

FILTER PUMPS

PRIVATE POOLS | COMMERCIAL POOLS
NATURAL POOLS | HOTEL POOLS



IT'S ABOUT POWER

The pool pump is the centrepiece of a filter system. It provides the necessary „power“ for the filtration process and is responsible for the entire water treatment cycle in the pool:

The pump draws in the water via the skimmer or the floor drain. The strainer basket in the skimmer and the pre-filter in the pump retain coarser impurities. The filter pump pumps the water further into the filter, where finer impurities are filtered out by the glass filter medium (Nature Works®). The pool chemicals used or alternative water treatment solutions are optimally distributed in the pool circuit by the pump.

The Peraqua range includes filter pumps for various pool sizes. They fulfil the specific requirements of private and public swimming pools. Most of the filter pumps in the P e r a q u a range are self-priming. Our speed-controlled and Modbus-capable pumps are the front runners in terms of efficiency and sustainability.

Find out more about personalising the packaging at info@peraqua.com.

SELF-PRIMING FILTER PUMPS

Most filter pumps in the Peraqua range are self-priming. These are pumps that are able to suck in water even if the pump itself is above the water level.

Ensure that there is sufficient water in the pump and the pipework before the filter pump is put into operation.

VARIABLE SPEED FOR OPTIMUM EFFICIENCY:

With a filter pump with variable speed, the performance can be adapted to the respective requirements. Modern pumps with frequency control have been proven to significantly reduce power consumption. This saves you energy and costs. These pumps also reduce the noise level.

SMART PUMPS WITH MODBUS

The range includes Modbus-capable pumps. This means that you can integrate them into smart pool technology solutions and control them conveniently via app or web interface. This allows you to keep track of the water quality and adjust the pump performance as required, as is the case with our iQnnect system, for example.



iQnnect - Smart Pool
BREGENZ 2 polyester filter with Loxone® Aquastar® Air
pool control unit and E.Pro smart pool pump



More information on the
iQnnect system at
www.iqnnect.net

THE RIGHT CHOICE OF PUMP

The right choice of pump helps to ensure excellent water quality and to operate the system economically and energy-efficiently.

- » When planning, ensure a frost-proof location, good ventilation and good accessibility for maintenance.
- » Pumps that are mounted on fixed surfaces increase the noise level. Anti-vibration feet or plates prevent unpleasant noises.
- » Modern pumps with frequency control are recommended for economical and sustainable pool operation.



EXAMPLE: CORRECT PUMP DIMENSIONING

Swimming pool:
 $8 \times 4 \times 1.5\text{m} = 48 \text{ m}^3$ water capacity

Circulation time with average load: approx. 4 hours.

i.e. the average volume flow is
 $48 \text{ m}^3 / 4 = 12 \text{ m}^3/\text{h}$

The total delivery height required for the system must now be taken into account, i.e. the sum of the friction losses (e.g. for all fittings), height differences, filter resistances, etc.

Using a diagram* to visualise the delivery height, the pump is selected so that the pump characteristic curve lies above the operating point of the system.

* When using a speed-controlled pump, the desired set flow rate is set via the display instead of the diagram. However, the performance limits of the pump must be observed when dimensioning in the same way as with a conventional filter pump.

Ocean FILTER PUMP

INVER IQ 300

- » Variable speed
- » IE4 motor
- » Modbus RTU
- » Analogue signal 0-10 V or 4-20 mA
- » Extremely quiet
- » <7 g/l saltwater resistant



- » Inver iQ 300 is a self-priming filter pump, infinitely variable and can be operated at variable speed. The IE4 permanent magnet motor is lownoise, highly efficient, sensorless and brushless. Compared to a conventional ON/OFF pump, energy savings of up to 82% can be achieved.
- » The pump is equipped with MODBUS-RTU and therefore has an open interface for integration into iQnnect and smart home systems.
- » Stainless steel screws and stainless steel shaft
- » 4 daily filter cleaning programmes, individually configurable
- » Volume flow control
- » Large pre-filter (4.6 litres) incl. 2-part transparent lid with key for easy opening
- » Error message at dirty pre-filter
- » Sufficiently dimensioned mechanical seal
- » 4 digital inputs, input for NTC temperature sensor, 2 freely programmable relay outputs (5A)
- » Double connection options: Internal and external thread 2" (d63), highquality IBG® fittings included in the scope of delivery
- » Overpressure and underpressure protection, dry-running protection, protection against input voltage fluctuations
- » Ready to plug in
- » IP55 protection class

