

PERAQUA®



Qmfort
.NET



DESIGNED, ENGINEERED & PRODUCED IN AUSTRIA

iQmfort

iQmfort is the „all-in-one“ solution of intelligently networked Peraqua® pool technology for those who do not want to miss the comfort of fully automatic control. With the automation of the pool technology, you can achieve long-lasting, hygienically clean pool water – the principle for sustainability, safety and hygiene in daily pool operations.





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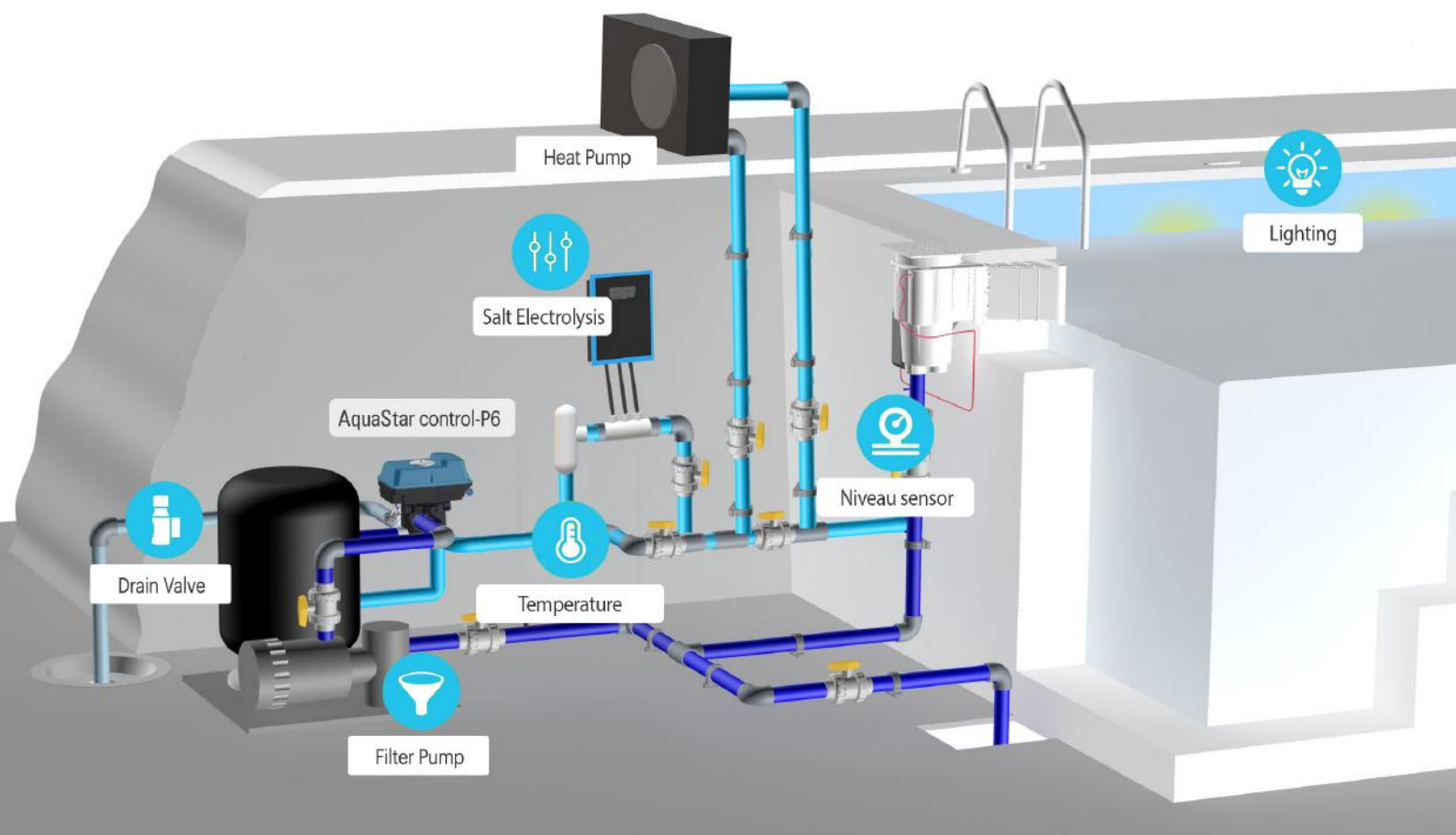
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YOUR ALL-IN-ONE POOL

ONE POOL.
ONE SYSTEM.
ONE CONTROL.

