

*smart* SWIMMING POOL PUMPS



THE  
REAL  
POWERHOUSE



**45 db  
SOUND LEVEL\***

**STEPLESS**

## UP TO 90% ENERGY SAVING AT LOWEST SPEED

### **HIGH EFFICIENCY**

Thanks to the new motor, hydraulic parts and electronic board, the pump is equipped with reliable components and designed for a long life span.

### **EXTREMELY QUIET**

The special motor cooled by pumped water, the inverter and the anti-vibration feet make the E-Pro to one of the leading swimming pool pumps on the market.

\*at best possible conditions and specific to the filter system

smart

# E.PRO swimming pool pump

## APPLICATION

E.Pro is one of the most quiet and energy efficient electronic swimming pool pumps with integrated high capacity strainer basket. E.Pro combines state-of-the-art hydraulic engineering parts, frequency converter technology and high-efficiency permanent magnet motor (with its innovative water-cooled motor). With these characteristics, the speed can be adjusted, which enables high energy efficiency.

Extremely quiet and very reliable, developed for water circulation and filtration in home and building swimming pools. Also suitable for specific applications eg. fish farms, agriculture or industry.

## CONSTRUCTION CHARACTERISTICS

Transparent, antioxidant cover of the filter for optimal insight. Fiberglass reinforced technopolymer hydraulics in order to have a completely isolated motor shaft from the pumped fluid. Carbon / Alumina / NBR / AISI316 mechanical seal, filling screws that can be removed and reassembled without tools.

E.Pro is provided with a synchronous permanent magnet motor controlled by a frequency converter. The engine is water cooled (no engine fan) and runs extremely quiet. Aluminum housing with special coating to avoid oxidation. Support foot with rubber feet to reduce vibration.

## TECHNICAL DATA

Smart swimming pool pump E.Pro 150 variable speed, self-priming female thread 2", 27m <sup>3</sup> /h at 15,4 m, 230 V, P1-1,25 kW, P2-1,1kW, integrated lage prefilter		Prod. No. 7300445
Sound level max db (A)	< 45 db	
Application	up to 30 m <sup>3</sup> /h with filtration height up to 15,4 m	
PH range	6,5-8,4	
Pump liquid temperature range	up to 40 °C	
Max. ambient temperature	50°C	
Max. operation pressure	2,5 bar	
Installation	fixed, horizontal position	
Connection	2"/50-63 (two connections +O-ring	
Standard of reference	IEC-60364	
Protection class on the motor and board	IP X5	
Isolation class	F	
Standard voltage	single-phase 230V-50/60Hz	
P1 max W	1250	
P2 rated output	11kW, 1,5PS	
In A	5,6	

## EXAMPLE WITH 3 CYCLES A DAY, 10 HOURS A DAY AND 200 DAY OF YEAR WORKING

Pool dimensions	Pump	Energy cost €/kW	cost savings 1 day	cost savings 1 year	cost savings 5 years
30m <sup>2</sup>	0,37kW	0,12	€0,17	€33,60	€168
		0,24	€0,34	€67,20	€336
45m <sup>2</sup>	0,55kW	0,12	€0,35	€69,60	€348
		0,24	€0,70	€139,20	€696
60m <sup>2</sup>	0,74kW	0,12	€0,52	€103,20	€516
		0,24	€1,03	€206,40	€1032
70m <sup>2</sup>	1,1kW	0,12	€0,66	€132	€660
		0,24	€1,32	€264	€1320



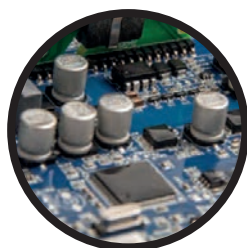
**UP TO 90% ENERGY SAFING**  
IN COMPARISON WITH TRADITIONAL PUMPS

## FEATURES



### INTEGRATED PREFILTER

Equipped with high capacity strainer basket, with easy to remove cover and simple to pull out and cleaning filter.



### VARIABLE SPEED

Thanks to frequency converter electronic board that allows to work with variable speed or flow to optimize performance and minimize power consumption.