Filter pump Inver iQ 300	
Item No.	7301537
Noise level max (A)	< 45 db
P1 max	2.53 W
P2 nominal power	2.2 kW 3 PS
I	10.5 A
Volume flow	up to 30 m³/h at 10 m
Connection	2" IG and AG
Tension	230V-50/60Hz
Water temperature max.	< 40 °C
Ambient temperature max.	50 °C
Operating pressure max.	2.2 bar



EXAMPLE: ENERGY COST SAVINGS

Filter pump Inver iQ 300

The following guide values are used for the calculation. The guide values vary and depend on the current electricity price, operating time, etc.

Pump running time 10 h/day
 Pump running time 180 days (pool season of 6 months)
 Electricity price 0.35 € / kWh
 Pool volume 48 m³

Pump comparison	Efficiency	Required power	Energy costs 1 year	Savings 1 year	Savings 5 years
Standard filter pump 75	55%	1800 kWh	€ 630.00		
Inver iQ 300	87% speed-controlled	1141.86 kWh	€ 399.65	€ 230.35	€ 1151.74

< 37%
ENERGY COST SAVINGS
 COMPARED TO THE
 STANDARD SOLUTION

Ocean FILTER PUMP SERIES O



- » IE3 Motor
- » <7 gr/l saltwater resistant

- » The self-priming pump achieves a very high filtration performance. The particularly large pre-filter offers high filter quality and requires significantly less cleaning compared to conventional filter pumps.
- » Highly efficient IE3 motor, single-phase or three-phase
- » Double connection options: Internal and external threads 2" (d63), high-quality IBG® fittings included in the scope of delivery
- » Large, transparent pre-filter (4.6 litres) incl. 2-part lid with key for easy opening
Stainless steel screws and stainless steel shaft
- » Mechanical seal made of stainless steel AISI-316, housing made of glass fibre reinforced plastic
- » Single-phase models (7301525, 7301527, 7301529, 7301531) are supplied ready to plug in
- » IP55 protection class

Item No.	Tension 50 Hz	P1 max kW	P2 kW - PS	I A	Delivery height	Volume flow	Noise level max db
7301525	230V	0.53	0.37 - 0.5	4.2	14.9 m	11.1 m³/h at 10 m	66
7301526	400 V	0.49	0.37 - 0.5	1.7	14.9 m	11.1 m³/h at 10 m	66
7301527	230V	0.74	0.55 - 0.75	5	16.1 m	13.5 m³/h at 10 m	66
7301528	400 V	0.70	0.55 - 0.75	2	16.1 m	13.5 m³/h at 10 m	66
7301529	230V	0.97	0.75 - 1.0	5.5	16.3 m	18 m³/h at 10 m	67
7301530	400 V	0.92	0.75 - 1.0	2.2	16.3 m	18 m³/h at 10 m	67
7301531	230V	1.38	1.10 - 1.5	7.3	20 m	21 m³/h at 10 m	68
7301532	400 V	1.33	1.10 - 1.5	2.9	20 m	21 m³/h at 10 m	68
7301533	230V	1.84	1.50 - 2.0	9.2	20 m	24 m³/h at 10 m	68
7301534	400 V	1.78	1.50 - 2.0	3.5	20 m	24 m³/h at 10 m	68
7301535	230V	2.64	2.20 - 3.0	12.2	24 m	29 m³/h at 10 m	69
7301536	400 V	2.54	2.20 - 3.0	5	24m	29 m³/h at 10 m	69

Ocean FILTER PUMP CONTROL ECO



- » 3-stage speed

- » ECO pump controller for retrofitting to 3-phase pumps. This enables the automatic control of filter times, release of salt electrolysis systems or heat pumps, forced ON/OFF function for overflow basins, etc.
- » 4 daily filter cleaning programmes can be individually configured
- » 1-phase power supply, 230 V
- » 3-stage speed control between 700-2800 r.p.m.
- » 2 freely programmable relay outputs (5A/230V), 2 digital inputs
- » NTC temperature sensor
- » Contains the necessary protective measures for the pump (dry running and overload protection)

Filter pump control

Item No.	7301538
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smart FILTER PUMP E.PRO