A well networked pool control saves a lot of time for each pool owner, is energy efficient and makes a contribution to sustainable pool operation. With the best possible pool technology there are a lot of possibilities for the pool automation. The Aquastar® Control-P6 is the heart of the iQmfort pool, from here the control of numerous functions of the Peraqua pool technology can be realized.



FUNKTIONEN

FILTER & FILTER PUMP CONTROL

- Automation of backwash and filter times with user-friendly weekly schedule
- Sustainable and energy-efficient filtering
- Increase in pump performance during the backwash process,
- resulting in more efficient filter cleaning

NIVEAU CONTROL

- Water level regulation with float switch (skimmer pool)
- Automatic level control provides dry-running protection, this protects e.g. the mechanical seal of the filter pump

WATER TEMPERATURE CONTROL

- Heating, cooling or heating & cooling with the Inverter heat pump thanks to inverter technology
- Automatic operation is controlled via a set target temperature
- Automatic regulation of the water temperature with the Full-Inverter Plus heat pump
- PV-ready: the heat pump can be activated via an enabling contact as soon as the PV system produces enough energy

WATER TREATMENT

- The use of chemicals can be reduced by means of automatic water treatment. Only the required amount of chlorine and pH-Minus is dosed as required. It therefore helps the pool owner to keep the water quality and the pool clean and hygienic for a long time.

UNDER WATER LIGHTS

- Thanks to innovative technologies such as QuickConnect™, PressFit™ or ClickOn™, they enable practical fitting and simple installation
- Color scenario changes automatically via time control

AUTOMATIC NIVEAU CONTROL

Aquastar® Control-P6

With the intelligent control electronics the new Aquastar® model offers many fully automatic functions and is the perfect „all-in-one“ control device. All common pool technic components as filter pump, temperature and solar control, water treatment, EO510 electric valves, niveau control and more are controlled with the clearly designed display.

The new functions combined in one device provide a perfect overview, more application security and individual control according to your needs.



INDIVIDUAL BACKWASH CYCLES

6 WAYS - 7 POSITIONS

FILTER
BACKWASH
RINSE
CIRCULATION
DRAIN
CLOSED
WINTERING

ALL VALVE POSITIONS SELECTABLE

FUNCTIONS

BACKWASH TRIGGER

Backwashing is triggered time or pressure dependent. Digital inputs also enable control via external controls. With the new display, backwashing can also be triggered via the menu.

PUMP CONTROL

The new Aquastar® Control regulates the filter times fully automatically, which can be set via the menu. When the position of the valve changes, the valve disc rises. The pump is switched off automatically so that the valve disc can be switched over without pressure.

TEMPERATURE / SOLAR CONTROL

The „Heating“ relay can be used to switch off a heater before switching off the pump. Up to 3 digital 1-wire sensors can be connected: heating control with pool sensor, solar control with additional solar sensor and display of the outside temperature

NIVEAU CONTROL

The float switch for skimmer pools can be connected via a digital input. If the water level in the pool is too low, water is automatically topped up.

FILTER LINZ

Laminated side mount filter for private pools made of glass fibre reinforced plastic. Handmade to ensure maximum chemical and mechanical resistance. The built-in parts are made of PP, ABS and PVC. All screws used are made of high-strength, corrosion-resistant INOX (stainless steel), nuts are made of nickel-plated brass. Supplied with vent valve and pressure gauge. Black flange cover (d300 mm).



**WITH VENT VALVE
AND PRESSURE GAUGE**

BLACK FLANGE COVER

**INCL. ORIGINAL
PRAHER 6-WAY
VALVE 1½" OR 2"**

**LAMINATED AND
DIN EN 16713 COMPLIANT**

FILTER LINZ

Prod.No. 7301603
d500, incl.
6-way valve 1½"

Prod.No. 7301604
d610, incl.
6-way valve 1½"

Prod.No. 7301605
d610, incl.
6-way valve 2"

Prod.No. 7301606
d765, incl.
6-way valve 2"

Prod.No. 7301607
d920, incl.
6-way valve 2"

AQUASTAR® CONTROL-P6

Prod.No. 131492
ND 1, 1½" + 2", 24V
AC/DC

Prod.No. 131493
ND 1, 1½" + 2", 100-
240 VAC

FILTER DRAINAGE

Prod.No. 7301469
drain valve with
hose connection

AUTOMATIC NIVEAU CONTROL AQUASTAR® Control-P6

An automatic niveau control in the pool offers a secure overflow and/or dry running protection. Not only for comfort but also for protection of all pool technology components.