### WATER COOLING

Motor cooled by the pump water, which allows the elimination of the fan having a more compact product that can be installed in small poorly ventilated spaces



### UNIQUE DESIGN

Technological solution that combines aesthetic elements with robust materials and high resistance to corrosion and oxidation.

**smart**

# EUROPRO swimming pool pump



saltwater resistant (4%)

## APPLICATIONS

High performance self-priming electric pump with built-in high capacity prefilter. Motor completely isolated from the water. Extremely quiet and highly reliable, developed for water circulation and filtration in domestic and residential swimming pools. Also suitable for specific applications requiring handling of aggressive liquids in the fishing, agricultural, and industrial sectors.

Carbon / alumina / NBR / AISI 316 mechanical seal. NBR pump body O-ring, AISI 316 stainless steel reinforcement ring nuts and screws. Butterfly filling and drain plugs that can be removed and refitted without tools.

## CONSTRUCTION FEATURES PUMP

Fibreglass reinforced technopolymer pump body. Transparent anti-oxidant polycarbonate prefilter cover ensuring constant visibility over the long period. Nylon strainer. Fibreglass reinforced technopolymer impeller designed to ensure total cover and insulation of the motor shaft from the pump liquid. Reinforced technopolymer diffuser.

## CONSTRUCTION FEATURES MOTOR

Continuous service 2-pole asynchronous motor (S1) with a wide power range, from 0,5 HP to 3 HP, both single and three phase (see technical specifications). Die cast aluminium motor casing with cataphoresis paint coating to avoid oxidation also in aggressive environments. Support base supplied with rubber feet to reduce vibrations. Single phase version with built-in thermal and current protection, and permanent split capacitor (PSC) inside the terminal box for all versions.

## ELECTRICAL DATA

Type EURO-PRO	Prod. No.	input power 50 Hz	P1 max W	P2 kW - PS	In A	Capacitor $\mu$ F - Vc	Sound level max db (A)
50 M	7300446	1x220-240V -	900	0,33 - 0,5	4,2	16 - 450	53
75 M	7300447	1x220-240V -	1000	0,5 - 0,75	5	20 - 450	56
75 T	7300452	3x230-400V -	950	0,5 - 0,75	3,5 / 2	/ - /	56
100 M	7300448	1x220-240V -	1300	0,75 - 1	6,3	25 - 450	57
100 T	7300453	3x230-400V -	1200	0,75 - 1	4 / 2,4	/ - /	57
150 M	7300449	1x220-240V -	1600	1,1 - 1,5	7	31,5 - 450	59
150 T	7300454	3x230-400V -	1500	1,1 - 1,5	5 / 2,9	/ - /	59
200 M	7300450	1x220-240V -	1900	1,5 - 2	8,6	40 - 450	62
200 T	7300455	3x230-400V -	1900	1,2 - 2	6 / 3,5	/ - /	62
300 M	7300451	1x220-240V -	2800	2,2 - 3	12	40 - 450	64
300 T	7300456	3x230-400V -	2800	2,2 - 3	8,7 / 5	/ - /	64

## HYDRAULIC DATA

Type EURO-PRO	0 0	3 50	6 100	9 150	12 200	18 300	21 350	24 400	30 500	36 600	42 700
50 M	12,0	11,7	11,2	10,5	9,3	5,3	-	-	-	-	-
75M / 75 T	13,8	13,5	13,1	12,4	11,1	7,5	5	-	-	-	-
100 M / 100 T	15,4	15,4	15	14,2	13,1	10,0	7,8	5,6	-	-	-
150 M	16,2	15,9	15,4	14,9	14,2	12,4	11,1	9,3	5,3	-	-
150 T	16,2	15,6	15,2	14,6	13,9	12,4	11,1	9,3	5,3	-	-
200 M / 200 T	18,6	18,2	17,7	17,1	16,5	15,0	14,1	12,8	9,0	4	-
300 M / 300 T	21,8	21,5	21,3	20,8	20,2	19,2	18,6	17,8	15,3	11,6	7,4