- » Variable speed
- » LCD display programmable menu
- » Water-cooled: extremely quiet
- » 4 g/l salt water resistant

- » E.Pro is a particularly energy-efficient, electric, self-priming pool pump with a particularly large pre-filter. E.Pro is equipped with a synchronous permanent magnet motor that is controlled by a frequency converter. Thanks to the frequency converter, the speed and therefore the flow rate can be adjusted to optimise performance and reduce energy consumption.
- » The motor is water-cooled (no motor fan) and runs extremely quietly.
- » One model includes the outputs of 4 pumps (0.33 kW, 0.5 kW,
- » Transparent cover that can be opened without tools. This makes it easier to clean the pre-filter.
- » Mechanical seal made of carbon/alumina/NBR/AISI 316, impeller made of glass fibre reinforced plastic
- » Support foot with rubber feet to reduce vibrations
- » IPX5 protection class, reference standard: IEC - 60364, insulation class: F
- » pH range: 6.5 - 8.4



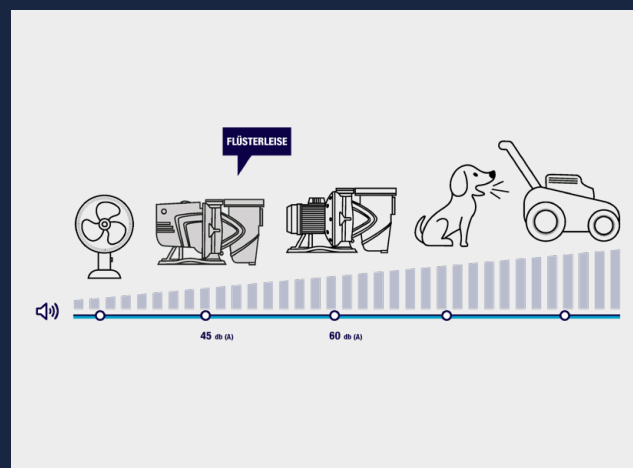
Filter pump E.Pro	E.Pro 150	E.Pro 300
Item No.	7300445	7300905
Noise level max (A)	< 50 db	< 45 db
P1 max	1250 W	2250 W
P2 nominal power	1.1 kW 1.5 PS	1.9 kW 2.6 PS
IN	5.6 A	10 A
Volume flow	up to 23 m ³ /h at 10 m	up to 37 m ³ /h at 10 m
Connection	2" IG	
Tension	Single-phase 230 V - 50/60Hz	
Water temperature max.	< 40 °C	
Ambient temperature max.	50 °C	
operating pressure max.	2.5 bar	

SELECTION TABLE

for private pools

Swimming pool dimensions m	Water volume m ³	Flow rate m ³ /h	Model
8 x 4	35 to 50	9	Inver iQ 300 Series O 50 E.Pro150 Europro 50
8 x 4 to 10 x 5	50 to 70	12	Inver iQ 300 Series O 75 E.Pro150 Europro75
10 x 5 to 12 x 5	70 to 90	15	Inver iQ 300 Series O 75 / 100 E.Pro150 Europro75 / 100
11 x 6 to 12 x 6	90 to 110	18	Inver iQ 300 Series O 100 E.Pro150 Europro100

NOISE LEVEL COMPARISON



smart FILTER PUMP EUROPRO

- » particularly efficient
- » low noise
- » 4 g/l salt water resistant

- » Europro is a low-noise, particularly efficient, self-priming pool pump with a particularly large pre-filter.
- » Two-pole asynchronous motor for continuous operation, single or two-phase, single-phase version with built-in voltage and thermal circuit breaker
- » Carbon/Aluminium/NBR/AISI 316 mechanical seal
- » Transparent lid that can be opened without tools. This simplifies cleaning of the pre-filter.
- » Bolts and nut for reinforcement ring made of AISI 316
- » Support foot with rubber feet to reduce vibrations
- » Plug&Play version available for 50M, 75M, 100M



