250	280	300	400	500
	m³/h	0,6	1,2	1,8	2,4	3,0	3,6	4,2	4,8	5,4	6,0	7,2	9,0	9,6	10,8	12,0	12,6	14,4	15,0	16,8	18,0	24,0	30,0
CPDI PRISMA 15 4	mwc	44	43		40		34	30	28		21	14											
CPDI PRISMA 15 5		53	51		47		41	37	34		25	17											
CPDI PRISMA 25 4				43			42			40		37	33	30	28		22	15					
CPDI PRISMA 25 5				56			55			52,5		48	43	40	37		29	20					
CPDI PRISMA 35 4N					54				51			48		44		37		33		27	23		
CPDI PRISMA 35 5N					68				64			60		55		50		40		34	30		
CPDI PRISMA 45 4N						48					47		45			42			39		36	24	11
CPDI PRISMA 45 5N						61					59		56			54			50		45	31	15

Dimensions

Model	L	A	B	C	D	E
CPDI PRISMA 15 4	551	349	153	255	483	559
CPDI PRISMA 15 5	575	373	153	255	483	559
CPDI PRISMA 25 4	581	364	170	272	517	593
CPDI PRISMA 25 5	634	393	170	272	517	593
CPDI PRISMA 35 4N	651	370	190	276	541	617
CPDI PRISMA 35 5N	678	397	190	276	541	617
CPDI PRISMA 45 4N	696	414	195	276	541	617
CPDI PRISMA 45 5N	727	445	195	276	546	622



Booster sets

CPDI MULTI

Two-pump pressurisation units multi-impeller unit in stainless steel, controlled
from an alternating and cascading electronic board. The starting and shut-off of the pumps is performed using pressure switches.
Basic unit with designed to position the panel bracket in 7 different positions according to the systems' needs.
Shut-off valves in the inlet and outlet, check valves in outlet. Versions with check valves in inlets for use with air supply tanks.
The unit is supplied tested and regulated for ease of installation.

Hydraulic performance table and prices

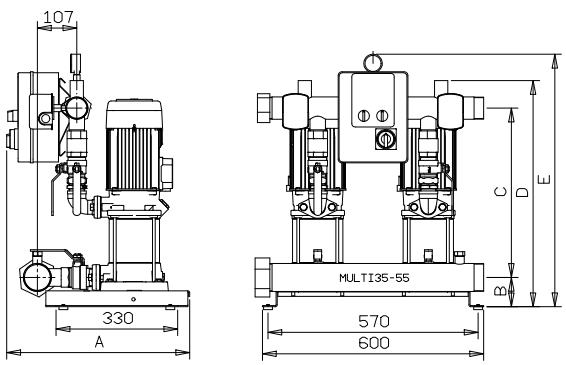
Model	Values per individual pump installed					Pressure switch adjustment		Manifold diameter		Autoclave capacity		1~230 V			3~400 V		
	P1	P2		I [A]		Press. 1 bar	Press. 2 bar	Suc.	Disch.	Membrane	Air supply	Code	Price €	Discount cat.	Code	Price €	Discount cat.
	kW	kW	Hp	1~ 230V	3~ 400V												
CPDI MULTI 25 4	1,1	0,75	1	5,0	2,0	5,0 - 3,5	4,5 - 3,0	2"	2"	2 x 24	80	CPDIMULTI254M	**2.139,00**	**E1**	CPDIMULTI254	**2.171,00**	**E1**
CPDI MULTI 25 5	1,3	0,9	1,2	6,0	2,0	6,0 - 4,5	5,7 - 4,0	2"	2"	2 x 24	80	CPDIMULTI255M	**2.208,00**	**E1**	CPDIMULTI255	**2.240,00**	**E1**
CPDI MULTI 35 4 N	1,8	1,1	1,5	8,0	3,0	4,5 - 3,0	4,0 - 2,5	2"1/2	2"	150	200	CPDIMULTI354NM	**2.113,00**	**E1**	CPDIMULTI354N	**2.144,00**	**E1**
CPDI MULTI 35 5 N	2,2	1,5	2	10,2	4,0	5,5 - 4,0	5,2 - 3,5	2"1/2	2"	150	200	CPDIMULTI355NM	**2.592,00**	**E1**	CPDIMULTI355N	**2.188,00**	**E1**
CPDI MULTI 35 6 N	2,7	2,2	3		4,1	6,5 - 5,0	6,0 - 4,5	2"1/2	2"	200	300				CPDIMULTI356N	**2.278,00**	**E1**
CPDI MULTI 35 8 N	3,6	3	4		6,1	9,5 - 7,0	9,0 - 6,5	2"1/2	2"	200	300				CPDIMULTI358N	**2.997,00**	**E1**
CPDI MULTI 55 4 N	2,8	2,2	3		4,1	4,5 - 3,0	4,0 - 2,5	2"1/2	2"1/2	200	300				CPDIMULTI554N	**2.801,00**	**E1**
CPDI MULTI 55 6 N	4,2	3	4		7	6,5 - 5,0	6,0 - 4,5	2"1/2	2"1/2	300	500				CPDIMULTI556N	**3.314,00**	**E1**
CPDI MULTI 55 7 N	4,9	4	5,5		9	7,5 - 6,0	7,0 - 5,5	2"1/2	2"1/2	300	500				CPDIMULTI557N	**3.749,00**	**E1**

Hydraulic performance with all pumps in operation. In grey: Optimum working point

Model	l/min	20	34	40	60	66	80	95	100	120	140	150	170	200	250	300	350	400	500	600
	m³/h	1,2	2,0	2,4	3,6	4,0	4,8	5,7	6,0	7,2	8,4	9,0	10,2	12,0	15,0	18,0	21,0	24,0	30,0	36,0
CPDI MULTI 25 4	mwc	57		54	50		45	40	39	33	26		16							
CPDI MULTI 25 5		71		67	61		55	50	48	40	31		21							
CPDI MULTI 35 4 N			54			51			48			43		37	29,5	21	11,8			
CPDI MULTI 35 5 N			65,4			63,5			60			54,5		45	36	26,2	15			
CPDI MULTI 35 6 N			82			79,5			76			69		60	49	36,7	23			
CPDI MULTI 35 8 N			108			105			101			93		85	70	53	35			
CPDI MULTI 55 4 N				50					47			45		43		39	37	33	26	16
CPDI MULTI 55 6 N				77					73			70		70		60	55	52	43	29
CPDI MULTI 55 7 N				90					86			82		82		70	65	60	49	35

Dimensions

Model	A	B	C	D	E
CPDI MULTI 25 4	485	85	454	613	685
CPDI MULTI 25 5	485	85	474	633	705
CPDI MULTI 35 4 N	496	79	459	613	685
CPDI MULTI 35 5 N	496	79	483,5	637,5	709,5
CPDI MULTI 35 6 N	496	79	508	662	734
CPDI MULTI 35 8 N	496	79	532,5	686,5	758,5
CPDI MULTI 55 4 N	496	76	518	672	744
CPDI MULTI 55 6 N	496	76	595	749	821
CPDI MULTI 55 7 N	496	76	635	789	861



Booster sets

CPDI VE121

Two-pump pressurisation units multi-impeller unit in stainless steel, controlled
from an alternating and cascading electronic board. The starting and shut-off of the pumps is performed using pressure switches.
Basic unit with designed to position the panel bracket in 7 different positions according to the systems' needs.

Shut-off valves in the inlet and outlet, check valves in outlet. Versions with check valves in inlets for use with air supply tanks.
The unit is supplied tested and regulated for ease of installation.

Hydraulic performance table and prices

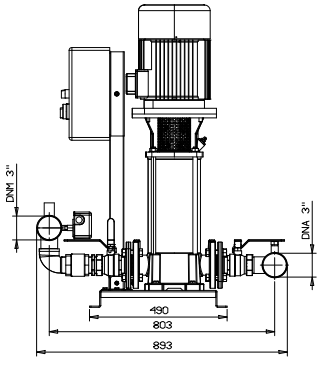
Model	Values per individual pump installed					Pressure switch adjustment				Manifold diameter		Optimum working point for 2 pumps		Max. performance (for 2 pumps)			Autoclave volume [l]		3~400 V		
	Ø Suc. Disch.	P1	P2		3- /\ 400V	3- Y 690V	p1		p2		Suc.	Disch.	Q [l/min]	H [m]	H max [m]	Q max [l/min]	H [m]	Membr.	Power supply	Code	Price €	Discount cat.
		kW	kW	Hp			[bar]		[bar]													
CPDI VE121 4	DN50 - DN50	5,5	5,5	7,5	10,1	5,8	6,0	4,5	5.7	4.0	3"	3"	650	50	66	910	29	750	1500	CPDIVE1214	**6.416,00**	E1
CPDI VE121 5	DN50 - DN50	6,5	5,5	7,5	11,8	7,7	6,5	5,0	6.0	4.5	3"	3"	650	62	83	910	36	750	1500	CPDIVE1215	**6.566,00**	E1
CPDI VE121 6	DN50 - DN50	7,8	7,5	10	14,6	8,5	9.0	7,5	8,5	7,0	3"	3"	650	75	100	910	43	1000	1500	CPDIVE1216	**7.217,00**	E1
CPDI VE121 7	DN50 - DN50	9,2	9,2	12,5	16,5	9,5	10,0	8,5	9,5	8,0	3"	3"	650	87	116	910	50	1000	1500	CPDIVE1217	**8.193,00**	E1
CPDI VE121 8	DN50 - DN50	10,6	11	15	19,5	11,3	11,0	9,5	10,5	8,0	3"	3"	650	100	133	910	57	1000	1500	CPDIVE1218	**8.284,00**	E1
CPDI VE121 9	DN50 - DN50	13,8	15	20	21	12,2	12,0	10,5	11,5	9,0	3"	3"	650	112	150	910	64	1000	1500	CPDIVE1219	**12.544,00**	E1

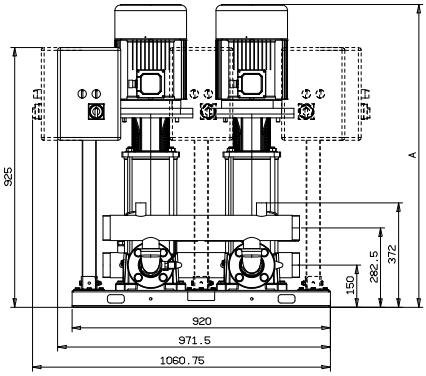
Hydraulic performance with all pumps in operation. In grey: Optimum working point

Model	l/min	0	130	260	390	520	650	780	910
	m³/h	0	7,8	15,6	23,4	31,2	39	46,8	54,6
CPDI VE121 4	mwc	67	66	64	61	56	50	41	28
CPDI VE121 5		83	82	81	77	71	62	51	36
CPDI VE121 6		100	99	97	92	85	75	61	43
CPDI VE121 7		117	115	113	107	99	87	72	50
CPDI VE121 8		133	132	129	123	113	100	82	57
CPDI VE121 9		150	148	145	138	127	112	92	64

Dimensions

Model	A
CPDI VE121 4	827
CPDI VE121 5	875
CPDI VE121 6	1132
CPDI VE121 7	1180
CPDI VE121 8	1250
CPDI VE121 9	1298





CKE1 Variable speed pressurisation

Single pump booster sets

CKE1 PRISMA

One horizontal axis multi-impeller pump pressurisation unit controlled by Speedrive inverter with continuous pump rotor speed regulation to maintain the configured output pressure and therefore in line with the water quantity required by the installation.