# smart SERIES M filter pump



## APPLICATION

Electrical self priming pump for pools with large pre-filter, which, together with its excellent hydraulic performance, gives a very large filtering capacity. A filter with transparent, polycarbonate lid that easily allows inspection of the interior of the pre-filter sieve. No possible electrical contact with the water as no part of the motor is open to it.

parent lid in polycarbonate. Support base in aluminium. Mechanical seal in carbon-ceramic and stainless steel AISI316. Bolts in AISI304. The pump allows two possible connections: Female thread 1½", Connection for PVC pipe d50 to glue

## MATERIAL

Pump body, lid and diffuser in polypropylene, resistant to the chemical products in the pools and reinforced with glass fibre, guaranteeing excellent duration. Shaft in stainless steel AISI316. Noryl impeller. Trans-

## MOTOR

Asynchronous motor, sealed from external ventilation. Protection IP55. 2,850 rpm, 50 Hz (on request 60 Hz). Class F insulation. Motor bearings greased for life and selected to ensure long duration and silent working.

Smart filter pump series M						
Prod. No.	230 V 400 V	77590 77590a	77591 77591a	77592 77592a	77594 77594a	77595 77595a
Pump		M25	M33	M50	M75	M100
P2 (kW)		0,16	0,25	0,37	0,55	0,70
P1 (kW)		0,29	0,38	0,57	0,88	1,06
Capacity m³/h at 8 m		6	8	10	12,5	15,3
Connection		1,5"	1,5"	1,5"	1,5"	1,5"
Gross weight kg		11,6	11,6	11,6	12,6	12,6

# smart SERIES W filter pump



## APPLICATION

Electrical self priming pump for pools with large pre-filter, which, together with its excellent hydraulic performance, gives a very large filtering capacity. A filter with transparent, polycarbonate lid that easily allows inspection of the interior of the pre-filter sieve. No possible electrical contact with the water as no part of the motor is open to it.

AISI316. Noryl impeller. Mechanical seal in carbon-ceramic, on request: silicon carbide/tungsten carbon / AISI316. Bolts in AISI304 stainless steel. Intake and outlet connection 2".

## MATERIAL

Pump body, lid, base and diffuser and opening key in polypropylene, resistant to the chemical products in the pools and reinforced with glass fibre, guaranteeing excellent duration. Shaft in stainless steel

## MOTOR

Asynchronous motor, sealed from external ventilation. Protection IP55. 2.850 rpm, 50 - 60Hz Class F insulation. Motor bearings greased for life and selected to ensure long duration and silent working.

Smart filter pump series W							
Prod. No.	230 V 400 V	77964 77964a	77957 77957a	77958 77958a	77959 77959a	77960 77960a	77961 77961a
Pump		W50	W75	W100	W150	W200	W300
P2 (kW)		0,37	0,55	0,75	1,1	1,5	2,2
P1 (kW)	230 V 400 V	0,57 0,56	0,8 0,77	1,06 1,03	1,51 1,49	2 2	2,78 2,75
Capacity m³/h at 10 m		11,1	13,5	18	21	24	29
Connection		2"	2"	2"	2"	2"	2"
Gross weight kg		12,6	13	14,6	17,6	20	22,6

# smart SERIES K filter pump



## APPLICATION

The pump is designed to move water at a rate sufficient for counter-current swimming, and can also be used in water parks, for fountains, cascades, etc. Features standard connection flanges which together with a broad base make the system extremely robust. Counter-flanges not supplied as standard. Turbine available in 2 versions, Noryl or marine bronze, as per request.

## MATERIAL

Pump body, volute, countervolute and cover made of glass fibre-loaded polypropylene resistant to pool chemicals. Mechanical seal in ceramic carbon and AISI-316 stainless steel (also for use with sea water) Screws and shaft stainless steel AISI-316

## MOTOR

Asynchronous motor with external ventilation. Protection grade IP-55. Class F insulation. Double frequency (50 and 60 Hz). Motor bearings greased for life to ensure long and silent operation.