Item No.	Tension 50 Hz	P1 max W	P2 kW - PS	In A	Volume flow	Noise level max db (A)
7300446 - 50 M	1x220-240V -	900	0.33 - 0.5	4.2	10 m³/h at 10m	53
7300447 - 75 M	1x220-240V -	1000	0.5 - 0.75	5	14 m³/h at 10m	56
7300452 - 75 T	3x230-400V -	950	0.5 - 0.75	3.5 / 2	14 m³/h at 10m	56
7300448 - 100 M	1x220-240V -	1300	0.75 - 1	6.3	18 m³/h at 10m	57
7300453 - 100 T	3x230-400V -	1200	0.75 - 1	4 / 2.4	18 m³/h at 10m	57
7300449 - 150 M	1x220-240V -	1600	1.1 - 1.5	7	23 m³/h at 10m	59
7300454 - 150 T	3x230-400V -	1500	1.1 - 1.5	5 / 2.9	23 m³/h at 10m	59
7300450 - 200 M	1x220-240V -	1900	1.5 - 2	8.6	28.6 m³/h at 10m	62
7300455 - 200 T	3x230-400V -	1900	1.2 - 2	6 / 3.5	28.6 m³/h at 10m	62
7300451 - 300 M	1x220-240V -	2800	2.2 - 3	12	40 m³/h at 10m	64
7300456 - 300 T	3x230-400V -	2800	2.2 - 3	8.7 / 5	40 m³/h at 10m	64

smart FILTER PUMP SERIES M

- » Two different connection types

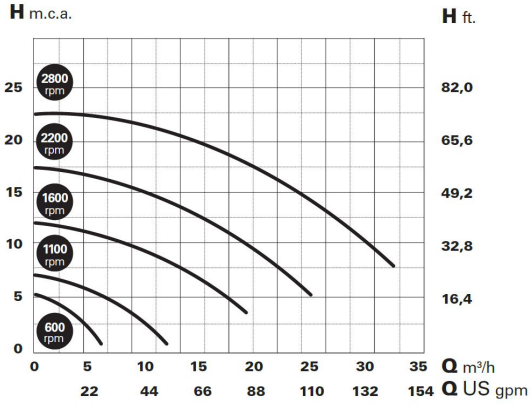
- » Self-priming electric pump for swimming pools with built-in pre-filter and transparent polycarbonate cover
- » Asynchronous motor, hermetically sealed, the motor's ball bearings are permanently lubricated and guarantee a long service life
- » Glass fibre reinforced pump body, cover and manifold screw
- » Connection made of stainless steel AISI 304 Aluminium foot bracket
- » Two connection types: Glue socket d50 / internal thread 1½"
- » IP55 protection class, insulation class: F



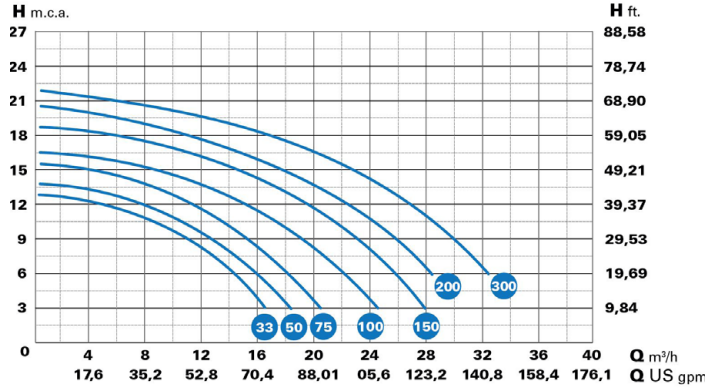
Filter pump Series M	M25	M33	M50	M75	M100
Item No.	230 V 400 V 77590 77590a	77591 77591a	77592 77592a	77594 77594a	77595 77595a
P2 (kW)	0.16	0.25	0.37	0.55	0.70
P1 (kW)	0.29	0.38	0.57	0.88	1.06
Volume flow m³/h at 8 m	6	8	10	12.5	15.3
Connection	1.5"	1.5"	1.5"	1.5"	1.5"