Ensures a constant output pressure and maximum energy saving.
The unit is supplied tested and regulated for ease of installation. Expansion tank included in the price.

Hydraulic performance table and prices

Model	Model Speedrive	Values per individual pump installed						Presetting		Maximum performance		3~400 V		
		Power supply (50Hz)	P1	P2		I [A]		H (m)	Q (l/min)	H (m)	Q (l/min)	Code	Price €	Discount cat.
			kW	kW	Hp	1~ 230V	3~ 400V							
CKE1MI PRISMA 154	M2	1 x 230V	0,7	0,55	0,75	2,3		30	35	45	65	CKE1MIPRISMA154	**906,00**	**E1**
CKE1MI PRISMA 155	M2	1 x 230V	0,95	0,75	1,0	3,3		40	35	52	65	CKE1MIPRISMA155	**922,00**	**E1**
CKE1MI PRISMA 254	M2	1 x 230V	1,5	0,92	1,25	4,3		30	75	45	120	CKE1MIPRISMA254	**1.023,00**	**E1**
CKE1MI PRISMA 255	M2	1 x 230V	1,7	1,1	1,5	5,2		40	75	56	120	CKE1MIPRISMA255	**1.033,00**	**E1**
CKE1MI PRISMA 354N	M2	1 x 230V	1,8	1,1	1,5	5,3		45	80	54	160	CKE1MIPRISMA354N	**1.278,00**	**E1**
CKE1MI PRISMA 355N	M2	1 x 230V	2,3	1,5	2	6,9		55	80	68	160	CKE1MIPRISMA355N	**1.337,00**	**E1**
CKE1MI PRISMA 454N	M2	1 x 230V	2,2	1,5	2	6,9		35	150	49	250	CKE1MIPRISMA454N	**1.359,00**	**E1**
CKE1I PRISMA 254	T2	3 x 400V	1,4	0,92	1,25		2,5	30	75	45	120	CKE1IPRISMA254	**1.060,00**	**E1**
CKE1I PRISMA 255	T2	3 x 400V	1,7	1,1	1,5		3,0	40	75	56	120	CKE1IPRISMA255	**1.071,00**	**E1**
CKE1I PRISMA354N	T2	3 x 400V	1,8	1,1	1,5		3,1	45	80	54	160	CKE1IPRISMA354N	**1.316,00**	**E1**
CKE1I PRISMA355N	T2	3 x 400V	2,3	1,5	2,0		4,0	55	80	68	160	CKE1IPRISMA355N	**1.374,00**	**E1**
CKE1I PRISMA454N	T2	3 x 400V	2,2	1,5	2,0		4,0	35	150	49	250	CKE1IPRISMA454N	**1.396,00**	**E1**
CKE1I PRISMA455N	T2	3 x 400V	2,8	2,0	3,0		5,0	45	150	62	250	CKE1IPRISMA455N	**1.483,00**	**E1**

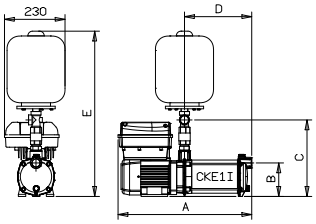
Hydraulic performance in grey: Optimum working point

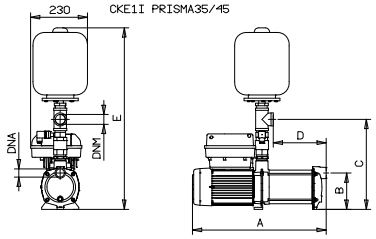
Model	l/min	5	10	15	20	25	30	35	40	45	50	60	75	80	90	100	105	120	125	140	150	200	250
	m³/h	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7	3,0	3,6	4,5	4,8	5,4	6,0	6,3	7,2	7,5	8,4	9,0	12,0	15,0
CKE1I PRISMA154	mwc	44	43		40		34	32	28		21	14											
CKE1I PRISMA155		53	51		47		41	38	34		25	17											
CKE1I PRISMA254				43			42			40		37	33		28		22	15					
CKE1I PRISMA255				56			55			52		48	43		37		29	20					
CKE1I PRISMA354N					54				51			48		44		39		33,5		27	23		
CKE1I PRISMA355N					68				64			60		55		49		41,5		34	30		
CKE1I PRISMA454N						48					47		45			42			39		35	24	11
CKE1I PRISMA455N						**61**					59		57			54			50		45	31	15

Dimensions

Model	A	B	C	D	E
CKE1I PRISMA154	424	110	268	211	610
CKE1I PRISMA155	448	110	268	235	610
CKE1I PRISMA254	458	127	290	229	627
CKE1I PRISMA255	507	127	290	255	627

Model	A	B	C	D	E	DNA	DNM
CKE1I PRISMA354N	528	147	268	191	734	1"1/4	1"1/4
CKE1I PRISMA355N	553	147	268	215	734	1"1/4	1"1/4
CKE1I PRISMA454N	558	152	290	220	740	1"1/2	1"1/4
CKE1I PRISMA455N	590	152	290	251	740	1"1/2	1"1/4





CKE2 Variable speed pressurisation

Two-pump variable speed pressurisation units

CKE2 PRISMA

Gruppo di PRESSURE BUILDING SERVICESA a due pompe multigirante ad asse orizzontale ognuna controllata mediante inverter Speedrive interconnessi, con regolazione continua della velocità di rotazione delle pompe per mantenere la pressione di erogazione impostata e quindi in funzione della quantità di acqua richiesta nell'installazione.

Garantisce una pressione costante di erogazione ed il massimo risparmio energetico.
Il gruppo viene fornito testato e regolato per una facile installazione.

Hydraulic performance table and prices

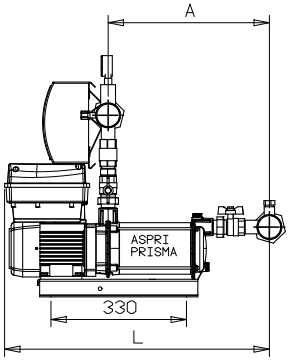
Model		Model Speedrive		Values per individual pump installed					Manifold diameter		Presetting*		Maximum performance*		CKE2 MI 1 x 230V			CKE2 I 3 x 400V		
				P1	P2		I [A]													
CKE2 MI 1 x 230V	CKE2 I 3 x 400V	1 x 230V	3 x 400V	kW	kW	Hp	1~ 230V	3~ 400V	Suc.	Disch.	H (m)	Q (l/min)	H (m)	Q (l/min)	Code	Price €	Discount cat.	Code	Price €	Discount cat.
CKE2 MI PRISMA 154		M2		0,8	0,55	0,75	3,6		2"	2"	30	72	45	115	CKE2MIPRISMA154	**2.527,00**	**E1**			
CKE2 MI PRISMA 155		M2		0,95	0,75	1	4,1		2"	2"	35	75	52	115	CKE2MIPRISMA155	**2.558,00**	**E1**			
CKE2 MI PRISMA 254	CKE2 I PRISMA254	M2	T2	1,5	0,92	1,25	6,8	2,5	2"	2"	30	160	45	235	CKE2MIPRISMA254	**2.760,00**	**E1**	CKE2IPRISMA254	**2.915,00**	**E1**
CKE2 MI PRISMA 255	CKE2 I PRISMA255	M2	T2	1,7	1,1	1,5	7,0	3,0	2"	2"	40	160	56	235	CKE2MIPRISMA255	**2.781,00**	**E1**	CKE2IPRISMA255	**2.936,00**	**E1**
CKE2 MI PRISMA 354N	CKE2 I PRISMA354N	M2	T2	1,8	1,1	1,5	8,0	3,0	2 1/2"	2"	37	200	56	290	CKE2MIPRISMA354N	**3.308,00**	**E1**	CKE2IPRISMA354N	**3.455,00**	**E1**
	CKE2 I PRISMA355N		T2	2,3	1,5	2	10,2	4	2 1/2"	2"	48	200	70	290				CKE2IPRISMA355N	**3.571,00**	**E1**
	CKE2 I PRISMA454N		T2	2,2	1,5	2		4	2 1/2"	2"	35	300	50	490				CKE2IPRISMA454N	**3.684,00**	**E1**
	CKE2 I PRISMA455N		T2	2,8	2,2	3		5	2 1/2"	2"	45	300	64	490				CKE2IPRISMA455N	**3.848,00**	**E1**

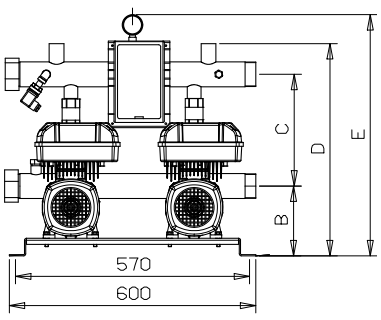
Hydraulic performance with all pumps in operation. In grey: Optimum working point

Model	l/min	10	20	30	40	50	60	70	80	90	100	120	150	160	180	200	210	240	250	280	300	400	500
	m³/h	0,6	1,2	1,8	2,4	3,0	3,6	4,2	4,8	5,4	6,0	7,2	9,0	9,6	10,8	12,0	12,6	14,4	15,0	16,8	18,0	24,0	30,0
CKE2I PRISMA 15 4	mwc	44	43		40		34	30	28		21	14											
CKE2I PRISMA 15 5		53	51		47		41	37	34		25	17											
CKE2I PRISMA 25 4				43			42			40		37	33	30	28		22	15					
CKE2I PRISMA 25 5				56			55			52,5		48	43	40	37		29	20					
CKE2I PRISMA 35 4					54				51			48		44		37		33		27	23		
CKE2I PRISMA 35 5					68				64			60		55		50		40		34	30		
CKE2I PRISMA 45 4						48					47		45			42			39		36	24	11
CKE2I PRISMA 45 5						61					59		56			54			50		45	31	15

Dimensions

Model	L	A	B	C	D	E
CKE2I PRISMA 15 4	551	349	153	255	483	559
CKE2I PRISMA 15 5	575	373	153	255	483	559
CKE2I PRISMA 25 4	581	364	170	272	517	593
CKE2I PRISMA 25 5	634	393	170	272	517	593
CKE2I PRISMA 35 4N	651	370	190	276	541	617
CKE2I PRISMA 35 5N	678	397	190	276	541	617
CKE2I PRISMA 45 4N	696	414	195	276	541	617
CKE2I PRISMA 45 5N	727	445	195	276	546	622





CKE2 Variable speed pressurisation

Two-pump variable speed pressurisation units

CKE2 MULTI

One horizontal axis multi-impeller pump pressurisation unit controlled by Speedrive inverter with continuous pump rotor speed regulation to maintain the configured output pressure and therefore in line with the water quantity required by the installation.

Ensures a constant output pressure and maximum energy saving.
The unit is supplied tested and regulated for ease of installation. Expansion tank included in the price.