## TECHNICAL DATA

Pump	P2 (kW)	P1 (kW)	DN	Net Kg.	Gross Kg.
K300	2,2	2,72	110	36	37,5
K400	3	3,63	110	37	39,5
K550	4	4,75	110	47	48,5
K750	5,5	6,42	110	59,5	61
K1000	7,5	8,62	110	69,5	71
K1250	9,2	10,45	110	78	79,5
K1500	11	12,44	110	79	80,5



## NO FILTRATION WITHOUT A PUMP

The swimming pool pump is the driver in a filter system, it brings the necessary „power“ for the filtration process. The right choice of the pump helps to assure an excellent water quality and to plan the system economically and energy-efficiently.

A self-priming pump allows, for example, the processing of air fractions in the water. It is always important that the pump is filled with water before starting operation.

In addition, during planning, consider the right, frostproof location, good ventilation and good accessibility for maintenance. Avoid unpleasant noises using antivibration feet.



More technical information in our new  
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# smart POWER filter pump



SELF-PRIMING

## APPLICATION

High-volume self-priming pump available in 2 and 4 poles versions ideal for larger filter systems. Features large suction-side pre-filter which together with excellent hydraulic performance ensures extremely high filtration capacity. Filter with polycarbonate cover for easy viewing of pre-filter basket content. Features standard connection flanges which together with broad base make the system extremely robust. Turbine available in 2 versions, Noryl or marine bronze, as per request.

AISI-316 stainless steel (also for use with sea water) Screws and shaft stainless steel AISI-316. Mechanical seal in ceramic carbon and AISI-316 stainless steel (also for use with sea water). Screws and shaft stainless steel AISI-316

## MATERIAL

Pre-filter, body, pump body, volute, countervolute and cover made of glass fibre-loaded polypropylene resistant to pool chemicals. Pre-filter basket in polyethylene. Polycarbonate pre-filter cover with four-pin closure system. Noryl impeller. Mechanical seal in ceramic carbon and

## MOTOR

Asynchronous motor with external ventilation. Protection grade IP-55. Class F insulation. Double frequency (50 and 60 Hz). Motor bearings greased for life to ensure long and silent operation.

Smart filter pump Power							
Prod. No.	74464	74465	74466	74467	74468	74469	74470
Pump	P300	P400	P550	P750	P1000	P1250	P1500
P2 (kW)	2,2	3	4	5,5	7,5	9,2	11
P1 (kW)	2,72	3,63	4,75	6,42	8,62	10,45	12,44
Net kg	40,5	42,5	51,4	64	74	82,5	83,5
Gross kg	42,5	44,5	53,4	66	76	84,5	85,5

## TABLE FOR CHOOSING SMART E.PRO & EUROPRO

for private pools

Dimensions swimming pool m	Pool size m <sup>2</sup>	Flow m <sup>3</sup> /h	Model	
8x4	35 to 50	9	E.Pro150	Europro 50
8x4 to 10x5	50 to 70	12	E.Pro150	Europro75
10x5 to 12x5	70 to 90	15	E.Pro150	Europro75 Europro100
11x6 to 12x6	90 to 110	18	E.Pro150	Euroswim 100

## EXAMPLE FOR THE CORRECT PUMP DIMENSIONS

Dimensions swimming pool:  
8 x 4 x 1,5m = 48m<sup>3</sup> water

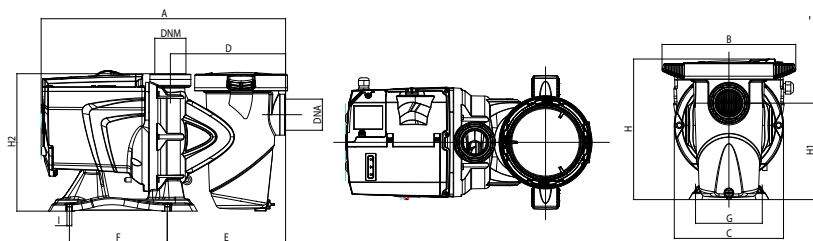
Circulation time at average load:  
approx. 5 hours.

means the average flow is:  
 $48\text{m}^3 / 4 = 12\text{ m}^3/\text{h}$

Now you still have to consider the required total lifting height for the system, that is the sum of friction losses (e.g. in all fittings), height differences, filter resistance, etc.