PUMP CHARACTERISTICS CURVE

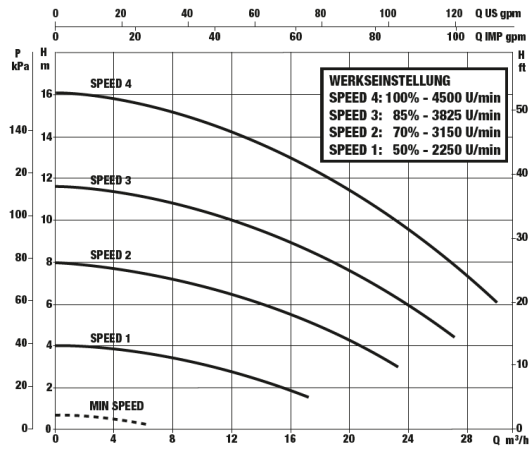
INVER IQ 300



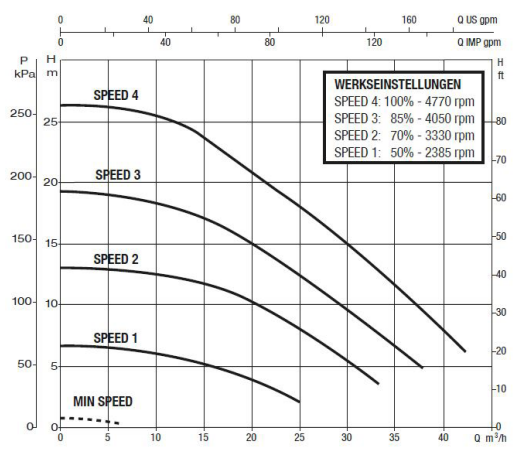
SERIES O



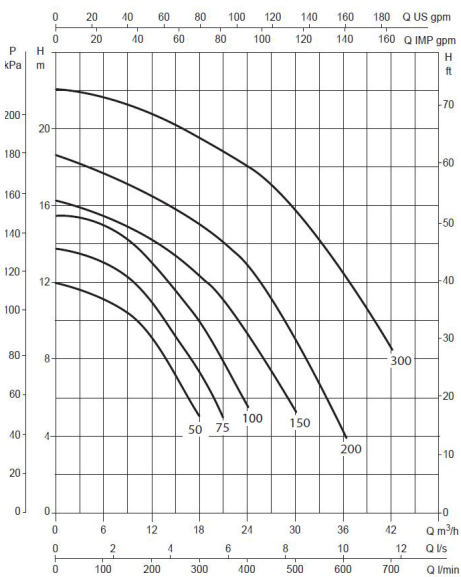
E.PRO 150



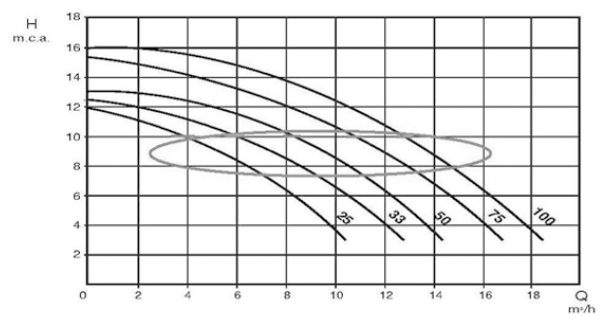
E.PRO 300



EUROPRO



SERIES M



smart FILTER PUMP SERIES K

- » High flow rate
- » Flange connection
- » Suitable for counter-current systems

- » Series K is a pool pump with a high delivery rate for public swimming pools and water systems
- » Supplied with standardised connection flanges as standard
- » Asynchronous motor, hermetically sealed
- » Motor ball bearings are permanently lubricated to guarantee a long service life and low noise level
- » Mechanical seal made of carbon ceramic and AISI-316 stainless steel, Screw connection and shaft made of AISI-316 stainless steel
- » IP55 protection class, insulation class: FF



Item No.	Tension 50 - 60 Hz	P1 max kW	P2 kW - PS	Connection mm	Volume flow	Speed
74471	230-400V	2.72	2.2 - 3	DN110	43 m³/h at 10m	1450 rpm
74472	230-400V	3.63	3 - 4	DN110	56 m³/h at 10 m	1450 rpm
74473	230-400V	4.75	4 - 5.5	DN110	84 m³/h at 10 m	1450 rpm
74474	400-690V	6.42	5.5 - 7.5	DN110	107 m³/h at 10 m	1450 rpm
74475	400-690V	8.62	7.5 - 10	DN110	126 m³/h at 10 m	1450 rpm
74476	400-690V	10.45	9.2 - 12.5	DN110	152 m³/h at 10 m	2850 rpm
74477	400-690V	12.44	11 - 15	DN110	177 m³/h at 10 m	2850 rpm