Hydraulic performance table and prices

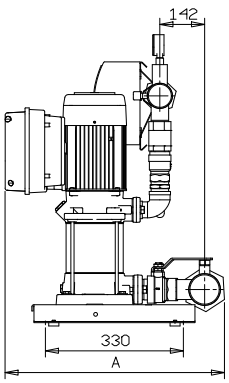
Model		Model Speedrive		Values per individual pump installed					Manifold diameter		Presetting*		Maximum performance*		CKE2 MI 1 x 230V			CKE2 I 3 x 400V		
				P1	P2		I [A]													
CKE2 MI 1 x 230V	CKE2 I 3 x 400V	1 x 230V	3 x 400V	kW	kW	Hp	1~ 230V	3~ 400V	Suc.	Disch.	H (m)	Q (l/min)	H (m)	Q (l/min)	Code	Price €	Discount cat.	Code	Price €	Discount cat.
CKE2 MI MULTI 25 4	CKE2 I MULTI 25 4	M2	T2	1,1	0,75	1	5,8	2,3	2"	2"	40	95	56	165	CKE2MIMULTI254	**3.239,00**	**E1**	CKE2IMULTI254	**3378,00**	**E1**
CKE2 MI MULTI 25 5	CKE2 I MULTI 25 5	M2	T2	1,3	0,92	1,2	6,4	2,5	2"	2"	50	95	70	135	CKE2MIMULTI255	**3.308,00**	**E1**	CKE2IMULTI255	**3447,00**	**E1**
CKE2 MI MULTI 35 4N	CKE2 I MULTI 35 4N	M2	T2	1,8	1,1	1,5	8,4	3,1	2 1/2"	2"	37	200	56	340	CKE2MIMULTI354N	**3.223,00**	**E1**	CKE2IMULTI354N	**3362,00**	**E1**
CKE2 MI MULTI 35 5N	CKE2 I MULTI 35 5N	M2	T2	2,2	1,5	2	10,2	4,0	2 1/2"	2"	46	200	64	340	CKE2MIMULTI355N	**3.261,00**	**E1**	CKE2IMULTI355N	**3399,00**	**E1**
	CKE2 I MULTI 35 6N		T2	2,7	2,2	3		6,5	2 1/2"	2"	60	200	85	340				CKE2IMULTI356N	**3489,00**	**E1**
	CKE2 I MULTI 35 8N		T2	3,6	3	4		8,9	2 1/2"	2"	84	200	110	340				CKE2IMULTI358N	**4971,00**	**E1**
	CKE2 I MULTI 55 4N		T2	2,8	2,2	3		4,8	2 1/2"	2 1/2"	36	350	52	585				CKE2IMULTI554N	**3970,00**	**E1**
	CKE2 I MULTI 55 6N		T2	4,2	3	4		7	2 1/2"	2 1/2"	55	350	80	585				CKE2IMULTI556N	**4962,00**	**E1**
	CKE2 I MULTI 55 7N		T2	4,9	4	5,5		9	2 1/2"	2 1/2"	65	350	92	585				CKE2IMULTI557N	**5408,00**	**E1**

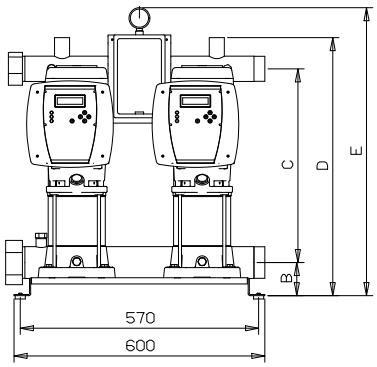
Hydraulic performance with all pumps in operation. In grey: Optimum working point

Model	l/min	20	34	40	60	66	80	95	100	120	140	150	170	200	250	300	350	400	500	600
	m³/h	1,2	2,0	2,4	3,6	4,0	4,8	5,7	6,0	7,2	8,4	9,0	10,2	12,0	15,0	18,0	21,0	24,0	30,0	36,0
CKE2I MULTI 25 4	mwc	57		54	50		45	40	39	33	26		16							
CKE2I MULTI 25 5		71		67	61		55	50	48	40	31		21							
CKE2I MULTI 35 4 N			54			51			48			43		37	29,5	21	11,8			
CKE2I MULTI 35 5 N			65,4			63,5			60			54,5		45	36	26,2	15			
CKE2I MULTI 35 6 N			82			79,5			76			69		60	49	36,7	23			
CKE2I MULTI 35 8 N			108			105			101			93		85	70	53	35			
CKE2I MULTI 55 4 N				50					47			45		43		39	37	33	26	16
CKE2I MULTI 55 6 N				77					73			70		67		60	55	52	43	29
CKE2I MULTI 55 7 N				90					86			82		78		70	65	60	49	35

Dimensions

Model	A	B	C	D	E
CKE2I MULTI 25 4	514	85	454	613	685
CKE2I MULTI 25 5	514	85	474	633	705
CKE2I MULTI 35 4 N	525	79	459	613	685
CKE2I MULTI 35 5 N	525	79	483,5	637,5	709,5
CKE2I MULTI 35 6 N	525	79	508	662	734
CKE2I MULTI 35 8 N	525	79	532,5	686,5	758,5
CKE2I MULTI 55 4 N	525	79	518	672	744
CKE2I MULTI 55 6 N	525	79	595	749	821
CKE2I MULTI 55 7 N	525	79	635	789	861





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GARDEN

VG 400AS Drainage: clear water

Submersible pumps, Vortex system

Applications
Drainage of clear water.
Emptying of draings, residential sumps, rain water tanks, etc.
Emergency emptying of flooded garages or basements.
Water transfer from tanks and cisterns.

Materials
Pump body: plastic

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.

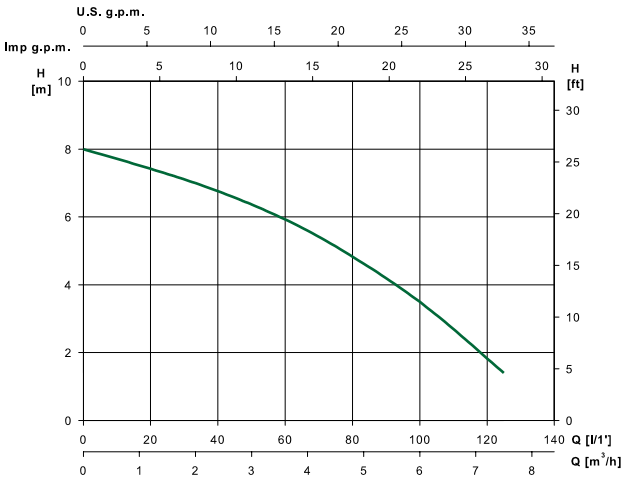
Limitations
Maximum solids handling: Ø 5 mm.
Maximum immersion: 7 m.
Maximum liquid temperature: 35 °C.
Discontinuous operation.

Equipment
Supplied with 10 m power cable H05RN-F and plug.
With float switch.
Outlet plastic connector for different hose diameters.

Hydraulic performance table and prices

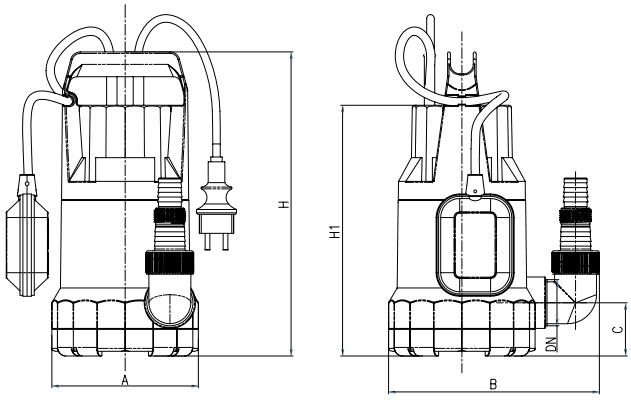
230V 50Hz	I [A]	P1 [W]	P2 [W]	c [µF]	Q max. (l/h)	H max. (m)	IP	Max. immers. (m)	Max. solids handling (mm)	Max. temp. (°C)	1~230 V (Model M A)		
											Code	Price €	Discount cat.
VG 400AS	1,5	400	240	6	7.000	8,0	68	7	5	35	201990	**84,00**	**E2**

Performance curves at 2900 rpm



Dimensions and weights

Model	DN	A	B	C	H	H1	Kg
VG 400AS	1 1/2"	154	221,4	56	319,5	263,5	4,5



VG V 750AS Drainage: clear water

Submersible pumps, Vortex system

Applications
Drainage of sewage and dirty water, operation in septic tanks and small purifying installations.

Materials
Pump body: plastic.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.

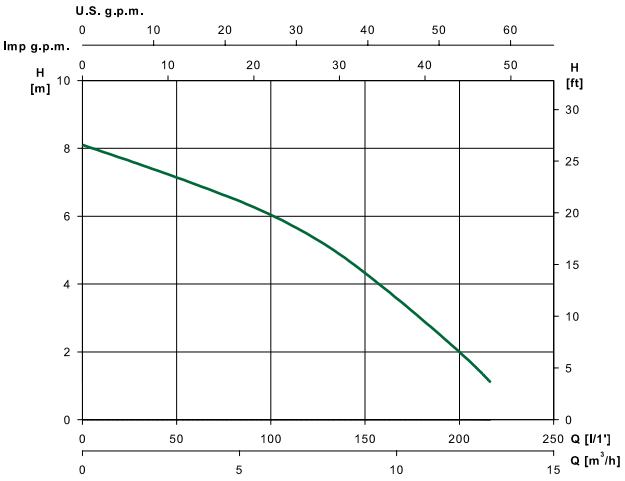
Limitations
Maximum solids handling: Ø 5 mm.
Maximum immersion: 7 m.
Maximum liquid temperature: 35° C.
Discontinuous operation.

Equipment
Supplied with 10 m power cable H05RN-F and plug.
With float switch.
Outlet plastic connector for different hose diameters.

Hydraulic performance table and prices

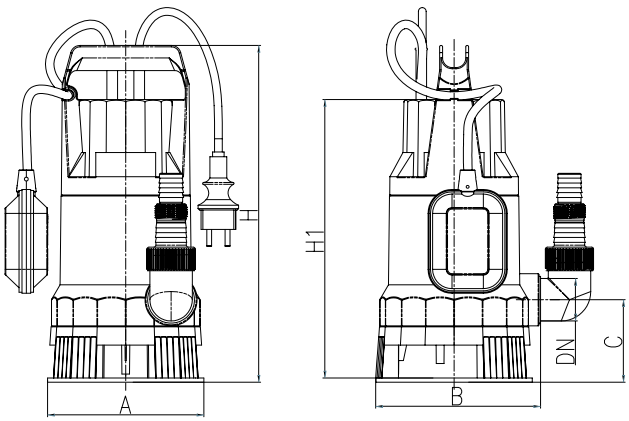
230V 50Hz	I [A]	P1 [W]	P2 [W]	c [µF]	Q max. (l/h)	H max. (m)	IP	Prof. max. immers. (m)	Max. solids handling (mm)	Max. temp. (°C)	1~230 V (Model M A)		
											Code	Price €	Discount cat.
VG V 750AS	2,6	750	450	8	13.000	8,0	68	7	35	35	201991	**113,00**	**E2**

Performance curves at 2900 rpm



Dimensions and weights

Model	DN	A	B	C	H	H1	Kg
VGV 750AS	1 1/2"	162	170,8	85,5	369	308,5	6,25



GARDEN

VX 750AS Drainage: clear water

Portable submersible pumps

Applications
Emptying of draings, residential sumps, rain water tanks, etc.
Emergency emptying of flooded garages or basements.
Water transfer from tanks and cisterns.

Materials
Pump body in stainless steel.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.