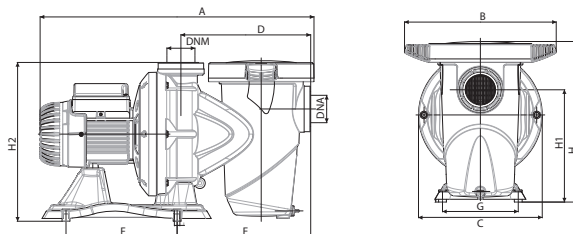
Using a diagram for the delivery height you choose the pump so that the pump characteristic line is located over the operating point of the pool site.

# DIMENSIONS



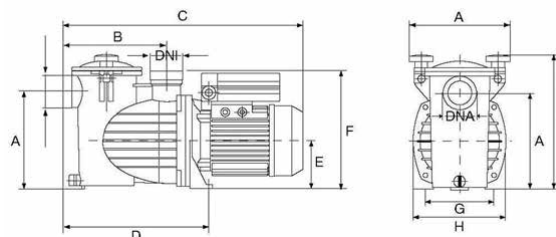
## E.PRO

Model	Prod. No.	A	B	C	D	E	F	G	H	H1	H2	I	DNA	DNM	PACKING			WEIGHT kg
															L/A	L/B	H	
E-PRO 150	7300445	550	242	245	259	266	220	150	351	217	309	11	2"	2"	720	350	430	19
E-PRO 300	7300905	574	304	290	269	276	220	150	354	252	344	11	2"	2"	720	350	430	21,3



## EUROPRO

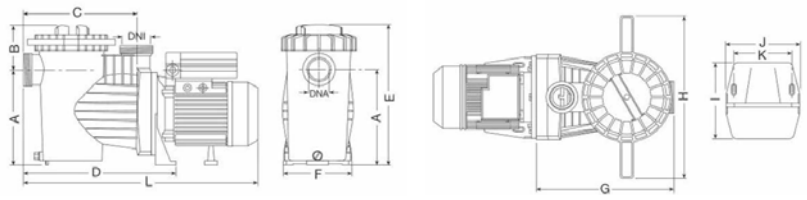
TPYE euro-pro	A	B	C	D	E	F	G	H	H1	H2	I	L	DNA	DNM	UNIT/ PALETTE	PACKING			Volume m³	Gross kg
																L/A	L/B	H		
50 M	536	242	245	257	265	220	150	351	222	314	11	6,5	G2"	G2"	8	600	360	400	0,09	11,1
75 M / 75 T	552	242	245	257	265	220	150	351	222	314	11	6,5	G2"	G2"	8	600	360	400	0,09	12,1
100 M / 100 T	552	242	245	257	265	220	150	351	222	314	11	6,5	G2"	G2"	8	600	360	400	0,09	13,8
150 M / 150 T	574	250	290	267	274	220	150	387	258	350	11	6,5	G2"	G2"	6	720	350	430	0,11	16,7
200 M	648	250	290	267	274	220	150	387	258	350	11	6,5	G2"	G2"	6	720	350	430	0,11	20
200 T	574	250	290	267	274	220	150	387	258	350	11	6,5	G2"	G2"	6	720	350	430	0,11	17,6
300 M	648	252	290	267	274	220	150	387	258	350	11	6,5	G2"	G2"	6	720	350	410	0,11	23,9
300 T	648	252	290	267	274	220	150	387	258	350	11	6,5	G2"	G2"	6	720	350	430	0,11	19,9



## SERIES M

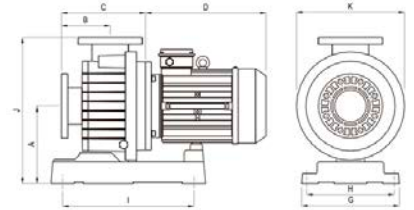
Prod. No.	Pump	A	B	C	D	E	F	G	H	I	J	L	A	H
77590(a)	M25	191	205	470	285	95	233	140	180	265	197	630	230	360
77591(a)	M33	191	205	470	285	95	233	140	180	265	197	630	230	360
77592(a)	M50	191	205	470	285	95	233	140	180	265	197	630	230	360
77594(a)	M75 (12 m³/h)	191	205	470	285	95	233	140	180	265	197	630	230	360
77595(a)	M100	191	205	470	285	95	233	140	180	265	197	630	230	360