smart FILTER PUMP POWER

- » High flow rate
- » Flange connection

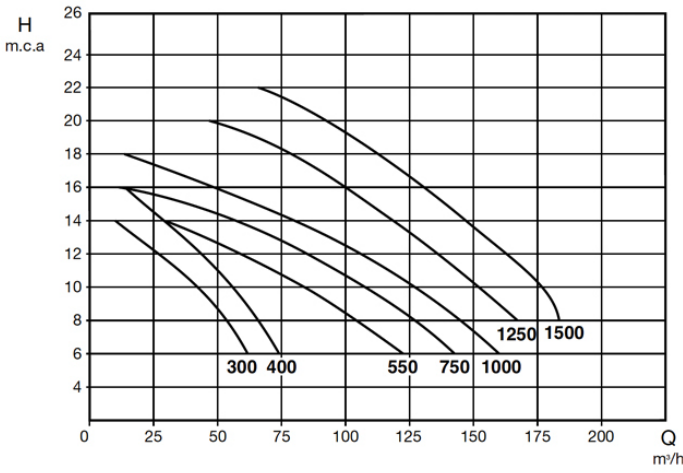
- » Self-priming high-performance pump with 2 and 4-pole motors for large filter systems
- » Large pre-filter with high filter efficiency built into the intake, transparent polycarbonate filter cover with 4 handles
- » Mechanical seal made of carbon ceramic and AISI-316 stainless steel, Screw connection and axle made of AISI-316 stainless steel
- » Pre-filter, pump body, screw, counter screw made of polypropylene
- » Standardised connection flanges as standard for outstanding robustness
- » Asynchronous motor, hermetically sealed
- » Motor ball bearings are permanently lubricated to guarantee a long service life and low noise level
- » IP55 protection class, insulation class: F



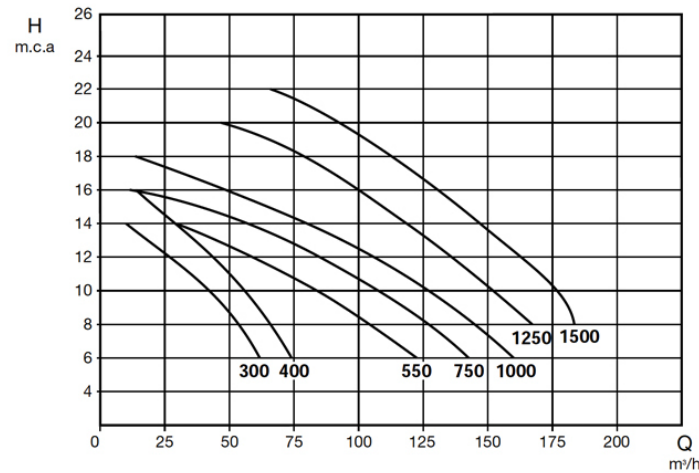
Item No.	Tension 50 - 60 Hz	P1 max kW	P2 kW - PS	Connection mm	Volume flow	Speed
74464	230-400V	2.72	2.2 - 3	DN110	43 m³/h at 10m	1450 rpm
74465	230-400V	3.63	3 - 4	DN110	56 m³/h at 10 m	1450 rpm
74466	230-400V	4.75	4 - 5.5	DN110	84 m³/h at 10 m	1450 rpm
74467	400-690V	6.42	5.5 - 7.5	DN110	107 m³/h at 10 m	1450 rpm
74468	400-690V	8.62	7.5 - 10	DN110	126 m³/h at 10 m	1450 rpm
74469	400-690V	10.45	9.2 - 12.5	DN110	152 m³/h at 10 m	2850 rpm
74470	400-690V	12.44	11 - 15	DN110	177 m³/h at 10 m	2850 rpm

PUMP CHARACTERISTICS CURVE

SERIES K



POWER



FAMILY, SPORT, RELAXATION - THERE'S LIFE IN A POOL.



PERAQUA®

A POOL FULL OF LIFE

Our top priority is to enrich every pool with creative, perfect, affordable and, above all, durable pool technology. The focus is on ensuring that the selected technology provides maximum ease of use, safety, cleanliness and sustainability for your project.

Adapted to the digital age, you can choose between fully automatic pool control solutions based on WiFi or manual system solutions in **Peraqua®-Quality**.

Our mission is to implement Peraqua® & Praher top quality in all areas of our range of services from sales, marketing, logistics, training, service as well as repair and after-sales service with the best commitment.

PERAQUA®



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