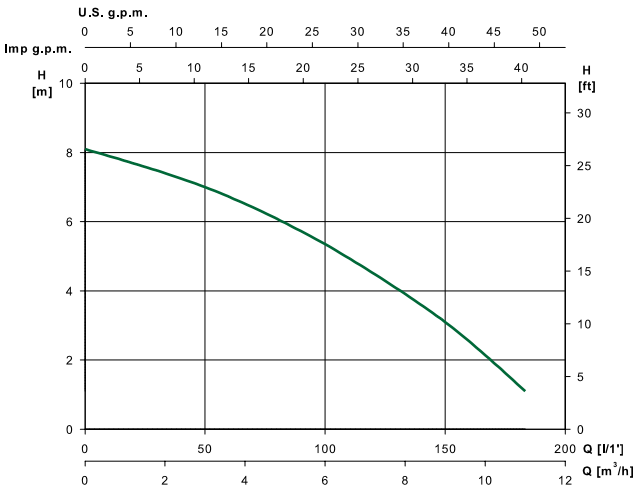
Limitations
Maximum solids handling: Ø 5 mm.
Maximum immersion: 7 m.
Maximum liquid temperature: 35° C.
Discontinuous operation.

Equipment
Supplied with 10 m power cable H05RN-F and plug.
With float switch.
Outlet plastic connector for different hose diameters.

Hydraulic performance table and prices

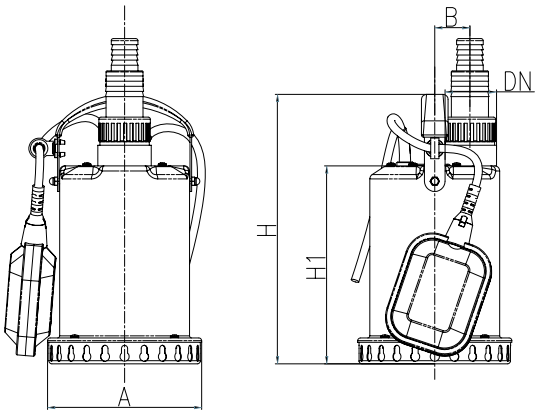
230V 50Hz	I [A]	P1 [W]	P2 [W]	c [µF]	Q max. (l/h)	H max. (m)	IP	Prof. max. immers. (m)	Max. solids handling (mm)	Max. temp. (°C)	1~230 V (Model M A)		
											Code	Price €	Discount cat.
VX 750 AS	2,6	750	450	8	11.000	8,5	68	7	5	35	201992	**141,00**	**E2**

Performance curves at 2900 rpm



Dimensions and weights

Model	DN	A	B	H	H1	Kg
VX 750AS	1 1/4"	150	34,2	302	232	5,9



VX V 1100AS Drainage: clear water

Submersible pumps, Vortex system

Applications
Drainage of sewage and dirty water, operation in septic tanks and small purifying installations.
Drainage of rainwater.

Materials
Pump body in stainless steel.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.

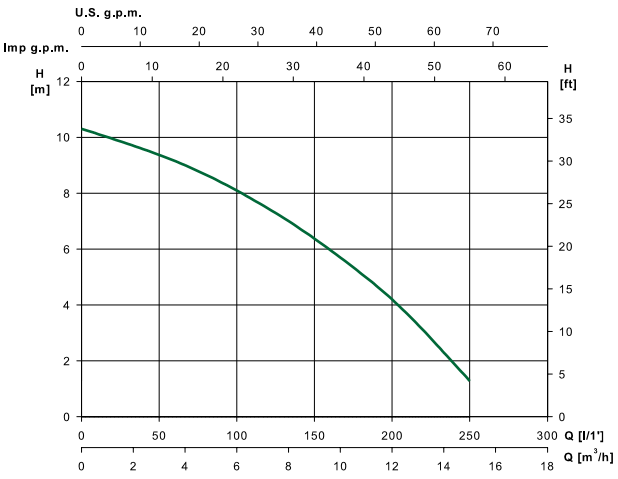
Limitations
Maximum solids handling: Ø 5 mm.
Maximum immersion: 7 m.
Maximum liquid temperature: 35° C.
Discontinuous operation.

Equipment
Supplied with 10 m power cable H05RN-F and plug.
With float switch.
Outlet plastic connector for different hose diameters.

Hydraulic performance table and prices

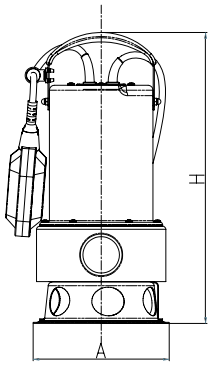
230V 50Hz	I [A]	P1 [W]	P2 [W]	c [µF]	Q max. (l/h)	H max. (m)	IP	Prof. max. immers. (m)	Max. solids handling (mm)	Max. temp. (°C)	1~230 V (Model M A)		
											Code	Price €	Discount cat.
VX V 1100 AS	3,7	1.100	660	8	16.500	10,5	68	7	35	35	201993	**155,00**	**E2**

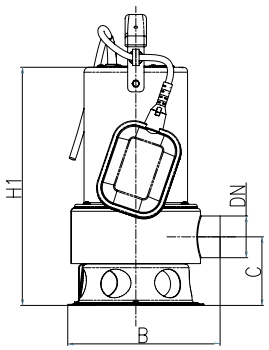
Performance curves at 2900 rpm



Dimensions and weights

Model	DN	A	B	C	H	H1	E	Kg
VX V 1100AS	1 1/2"	166,4	186,2	84	376,7	312,2	Regolabile	7,5





GARDEN

ACUA5 1200AS Submersible

Submersible pumps for irrigation

Applications
To work with clean water in domestic applications, irrigation, and pressure sets.

Materials
Pump body in stainless steel.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Motor cooled by pumped fluid.

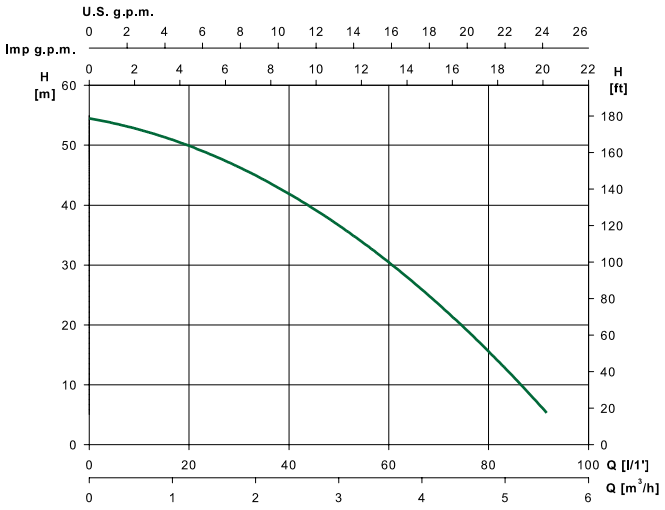
Limitations
Maximum solids handling: Ø 5 mm.
Maximum immersion: 7 m.
Maximum liquid temperature: 35° C.
Discontinuous operation.

Equipment
Supplied with 10 m power cable H05RN-F and plug.
With float switch.
Outlet plastic connector for different hose diameters.

Hydraulic performance table and prices

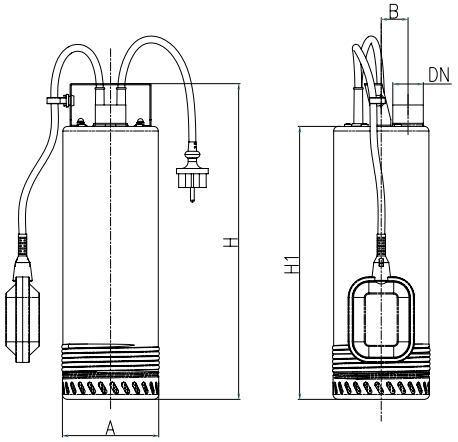
230V 50Hz	I [A]	P1 [W]	P2 [W]	c [µF]	Q max. (l/h)	H max. (m)	IP	Prof. max. immers. (m)	Max. solids handling (mm)	Max. temp. (°C)	1~230 V (Model M A)		
											Code	Price €	Discount cat.
ACUA5 1200AS	5,2	1.200	720	16	5.500	54	68	7	1,5	35	201994	**416,00**	**E4**

Performance curves at 2900 rpm



Dimensions and weights

Model	DN	A	B	H	H1	Kg
ACUA5 1200AS	1 1/4"	126	35	485	425	13



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PUMPS FOR SPECIAL USES, CONTROL BOARDS AND ACCESSORIES

Pumps for special uses

Self-priming electropumps with brass side channel

The best solution for the suction and decanting of fluids, thanks to its robust self-priming capacity, to its ability to operate without the continuous presence of incoming fluids and its reversible flow. The pump body's innovative watertight construction avoids the water coming into contact with the motor parts and impedes seepage. They truly are multifunction pumps, capable of solving a multitude of pumping problems, in domestic, agricultural and industrial environments.

- Brass pump body and impeller CB754S.
- Stainless steel AISI 304 counter flange.
- Pump shaft in AISI 316 stainless steel.
- Accompanying straight hose connector and a curved brass hose connector.
- Seal on the shaft and the ring in NBR with stainless steel spring, NBR washer.
- Asynchronous single phase 220 volt/50Hz motor with invertor and cable, IP 44 grade protection from overloading by the user.

12 and 24V versions also available on request.

Hydraulic performance table and prices

Model	Hp	RPM	Opening diameter	Head mwc	1	5	10	15	20	Code	Price €	Discount cat.
DOIL 20	0,5	2800	3/4"	l/min	28	22	15	9	3	DOIL20	**189,00**	**E1**
DOIL 25	0,6	1400	1"		47	32	13			DOIL25	**276,00**	**E1**
DOIL 30	1	1400	1"1/2		86	67	42	13		DOIL30	**333,00**	**E1**
DOIL 40	1,2	1400	1"1/2		125	97	64	15		DOIL40	**370,00**	**E1**

12 and 24 V pumps

UP500-UP2000

UP1

Hydraulic performance table and prices

Model	Volt	Max flow-rate (l/min)	Max. head (m)	Code	Price €	Discount cat.
UP1 12	12	35	8	UP1-12	**223,00**	**E1**
UP1 24	24	35	8	UP1-24	**223,00**	**E1**
UP500	12	32	3	UP500-12	**46,50**	**E1**
UP1000	12	63	4	UP1000-12	**73,50**	**E1**
UP1500 12	12	95	4	UP1500-12	**108,00**	**E1**
UP1500 24	24	95	4	UP1500-24	**116,00**	**E1**
UP2000 12	12	126	4	UP2000-12	**147,00**	**E1**
UP2000 24	24	126	4	UP2000-24	**156,00**	**E1**

12 and 24 V electropumps for transferring (model UP1) or by emptying (models UP500, UP1000, UP1500 and UP2000).

Condensate pumps

Pumps with tanks

Pumps for a multitude of uses: condensate removal produced by air conditioners, refrigeration units and for acidic condensate produced by condensing boilers.
Pumps with tanks are available either with piston technology (kitchen and compact) or with centrifuge motors (Maxi Tank), and depending on the model, are equipped with collection tanks from 0.25 to 1.7 litres.

Piston pumps ensure a higher prevalence and smaller size.
Centrifuge pumps remove condensate using an impeller housed in a curved chamber and can move consistent quantities of water but with a minor prevalence compared to piston pumps.

KITCHEN

COMPACT

MAXI TANK

Hydraulic performance table and prices

Model	Tank capacity (litri)	Q max (l/h)	H max (m)	Pump technology	Applications	Code	Price €	Discount cat.
Kitchen	0,5	12	10	Piston		FP2943	**152,00**	**E1**
Compact	0,25	35	15	Piston		FP2947	**152,00**	**E1**
Maxi Tank	1,7	300	5	Centrifuge		MT2018	**113,00**	**E1**

Mini piston pump

Mini pumps use a small piston which oscillates 50 (or 60) times a second and two non-return valves (one before and the other after the piston) to relaunch water condensate produced by high prevalence split air conditioning systems.
Piston pumps are small, silent and offer various installation solutions.