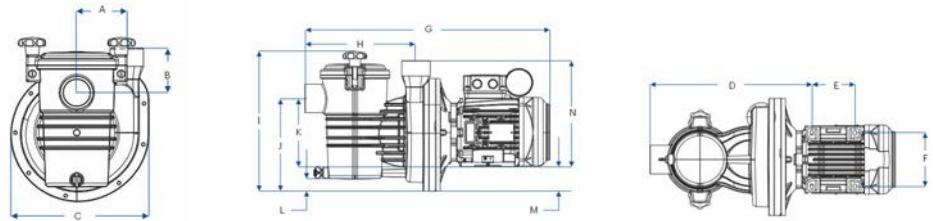
**SERIES W**

Prod. No.	Pump	A	B	C	D	E	F	G	H	I	J	L
77964(a)	W50	216	109	265	370	325	206	325	400	220	205	550
77957(a)	W75	216	109	265	370	325	206	325	400	220	197	630
77958(a)	W100	216	109	265	370	325	206	325	400	220	205	550
77959(a)	W150	216	109	265	370	325	206	325	400	220	205	580
77960(a)	W200	216	109	265	370	325	206	325	400	220	205	580
77961(a)	W300	216	109	265	370	325	206	325	400	220	205	630



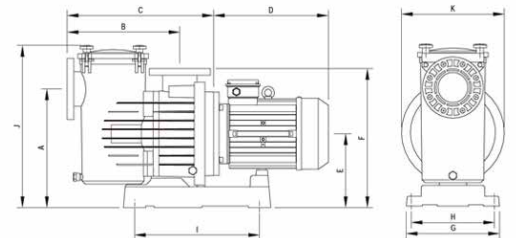
**SERIES K**

	A	B	C	D	G	H	I	J	K	A1	H1	L1
K300	265	165	255	310	335	300	450	495	370	385	595	840
K400	265	165	255	310	335	300	450	495	370	385	595	840
K550	265	165	255	330	335	300	450	495	370	385	595	840
K750	265	165	255	380	335	300	450	495	370	385	595	840
K1000	265	165	255	380	335	300	450	495	370	385	595	840
K1250	265	165	255	380	335	300	450	495	370	385	595	840
K1500	265	165	255	380	335	300	450	495	370	385	595	840



**SERIES EO**

Prod. No.	Pump	A	B	C	D	E	F	G	H	I	J	K	L	M	N
-	EO 8 to EO 19	89	79	246	339	90	112	514	233	291	193	141	26	45	220
7300075	EO 23	89	79	246	344	100	125	549	233	291	193	150	26	43	229
7300076	EO 26	89	79	246	365	125	140	581	233	291	193	160	26	33	239



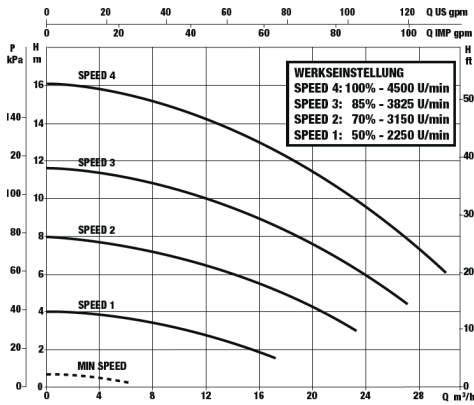
**POWER**

Prod. No.	Pump	A	B	C	D	E	F	G	H	I	J	K
74464	P300	423	410	525	310	265	500	335	300	450	590	370
74465	P400	423	410	525	310	265	500	335	300	450	590	370
74466	P550	423	410	525	335	265	500	335	300	450	590	370
74467	P750	423	410	525	380	265	500	335	300	450	590	370
74468	P1000	423	410	525	380	265	500	335	300	450	590	370
74469	P1250	423	410	525	380	265	500	335	300	450	590	370
74470	P1500	423	410	525	380	265	500	335	300	450	590	370