MINI CUBE

MINI PAD

MINI DRAIN

Hydraulic performance table and prices

Model	Description	Asp. Max (m)	Q max (l/h)	H max (m)	Max. Power air conditioning	Applications	Code	Price €	Discount cat.
Mini Pad	Mini pump with separate tank sensor	1	10	8	13 kW /45.500 Btu/h		MP2015	**105,00**	**E1**
Mini Cube	Mini monoblock pump with integrated sensor	-	10	8	13 kW /45.500 Btu/h		MC2017	**92,50**	**E1**
Mini Drain	Mini pump with separate tank sensor	2	14	10	13 kW /45.500 Btu/h		NT10000	**102,00**	**E1**

= CONDITIONING = REFRIGERATION = HEATING

Acid Neutraliser

Condensing boilers produce acidic water which can be harmful to the environment.
The ACID NEUTRALISER SMALL cartridge allows this acid to be neutralised, raising the pH making the water once again safe. As a result of its reduced size (Ø 55mm), it can also be easily housed in more restricted spaces.
It is equipped with two compression fittings, situated at each end (Ø internal 20mm) which ensure a watertight seal and easy replacement. It is supplied with a reminder sticker for the maintenance technician or the end user so that the cartridge can be easily replaced 12 months on from its first use. Suitable for use with condensing boilers no greater than 70 kW to ensure that it lasts for one year. It can be used with a gravity drain or in conjunction with all pumps with a tank.

Hydraulic performance table and prices

Model accessorio	Packaging	Max flow-rate (l/h)	Pressione max (bar)	DN inlet/outlet	Code	Price €	Discount cat.
ACID NEUTRALISER SMALL	1 pz	2	3	20 mm	MAN2018SR	**50,00**	**E1**
RICARICA ACID NEUTRALISER SMALL	-	-	-	-	MAN2018SR-C	**22,00**	**E1**

Tubes and discharge joints

Transparent crystal PVC tube for evacuation of condensate water, suitable in all fields of application. Available with internal diameter of 6mm (AX5200 - ideal for mini pumps and peristaltic pumps) and 10mm (AX5201 - ideal for centrifuge pumps).

Hydraulic performance table and prices

Model	Packaging	Code	Price €	Discount cat.
PVC 6x10	Rotolo 30 mt	AX5200	**23,50**	**E1**
PVC 10x14	Rotolo 30 mt	AX5201	**34,00**	**E1**

Two different types of connectors for connecting the condensate water discharge pipe to the downpipe. Available in either a metal version with expansion coupling to guarantee a maximum seal, or a cheaper alternative in plastic material. Each provide a Staggered intake joint for commonly used transparent PVC pipes (6/10mm).

Hydraulic performance table and prices

Model	Packaging	Code	Price €	Discount cat.
Giunto di scarico a tenuta	3 pz	FP2038	**45,00**	**E1**
Giunto di scarico semplice	3 pz	FP2040	**14,40**	**E1**

Control Panel

Control panel for submersible or surface pumps

General Features

Power supply
Single phase 50/60 Hz 230/240 V +- 10%
Three phase 50/60 Hz 400/415 V +- 10%

General disconnecting switch with safety door lock.
Thermoplastic housing, IP55 grade protection.
Electronic ammeter protection configurable with assisted adjustment.
Electronically monitored of minimum current for dry running with assisted adjustment.
AUTOMATIC periodic impeller release (runs 2s every 48h).
Automatic reset in the event of low current trip.
AUTOMATIC EXCHANGE SYSTEM in the event of an anomaly to the main pump. (QSMART2).
SYSTEM ACTIVATION DELAY AFTER NETWORK RETURN CONFIGURABLE FROM 0 to 15 seconds.
Auxiliary and motor protection fuses.
Set up for run capacitors in the single-phase version (not included).
4 very low voltage inputs. for float or pressure switch: 1 for shut down;
2 for controlling electropumps, 1 for alarm activation 3 inputs for unipolar level sensors (COM-MIN-MAX), 2 inputs for (Klixon) motor thermostat (1 for QMART1), 1 general alarm output dry contacts (COM-NO-NC resistive load - 5A / 250V), 1 live general alarm (12Vcc / 100mA).
AUTOMATICO-0-MANUALE buttons (unstable)

Functions configurable by DIP-SWITCH selectors:
- enabling alarm level from probes,
- thermal delay tripping 5/10 seconds,
- Configuring of alarm outputs,
- enable alarm reset from motor sensor (if present)
- filling/ emptying mode,
- enable float start/stop function,
- enable delayed electronic board activation on mains power return,
- enable motor exchanger (QSMART2);

LED indicators:
- Power supply present/ missing or incorrect phase sequence;
- automatic mode enabled;
- motor active;
- level alarm
- motor overload/minimum current alarm;
- motor sensor overheating alarm (if available)

Hydraulic performance table and prices

Model	Tens. [V]	Nr. pumps	I [A]		Motor power kW		Kg	Dim. in mm	Code	Price €	Discount cat.
			min	max	Submersible	Surface					
QSMART2-M22	1-230	2		16	0,37	2,2	1,5	320x240x190	QSMART2M22E	**253,00**	**E1**
QSMART2-T75	3-400	2		15	0,55	7,5	2,5	320x240x190	QSMART2T75E	**373,00**	**E1**
QSMART2-T110	3-400	2		24	7,5	11	3	320x240x190	QSMART2T110E	**552,00**	**E1**
QSMART1-M22	3-400	1		16	0,37	2,2	1,5	320x240x190	QSMART1M22E	**211,00**	**E1**
QSMART1-T75	3-400	1		15	0,55	7,5	2,5	320x240x190	QSMART1T75E	**283,00**	**E1**
QSMART1-T110	3-400	1		24	7,5	11	3	320x240x190	QSMART1T110E	**320,00**	**E1**

Control Panel

Start-up panel for submerged pumps with cos phi monitoring.

Starter panel and monitoring for the dry running of submerged pumps, through reading the electrical parameter cos phi.
Extremely reliable inasmuch as this system ensures protection against dry running without the use of sensors, floats or any other equipment requiring additional maintenance.
The configuration of the parameters can be done either manually or automatically.
The panel is equipped with a display and keypad for viewing and manually configuring parameters.
It is also equipped with a digital input (pressure switch or other free contact) for starting the pump.
IP55 grade protection
Operating conditions: Ambient temperature –5/+40°C. Maximum relative humidity 50% with a maximum temperature of +40°C.

Main features

- Self-learning of parameters
- Compact size
- Automatic reset of the dry-running alarm at 10-20-40-80-120 minute intervals
- Motor overload protection with ammeter
- Phase loss protection (only available for three-phase motors)
- Surge protection

Hydraulic performance table and prices

Model	Voltage [V]	I [A]	Motor power kW	Kg	Dim. in mm	Code	Price €	Discount cat.
ESP-M20	1-230	20 max	0,37 - 2,2	1,2	175x175x73	ESP-M20	**297,00**	**E1**
ESP-T10	3-400	10 max	0,37 - 3	1,3	175x175x73	ESP-T10	**354,00**	**E1**
ESP-T20	3-400	20 max	4 - 7,5	1,8	240x190x90	ESP-T20	**434,00**	**E1**
ESP-T30	3-400	30 max	9,2 - 11	2,4	240x190x90	ESP-T30	**605,00**	**E1**

Wall-mounted inverter for submerged pumps

These inverter models have been suitably designed for the operation of electropumps with the aim of ensuring pressure is controlled by keeping it constant according to demand for water, by varying the revolutions of the motor and achieving an energy saving. The outgoing pressure is observed using a 4-20 mA output pressure transducer.
Operating conditions: Ambient temperature 0/+40°C. Maximum relative humidity 50% with a maximum temperature of +40°C;

Main features

- Power supply 12V / 24V / 230V;
- 1 input normally open for Alarm control from dry contacts;
- 1 input normally closed for Alarm control from dry contacts;
- Flashing red 12Vcc, 24Vac, 220Vac;
- 90dB audible alarm 12Vcc, 24Vac, 220Vac;
- Box - ABS, IP55;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% to 40 °C (non condensed).

Hydraulic performance table and prices

Model	Voltage [V]		I [A]	Motor power [kW]	Pressure [bar]	Kg	IP Protection	Comm. port	Dim. in mm	Code	Price €	Discount cat.
	Supply	Motor										
EMMP15	1-230	1-230	11	1,5	0 - 10	2,5	65	wireless a rich.	155x238x120	EMMP15	**723,00**	**E1**
ETTP15	3-400	3-400	4	1,5	0 - 10	2,8	65	wireless	155x238x120	ETTP15	**934,00**	**E1**
ETTP22	3-400	3-400	6	2,2	0 - 30	3	55	wireless	155x238x120	ETTP22	**1.154,00**	**E1**
ETTP40	3-400	3-400	10	4	0 - 50	10,5	55	wireless	210x200x300	ETTP40	**1.996,00**	**E1**
ETTP55	3-400	3-400	14	5,5	0 - 50	11	55	RS485	210x200x300	ETTP55	**2.160,00**	**E1**
ETTP75	3-400	3-400	18	7,5	0 - 50	12	55	RS485	210x200x300	ETTP75	**2.718,00**	**E1**
ETTP110	3-400	3-400	23	11	0 - 50	16	55	RS485 /wireless	210x215x380	ETTP110	**3.222,00**	**E1**
ETTP150	3-400	3-400	33	15	0 - 50	16	55	RS485 /wireless	210x215x380	ETTP150	**3.999,00**	**E1**

Acoustic/visual alarm panel

Main features

- Entering of self-learned parameters
- wall-mounted
- Protection against dry running
- Ammeter protection against electrical overload
- Pressure transducer included in the price
- possibility to communicate with other inverters via Bluetooth


QAL-LIV

Model	Power supply	Dim. in mm	Code	Price €	Discount cat.
QAL-LIV12	12 V	160x160x140	QAL-LIV12	**138,00**	**E1**
QAL-LIV24	24 V	160x160x140	QAL-LIV24	**138,00**	**E1**
QAL-LIV220	230 V	160x160x140	QAL-LIV230	**138,00**	**E1**

Submerged pump accessories

Junction kit, cables and capacitors

EC: Two component polyurethane resin junction kit for watertight connections between low and high-voltage electric cables.
Kit includes mould, polyurethane resin and vulcanizable adhesive tape.
KSP: junction kit with self-vulcanised and thermo-shrinkable sheath.

Capacitor with double wire output 450 Vac.

Cable junction kit		Code	Price €	Discount cat.
EC 04	Fino a 4 x 4	EC04	**25,50**	**E1**
EC 10	Fino a 4 x 10	EC10	**32,50**	**E1**
KSP01	Fino a 4 x 2,5	KSP01	**12,60**	**E1**
Manpower for assembly of junction kit		MONTAGGIOGIUNZIONI	**45,00**	**E1**
Cut wire to size		TAMIF	**7,50**	**E1**

Condensatori		Code	Price €	Discount cat.
CONDENS 20MF	20 µF	CONDENS20MF	**7,50**	**E1**
CONDENS 25MF	25 µF	CONDENS25MF	**8,70**	**E1**
CONDENS 35MF	35 µF	CONDENS35MF	**11,10**	**E1**
CONDENS 40MF	40 µF	CONDENS40MF	**12,30**	**E1**
CONDENS 60MF	60 µF	CONDENS60MF	**15,90**	**E1**
CONDENS 80MF	80 µF	CONDENS80MF	**25,00**	**E1**

H07RN-F quadrupole electrical cable submerged and submersible electropumps. Price per metre
Caution: Prices are indicative and subject to change, also according to the cost of copper.
On request, and upon payment of a surcharge, the cable can be supplied with WRAS or ACS approval making it suitable for use with drinking water.

Quadripolar electrical cable		Code	Price €	Discount cat.
CAVO 4G1,5	4 x 1,5	CAVO4G1,5	**3,90**	**E1**
CAVO 4G2,5	4 x 2,5	CAVO4G2,5	**5,40**	**E1**
CAVO 4G4	4 x 4	CAVO4G4	**8,10**	**E1**
CAVO 4G6	4 x 6	CAVO4G6	**11,10**	**E1**

Start-up panel for submerged pumps

Thermoplastic panel for the starting up of single phase submerged pumps.
CBA version for pumps with internal capacitors (Acuaria 07 and Acua 5) and CB for all other pumps which require an external capacitor. **The capacitor is not included in the supply.**

Characteristics

Manually reintegrating thermal protector, on/off breaker. Output with cable glands.
Capacitor not included, to be installed, depending on the pump.
Protection grade: IP55
Operating range: -20°C / +50°C Relative humidity: 50% at a temperature of 50°C.

Model	Thermal protector	I [A]	Code	Price €	Discount cat.
CB08 / CBA08	8 A	from 2.7 to 4.7	CB08 / CBA08	**37,50**	**E1**
CB12 / CBA12	12 A	from 4.8 to 6.0	CB12 / CBA12	**37,50**	**E1**
CB16 / CBA16	16 A	from 6.5 to 7.7	CB16 / CBA16	**37,50**	**E1**
CB20	20 A	from 7.8 to 11.0	CB20	**37,50**	**E1**

Male/female check valves for submerged pumps

AISI 304 stainless steel check valves with male/female connections, ideal for mounting on the head of the Acua, Acuaria, Neptun and ES4 submerged pumps. Protection against water hammer and extremely low drops in pressure.

Check valves		Code	Price €	Discount cat.
900051C01	1" M x 1 1/4"F	900051C01	**22,50**	**E1**
900017MF	1" M x 1"F	900017MF	**34,50**	**E1**
900022MF	1 1/4" M x 1 1/4"F	900022MF	**45,50**	**E1**
900027MF	1 1/2" M x 1 1/2"F	900027MF	**55,50**	**E1**
900030MF	2" M x 2"F	900030MF	**102,00**	**E1**

Accessories

Pressure switches

Model	Adjustment range	Factory calibration	Code	Price €	Discount cat.
Mondeo 4 bar	1,4-4,6 bar	1,4-2,8	600100	**10,20**	**E1**
Mondeo 7 bar	3,0-7,0 bar	5,4-7,0	600101	**13,50**	**E1**
Mondeo 10 bar	6,0-10,5 bar	8,0-10,5	600102	**15,90**	**E1**
Square-D FSG-2	1,4-4,6 bar	1,4-2,8	600100SD	**20,50**	**E3**
Square-D FYG-22	2,8-7,0 bar	5,4-7,0	600102SD	**30,00**	**E1**
Square-D FYG-32	5,6-10,5 bar	8,0-10,5	600101SD	**37,00**	**E1**

Stainless steel hydraulic accumulators

Description	Code	Price €	Discount cat.
24 l Membrane	600004N	**168,00**	**E1**
24 l Power supply	600009	**195,00**	**E1**

Membrane accumulators

Model	Code	Price €	Discount cat.
IDROSFERA LT.24	IDROSFERA LT.24	**37,00**	**E1**
IDROSFERA-LT8MF	IDROSFERA-LT8MF	**51,00**	**E1**

Air supply

Description	Tank capacity	Attachments	P. max	Code	Price €	Discount cat.
Model Nick	Up to 750 lt.	1/2" M	8 bar	AMIS JET NIK	**43,00**	**E3**
Model Leon	from 1000 to 2000 lt.	1/2" M	8 bar	AMIS JET LEON	**51,00**	**E3**
Hose L=1000 mm*		1/2" F - 3/8" M	10 bar	TFA1000	**7,20**	**E1**
Hose L=1500 mm*		1/2" F - 3/8" M	10 bar	TFA1500	**9,60**	**E1**

* Attachments in nickel-plated brass, rubber tubing, braided nylon.

H05RNF Neoprene float

Supplied with counterweight

Description	Code	Price €	Discount cat.
Gall. El. Fox cavo 5 m h07rnf + counterweight	TPGFOH3G105NNC1	**26,70**	**E1**
Gall. El. Fox cavo 10m h07rnf + counterweight	TPGFOH3G110NNC1	**42,90**	**E1**
Gall. El. Fox 5 mt h05rnf + counterweight	TPGFO53X105NNC1	**20,70**	**E1**
Gall. El. Fox 10mt h05rnf + counterweight	TPGFO53X110NNC1	**31,20**	**E1**

Floats for sewage

Supplied without counterweight

Description	Code	Price €	Discount cat.
Taurus 10 meter Neoprene floating cable H05	TPGTA53X110GG01	**66,50**	**E1**
Taurus 20 meter Neoprene floating cable. H05	TPGTA53X120GG01	**96,00**	**E1**
Taurus 10 meter Neoprene floating cable	TPGTAH3X110GG01	**82,00**	**E1**
Taurus 20 meter Neoprene floating cable	TPGTAH3X120GG01	**128,00**	**E1**

Pressure gauge Ø 50. Radial attachment

Description	Code	Price €	Discount cat.
Pressure gauge diameter .50 6 Bar radial	600200	5,10	E1
Pressure gauge diameter .50 10 Bar radial	600201	5,10	E1
Pressure gauge diameter .50 0-16 Bar radial attachment	600202	5,10	E1

Pressure gauge diameter .50 0-16 Bar radial attachment

Description	Code	Price €	Discount cat.
Pressure gauge diameter .50 6 Bar rear attachment	600250	5,10	E1
Pressure gauge diameter .50 10 Bar rear attachment	600251	5,10	E1
Pressure gauge diameter .50 0-16 Bar rear attachment	600252	5,10	E1

5-way connections

Description	Version	Altezza	Materiale	Code	Price €	Discount cat.
5-way connector brass	Short	80	Brass	5MO201	9,60	E1
5-way connector brass	Long	90	Brass	5MO202	10,80	E1

Ball check valves

Diameter	Material	Code	Price €	Discount cat.
1"1/2	Cast iron	6VRFL010	109,00	E1
2"	Cast iron	6VRFL020	130,00	E1
2"1/2	Cast iron	6VRFL030	214,00	E1
1"1/2	Inox AISI 316	900220	217,00	E1
2"	Inox AISI 316	900230	238,00	E1

Brass check valves

Measurement	DN	Weight (gr)	Code	Price €	Discount cat.
1/2"	Ø15	110	931204	6,30	E1
3/4"	Ø20	180	931205	9,30	E1
1"	Ø25	270	931206	13,50	E1
1 1/4"	Ø32	400	931207	19,20	E1
1 1/2"	Ø40	570	931208	27,00	E1
2"	Ø50	880	931209	41,00	E1

Measurement	DN	Weight (gr)	Code	Price €	Discount cat.
1/2"	Ø15	110	900116	22,00	E1
3/4"	Ø20	180	900012	27,00	E1
1"	Ø25	270	900017	32,00	E1
1 1/4"	Ø32	400	900022	42,00	E1
1 1/2"	Ø40	570	900027	52,00	E1
2"	Ø50	880	900030	95,50	E1

Pipe union for circulator pumps

Description	Materiale	Code	Price €	Discount cat.
KIT BOCCH. DN15 1" X 1/2"	Brass	RC008	6,60	C1
KIT BOCCH. DN25 1"1/2 X 3/4"	Brass	RC012	10,20	C1
KIT BOCCH. DN20 1"1/4 X 3/4"	Brass	RC016	10,20	C1
KIT BOCCH. DN25 1"1/2 X 1"F	Brass	RC013	12,30	C1
KIT BOCCH. DN32 2" X 1"1/4"	Brass	RC015	18,00	C1
KIT BOCCH. DN20 1"1/4 X 3/4"	Cast iron	RC013G	7,20	C1
KIT BOCCH. DN25 1"1/2 X 1"F	Cast iron	RC015G	7,20	C1
KIT BOCCH. DN32 2" X 1"1/4"	Cast iron	RC016G	7,20	C1

Flange

Description	Code	Price €	Discount cat.
Blind MOTOR flange for NMTD LAN 50, 65, 80	ACV0005N	53,50	E1
Blind MOTOR flange for NMTD LAN 40	ACV0006N	36,00	E1
Blind MOTOR flange for NMTD MAX 40	ACV0007N	36,00	E1
Blind MOTOR flange for NMTD MAX 50	ACV0008N	53,50	E1

Communication module

Description	Code	Price €	Discount cat.
2 x communication modules connected by NMTD Smart and MAX	ACE0006N	459,00	E1
NMTC communication module for Smart and MAX series	ACE0007N	228,00	E1

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TECHNICAL INFORMATION

Definitions

Flow
The quantity of liquid at the output of a pump on a time basis.
It is generally expressed in m³/h.

Total Manometric Head
The THM is the total pressure that the pump must supply. It is generally expressed in meter water column (mwc).

Friction Losses
Any liquid flowing through a pipe generates friction losses they are function of: flow, the cross section of the pipe used and the number of accessories used by the liquid.

Abreviations

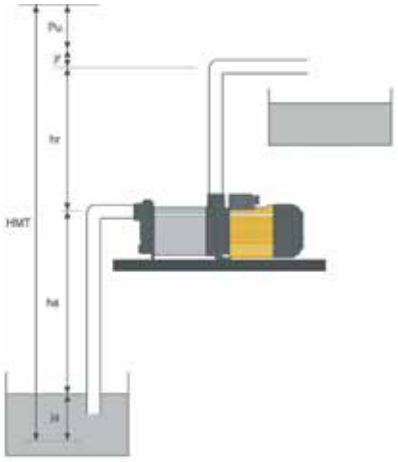
ha Inlet pressure. Vertical distance between the axis of the pump and the minimum level of liquid to pump. **ha** is positive if the level of the pumped liquid is above the axis of the pump, and is negative when the level is below.
La Total length of the suction pipe.
hr Head requirement. Vertical length between the axis of the pump and the highest point of distribution.
Lr Total length of discharge piping.
Jr Outlet losses.
Pu Utilised pressure. Pressure required for process (e.g. at sprinkler or shower head).

Calculation of the HMT

Inlet Manometric Height: **HMA = ha + Ja**
Outlet Manometric Height: **HMR = hr + Jr**
Total Manometric Head: **HMT = HMA + HMR + Pu**

Example

Requested Characteristic: Flow: 2 m³/h
Utilised Pressure: 2 bars = 20.2 mCE
Installation Parameters:
Inlet: ha = 4 m, La = 7 m, 1 x Foot valve
1 x 90 degree elbow
Outlet: hr = 6 m
Lr = 60 m
1 x Check valve
1 x Valve
1 x 90 degree threaded elbow
Pump Selection:
Recommended dimension of the pipe (Table 1):
DN 32 Equivalent length of the pipe (Table 2):
7 + 5 + 1.3 + 60 + 7 + 0.3 + 1.3 = 81.9 m.
Pipe losses (Table 3):
81.9 x 2 / 100 = 1.6 mwc.
Total manometric head:
HMT = 4 + 6 + 1.6 + 20.2 = 31.8 m CE.
This installation requires a pump with a 2 m³/h flow at 32 mwc:
The **Tecno 15 4** is the most suitable pump for this application.