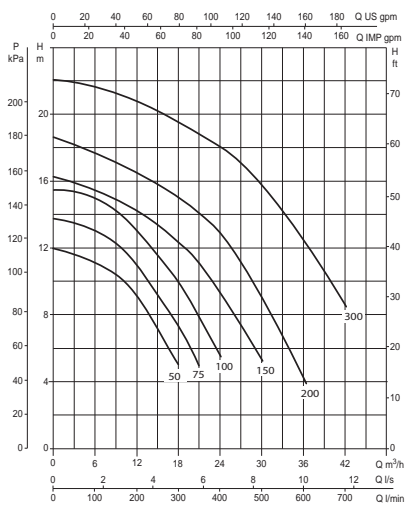
# CHARACTERISTIC CURVES

## COMPARISON

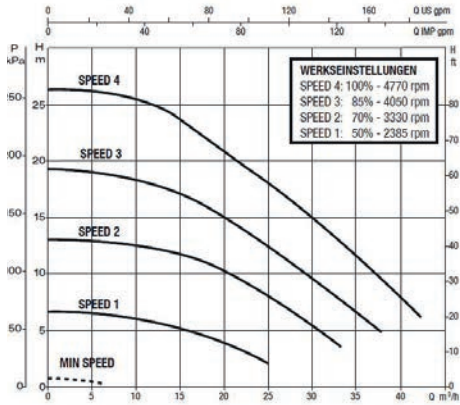
**E.PRO 150**



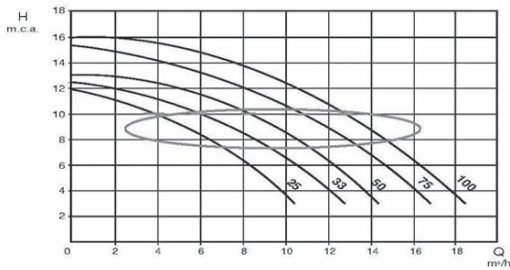
**EUROPRO**



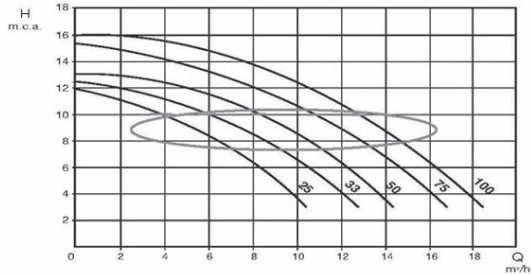
**E.PRO 300**



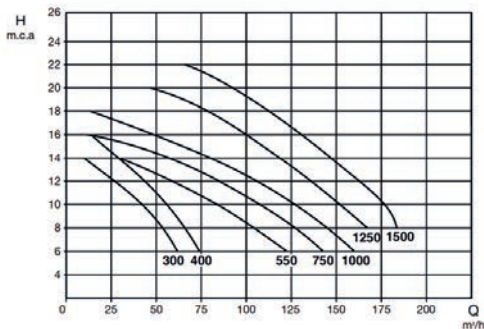
**SERIES M**



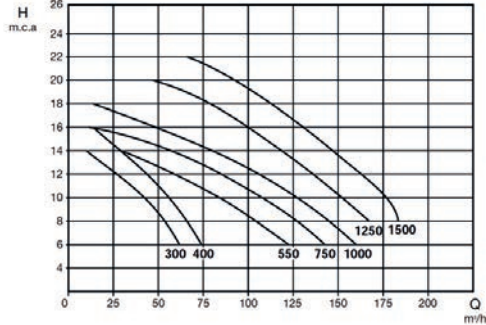
**SERIES W**



**SERIES K**



**POWER**



FAMILY, SPORT, RELAXATION – THERE IS LIFE IN A POOL.



**PERAQUA®**

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