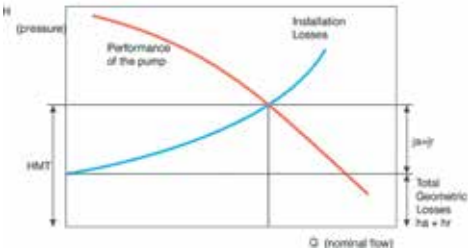


Table 1 Pipe dimension in function of the flow

DN	20	25	32	40	50	65	80	100	125	150
Ø PVC	25	32	40	50	63	75	90	110	140	160
Inches	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
Thread	20/27	26/34	33/42	40/49	50/60	66/76	80/90	102/114	127/140	152/165
Maximum suction flow [m³/h]	0.7	1.4	2.7	4.2	7.3	13.5	21	36	60	91
Maximum nominal flow [m³/h]	0.8	1.4	3	4.5	8	16	25	46	80	130

Table 2 Equivalent pipe length (in m)

DN	25	32	40	50	65	80	100	125	150
90° Threaded elbow	1	1.3	1.6	2	2.6	3.2	4	5	6
90° Flanged elbow	0.4	0.5	0.6	0.7	0.9	1	1.5	1.8	2
Flow straightener	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.4
Non return valve	6	7	8	10	10	10	12	15	18
Foot valve	4	5	7	9	11	15	20	26	34

Table 3 Losses in metres for 100m of horizontal straight pipe

Flow		Nominal diameter of pipe [mm]									
[m³/h]	l/min	20	25	32	40	50	65	80	100	125	150
0.2	3	0.3									
0.5	8	2.0	0.5	0.1							
0.7	12	4.0	1.0	0.2							
1.0	17	8.0	2.1	0.5	0.2						
1.5	25	17.0	5.0	1.0	0.5	0.1					
2.0	33	33.0	9.0	2.0	0.9	0.3					
3.0	50		21.0	4.5	2.2	0.6	0.2				
4.0	67		32.0	7.6	3.5	1.0	0.5	0.1			
5.0	83			13.0	6.0	1.8	0.7	0.2			
6.0	100			17.0	8.0	2.5	1.0	0.3			
7.0	117			25.0	12.0	3.5	1.3	0.3			
8.0	133			33.0	14.0	4.5	1.7	0.5	0.1		
9.0	150				19.0	5.7	2.1	0.6	0.2		
10.0	167				23.0	7.0	2.5	0.7	0.2		
12.0	200				33.0	10.0	3.5	1.0	0.3	0.1	
15.0	250					15.0	5.3	1.6	0.5	0.2	
20.0	333					26.0	8.8	2.8	0.8	0.3	0.1
25.0	417					40.0	13.8	4.4	1.3	0.4	0.2
30.0	500						18.8	6.3	1.9	0.6	0.2
40.0	667						32.5	11.2	3.3	1.1	0.4
50.0	833							17.5	5.2	1.7	0.7
60.0	1000							25.0	7.6	2.4	1.0
70.0	1.167							34.0	10.2	3.3	1.3
80.0	1.333								13.4	4.3	1.7
100.0	1.667								21.0	6.8	2.6
150.0	2.500									15.3	5.8
200.0	3.333									27.0	10.4

For pipes in plastics, multiply these values by the following 0.8 factor

Table 4 Reduction of a pump capacity

Deration due to altitude		Deration due to pumped liquid	
Altitude [m]	Head loss [mwc]	Temperature [°C]	Head loss [mwc]
0		20	0.20
500	0.6	30	0.40
1.000	1.15	40	0.70
1.500	1.70	50	1.20
2.000	2.20	60	1.90
2.500	2.65	70	3.10
3.000	3.20	80	4.70
3.500	3.60	90	7.10
		100	10.33

Maximum level of immersion for submersible monobloc pumps

Model		IMM. Max* [m]	IMM. Max** [m]
Acuaria 07N 3	6	36	50
Acuaria 07N 4	6	30	47
Acuaria 07N 5	12	80	102
Acuaria 07N 6	12	73	100
Acuaria 07N 7	12	66	96
Acuaria 17 5	12	70	50
Acuaria 17 6	12	50	25
Acuaria 27 4	12	85	70
Acuaria 27 6	12	67	45
Acuaria 37 4	10	60	42
Acuaria 37 6	10	33	15
Acuaria 57 4	10	70	52

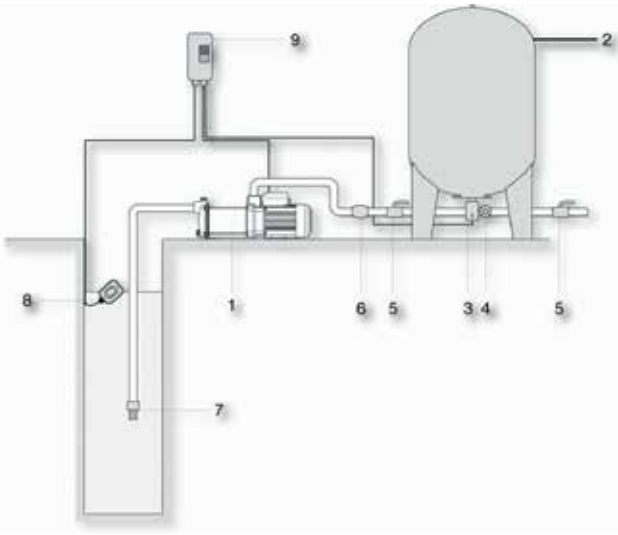
Maximum level of immersion: Working height + Immersion height ‹ maximum pressure.
* Maximum level of immersion at the maximum performance point in metres.
** Maximum level of immersion at the most unfavourable point in metres.

Maximum submersion depth for submerged monoblock pumps

Model	Press. max bar	IMM. max. * m	IMM. max. ** m
Acuaria 07 3	8	57	47
Acuaria 07 4	8	50	35
Acuaria 07 5	8	44	27
Acuaria 07 6	8	35	15
Acuaria 17 5	12	70	50
Acuaria 17 7	12	50	25
Acuaria 27 4	12	85	70
Acuaria 27 6	12	67	45
Acuaria 37 4	10	60	42
Acuaria 37 6	10	33	15
Acuaria 57 4	10	70	52
Neptun fl60 35	15	120	110
Neptun fl60 45	15	110	90
Neptun fl60 65	15	95	60
Neptun fl60 75	15	70	30
Neptun fl100 60	15	105	88
Neptun fl100 90	15	85	55
Neptun fl 120 50	15	120	105
Neptun fl 120 60	15	105	88

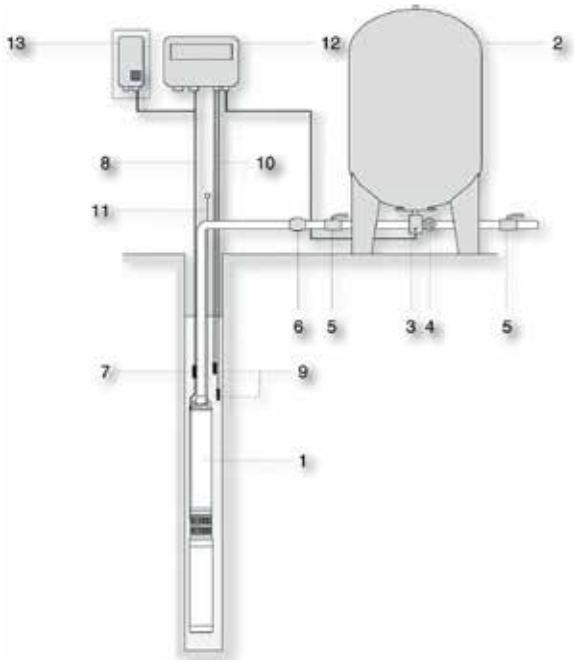
* Maximum immersion of the pump's maximum point of efficiency in metres.
** Maximum immersion in the least favourable point of the bend in metres.
Maximum immersion = Working height + Height of immersion ‹ maximum pressure
The maximum immersion depth is 15 metres for all versions with floats.

Typical applications



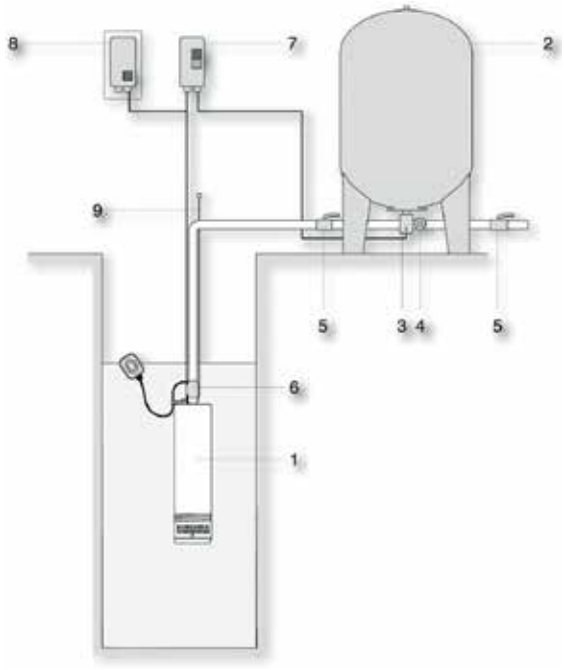
Self priming application

1 Pump.
2 Pressure vessel.
3 Pressure switch.
4 Pressure gauge.
5 Isolation valve.
6 Non return valve.
7 Non return valve and strainer.
8 Floating level switch.
9 Capacitor box.



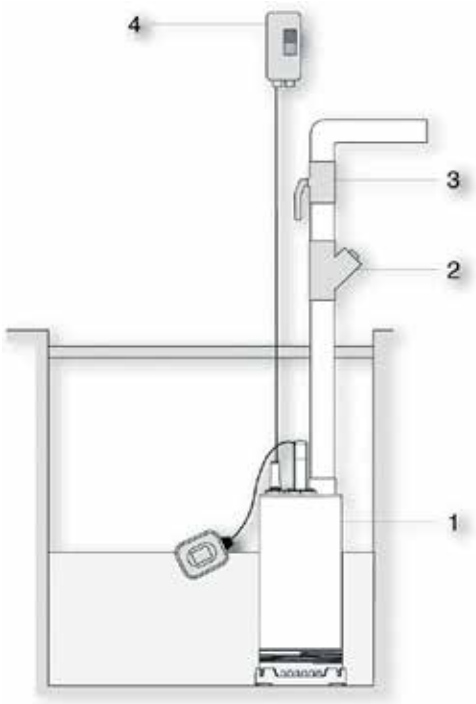
Borehole application

1 Pump.
2 Pressure vessel.
3 Pressure switch.
4 Manometer.
5 Isolation valve.
6 Non return valve.
7 Water tight cable joint.
8 Power supply cable.
9 Level probes.
10 Level probe cable.
11 Suspension cable.
12 Dry run protection control panel
Model: COMPACT 13.
13 Capacitor box.



Open well application

1 Pump.
2 Pressure vessel.
3 Pressure switch.
4 Pressure gauge.
5 Isolation valve.
6 Non return valve.
7 Starter.
8 Capacitor box.
9 Suspension cable.



Sump application

1 Pump.
2 Non return valve.
3 Isolation valve.
4 Capacitor box.

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Innovative Solutions

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Since 1962

CONDITIONS OF SUPPLY

Conditions of sale

Products sold by the company Espa Italia S.r.l (hereinafter "Company"), are sold to an subject (henceforth referred to as the "Customer") according to the following general conditions of sale and which are understood to form an integral part of any contract made with the Company.

GENERAL PROVISIONS

Time limits

The order is understood to have been accepted by the Company's commercial management upon confirmation of the order and in the absence of any notice and/or correction from the Customer received by the Company prior to acceptance.

The delivery terms are always indicative and are essential in nature only if it has been expressly instructed in writing at the time the order is confirmed.

Any delays in shipping do not give the Customer the right to compensation and/or damages, they only legitimise withdrawal from the contract with any sums paid in advance to be repaid following prior notice to comply within a time not less than thirty days.

Advance deposit and fulfilment of the contract

To ensure the projected commitments, the Company may require the Client to pay a specified sum at the time of the order itself, or a lesser sum established under different agreements

Upon acceptance of the order by the Company, the amount should be considered as an advance deposit pursuant to and for the effects of Articles 1356 of the Civil Code at the time of fulfilment by the Customer, the amount paid as an advance deposit will be attributed to the payment price.

The payment of the agreed price should be made according to the established agreement, at the registered office of the Company or elsewhere to a person authorised by the Company itself if expressly specified in writing.

In any case, the balance will only be considered to have been made upon proof of a successful outcome of the payment itself.

Credit will only be provided where a request from the Customer has been evaluated and approved by our commercial department and by the administrative and finance department.

The supply of values less than 250.00 EUROs will be made only after advance payment or on delivery.

Transport

Materials are always shipped "ex-works" and are therefore considered in name and on behalf of and at the risk of the Customer, even in the event that the courier has been selected by the seller.

Any damage must be disputed with the courier and recorded on the delivery note, and to the Company via recommended post within 8 days of the receipt of the goods.

Shipping is, with the exception of specific agreements, always by truck. water cranes, tail-lift or any other accessory suitable for unloading material, remain the Customers responsibility.

Late payment

Payments must comply with the terms agreed at the time the order is confirmed. In the event of a late payment the Customer shall pay, after the expiry of the deadline, default interest as established by Legislative Decree 09.10.2002, no. 231.

Non-payment

In the event of non-payment, the Company is free to suspend, in whole or in part, the delivery of the goods. Even if in reference to an accepted, confirmed and counter-confirmed order.

Goods in stock

In the event that the Customer, when advised of the goods availability, fails to withdraw from the order, ESPA Italy may issue the invoice relating to the goods and ship them to the Customer's address.

Returns

The return of goods must be explicitly authorised by the Company.

Requests for returns must be received within a maximum of five days from the receipt of the goods, which must be in good condition and in their original packing.

Returns are not accepted under any circumstances for goods for particular purposes which have been specially made for the Customer.

The complete general conditions for the return and guarantee of our products are available on request from our registered office.

Retention of title

For sales paid by instalment or with deferred deadlines, the goods remain the property of the Company until the goods have been fully paid for, pursuant to and for the effects of the standards established in Articles 1523 and following of the Civil Code.

Warranties

All products are covered by a statutory warranty according to current regulations.

All products are tested prior to shipping, therefore the Company guarantees its products according to the certificates of compliance and the instruction and maintenance manuals attached to the products themselves.

The warranty includes to the replacement or repair of faulty parts resulting from manufacturing defects.

Materials to be subjected to evaluation subject of the warranty should be accompanied by a document showing the product's serial number, the date of sale including proof of purchase (receipt, shipping document, sales invoice) as well as the reasons for activating the warranty.

In the event that this documentation is not available, the warranty period will be calculated from the manufacturing date, which can be obtained from the registration number or in its absence, from the number stamped on the product's components.

In the event that the warranty is not recognised, ESPA ITALY reserves the right to charge for all shipping costs, returns handling and product checking and testing.

New ESPA Pool pump range warranty

The extended warranty is exclusively for the ESPA Pool pump range and its application is specified in the following conditions:

1. The geographic scope of the extended warranty is strictly limited to the countries of the EC.

2. Standard period of two years warranty from invoice date according to the general terms of ESPA guarantee.

3. Extended warranty for an additional period of two years by purchasing the product in one of the ESPA's evopool® partner accredited distributors.

4. Extended warranty for an extra year if the end-user registers the product at the site filling, at least, all mandatory fields. The limit period for product registration will be a maximum of six months from the invoice date.

In any case, the maximum warranty period is five years from the product invoice date.

The terms of the warranty extension are the same as for the standard warranty, excluding all components of pump wear during normal use, such as:
- Mechanical seal
- Gaskets
- Capacitor
- Bearings
- Pre-filter basket

Warranty disclaimer

The following are not covered by the warranty: when any breakage results from neglect, failure to follow the instructions or the incorrect use of the product, The misuse or tampering with the product, accidental damage due to transport, lack of maintenance of the product or any of its components.

Any complaints or disputes do not in any way provide the Customer with the right to not make or postpone payments.

Repairs

For out of warranty products, a technical comment will be issued stating the cost of repair. If no response is received from the Client within 3 months, we will return the unrepaired item and charge for all associated fees: transport, checking and storage.

All balances for assistance and repair services must be settled at the time they are carried out.

Failure to collect any repaired goods after the maximum deadline of thirty days will be increased by an extra 5% on the value of the repair per month, as storage costs.

Processing of data

Pursuant to existing legislation regarding the protection of personal data, the Company, in the role of Data Controller, advises that any data relating to its Clients will be processed according to the provisions of Legislative Decree 196/2003, as well as by separately signed information sent to Customers relating to "Consent of the Data Subject to the processing and communication of personal data pursuant to Articles 23 and 25 of Legislative Decree 196/03".

VAT and pricing

The prices contained in the price list are to always be understood as the net price, excluding VAT, and in any case indicative insofar as they are subject to change, as the only binding price is explicitly set out by the Company in an accepted commission or in dispatched order confirmations.

Jurisdiction

Any dispute will be under the jurisdiction of the Court of VICENZA.

Transport conditions

General rules regarding transport costs for Italy

€17.50 to be charged for orders taxable up to €500

3.5% of the taxable amount for orders from €500 to €3000

1% of the taxable amount for orders over €3000

The Aquabox item ships by itself by truck with a fixed cost of €30.00/each

Telephone notification service: +€5

signed: +€10

The following are excluded and priced on a case by case basis: tracking, overseas shipping, large items, to smaller islands or others.

Type of service used in Italy and shipping times (guidelines):

Up to 150Kg: Standard courier service (1-2 working days)

For urgent 24hr delivery, increase cost by 50%

Over 150 Kg: Standard haulage service (3-4 working days)

Urgent 1-2 days, increase cost by 50%

Espa Italy reserves the right to modify or vary the above depending on particular needs.

The stated shipping times are indicative and not exhaustive and depend on the destination and the services offered by couriers.

Regulatory note

ENVIRONMENTALLY FRIENDLY DESIGN OF HYDRAULIC PUMPS
EU Regulation No. 547/2012

In recent years, the European Commission has developed standards to determine the minimum levels of efficiency, obligatory for some product groups sold within the European Community, and known as 'European Minimum Energy Performance Standards' (EU MEPS). Beginning from 1 January 2013 these standards will be applied to clean water pumps. Given that 80% of a product's efficiency is determined during the design phase, this is the phase of the manufacturing process addressed by EU MEPS standards. Influencing the design of products sold in Europe is considered of the utmost importance: The definition of Eco-design arose from that.

Pumps were originally excluded from the Regulations, and were subsequently introduced after the energy efficiency of their use was recognised as one of the greatest areas of improvement in the commercial and domestic sectors. Products involved in the Eco-design Regulations are Centrifugel axial suction pumps with support/base or monoblock, in-line monoblock pumps, vertical multistage pumps and multistage pumps submerged in wells from 4" to 6".

To ensure that every change brought to the product design can guarantee maximum values of hydraulic efficiency, the European Commission has conducted a survey on the pumps currently available on the market to determine the actual efficiency levels and to therefore determine the new parameters to be observed.

The **MEI** index identifies an obligatory minimum level of hydraulic efficiency, excluding as a consequence those pumps which operate under the cited parameters.

In 2013, all pumps released on to the market in the European Union must satisfy the minimum hydraulic efficiency levels to reach and exceed the MEI index with a value of 0.1. This value corresponds to the percentage (10%) constituted by products currently on the market which do not comply with the European Commission's standards.

In 2015, the standards became even more restrictive, with an MEI index value brought up to 0.4, corresponding to the 40% of the pumps on the European market today which do not comply with the minimum efficiency levels.

All the electronic pumps in this catalogue that EU regulation 547/2012 is concerned with comply with the current MEI index.

The operation of the electropumps with variable working points can be made even more efficient through using equipment which regulates the rotation speed of the pump based on the requirements of the hydraulic system of which the pump is a part.

The yield curves and any other information necessary relating to our electropumps, such as the information necessary for their assembly, recycling or disposal of components at the end of the product's life cycle are available in the instruction manual or from ESPA's Italian (www.espapompe.it) or global (www.espa.com) websites.

Information relating to the reference criteria adopted to evaluate efficiency is available from the following link:

http://global.espa.com/doc-descarrega-1/fingerprints.pdf

Richiesta di reso

ESPA

RETURN REQUEST				Date
Customer information	Customer number	Company		
	Adress			
	Postcode	City		Region
	Tel.	Fax	e-mail	
	Contact		Stamped and signed	
	Tel.	Fax		
	e-mail			
Reason for return	**Return of new material**		**Return of used material**	
	◯ Order error ◯ Consignment does not comply with ◯ Consignment does not comply ◯ Damaged material		◯ Check and repair under warranty ◯ Replacement request under warranty ◯ Check and repair	
			HELP US UNDERSTAND WHAT IS WRONG WITH THE PRODUCT. DESCRIBE THE FAULT	
Product	**Description**		**Serial no.**	**Invoice number and/or shipping document** .....
Space reserved for our engineer	Decision ◯ Approved ◯ Rejected			Date and signature
	Remarks			
	Person in charge			
	Date received	Courier		Received by:
	Goods must be returned properly packaged and not tampered with.			
	Include a copy of this document in the package.			
	Send via fax to 0444 602644 or email to info@espapompe.it			

WARRANTY AND RETURN CONDITIONS

1) The warranty period is 2 years for the end user and 1 year for businesses beginning from the date of purchase as shown on the documentation (receipt or invoice).
2) In the event that the receipt or the invoice are not available, the warranty period will be calculated from the date of manufacture indicated by the registration number.
3) The warranty will be terminated in the event of improper use or if the instructions contained in the manual have been disregarded.
4) The warranty only covers manufacturing defects and not the costs connected to installation or assembly.
5) **Shipping is the responsibility of Espa Italy who reserve the right to recourse for costs** (€25.00 per pump) **in the event that the warranty** is not recognised by Espa Italy's technical service**; in the event of any fault, €20.00 will be charged for testing fees in addition to the transport costs.**
6) No credit note or return will be made before testing is carried out by Espa Italy's technical service and the product declared faulty.
The Company, Espa Italy, will not accept any return without prior acceptance and agreement with the technical service, nor without the transport documents.

All the technical data contained in this catalogue is supplied by our Test laboratory in accordance with ISO 9906: 2012 Grade B3 and correspond to tests with clean water at Ta = 20 ° C, density d = 1.0 kg / dm3 and Kinematic viscosity m = 20 mm2 / s. This guarantees the veracity and the precision of the data that is supplied. Therefore, enabling the safe selection of the correct pump for your application.

Non-binding pictures; the technical specifications and/or the equipment might change depending on the model. ESPA has the right to change the content of the present catalogue without any further notice, always with the intention to improve the information that is given to our clients.

ESPA
Innovative Solutions
Since 1962

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