NIVEAU CONTROL IN SKIMMER POOLS

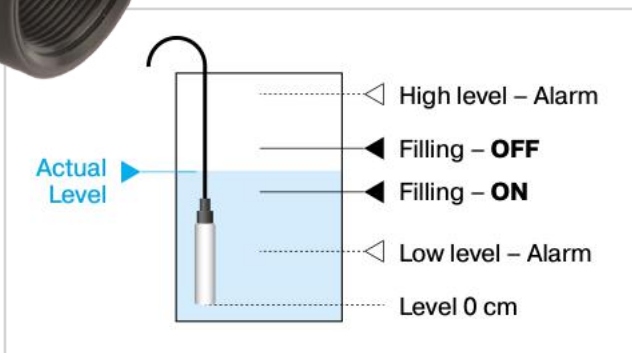
The Aquastar® Control-P6 has a digital input for connection to a float switch to control the water level automatically.

A magnetic valve can be connected to the Aquastar® Control P6 with the serial relay. When the water level is too low the magnetic valve open and the necessary water volume is filled in to avoid dry-running of the system.



FEATURES FLOAT SWITCH

- Release of automatic filling.
- Activation of the automatic filling. Filling is continued until the sensor unblocks the release.
- Adjustment of overflow protection with time control.
- Status of water level displayed: „OK“ / „Filling“ / „Error“.
- Valve position displayed.



LEVEL SENSOR - LEVEL MONITORING AND AUTOMATIC REFILLING*

The water level is monitored using a pressure-type level sensor, which is easy installed by inserting the probe into the buffer tank or the blind nozzle of skimmer pools. DOS-COMPLETE monitors four different levels, which can be set in centimeters in the water level meter menu.

SETTING:

High level ALARM - too much water in buffer tank
 After this level is reached, following actions may start:
 1. If the automatic filter backwash is enabled, one backwash cycle starts and drains the waste water.
 2. If the automatic filter backwash is not enabled, the relay 19 switches on (filter backwash) for the period of time until level is OK. The second circulating pump or automatic drain valve can be connected to this relay.

Refilling OFF - required level
 Refilling stops

Refilling ON - level at which refilling starts
 Refilling starts after if the water level stay permanently at least for 10 seconds below this value (in order to prevent oscillating)

Low level ALARM
 Circulation (filtration) pump shuts off.

*Only in combination with the DOS-COMPLETE and SALT-COMPLETE dosing systems.

MINI FLOAT SWITCH

Prod.No. 31150
with 5 m cable

Prod.No. 31152
mit 15 m cable

SOLENOID VALVE

Prod.No. 7300699
½" solenoid valve
made of brass, for N2

Prod.No. 7300700
¾" solenoid valve
made of brass, for N2

Prod.No. 50631
2/2-way 24V DC
solenoid valve, for P6

SENSOR SET

Prod.No. 7301694
water level sensor for
iQntrol Complete

AUTOMATIC WATER TREATMENT SALT-COMPLETE

In salt electrolysis, the pool water is enriched with suitable industrial salt (NaCl - sodium chloride), such as Peraqua® Smart Sea Salt. Electrolysis is triggered in the cell of the salt system by the flow of electricity, which splits the salt into free chlorine. It is therefore created from a natural product. The resulting free chlorine destroys microorganisms and is therefore a very powerful disinfectant that is an alternative to liquid chlorine.

The sensors already included in the delivery, such as pH, redox, temperature, or salinity sensors, ensure automatic monitoring and control of all water parameters with real-time data."

The salt concentration for optimum disinfection of the pool water is between 4-6 g/l, the pH value should be between 7.0 and 7.4. For initial commissioning, we recommend 5 kg of salt per m³ pool volume and a redox value of 700 mV. The redox value should be increased or decreased depending on the chlorine content in the water.



POOL MANAGEMENT

- Filter times (two time intervals per day)
- Level control: the water level can be monitored with the optional pressure sensor or float switch; the water level can be monitored on up to four levels for overflow basins
- Backwash control (backwash frequency): in combination with the Aquastar® Easy 2 automatic backwash valve (backwash duration)
- Pump control: connection for ON/OFF pump via integrated socket, for speed-controlled pump via 4 potential-free contacts, when changing the valve position (automatic 6-way valve) the pump is switched off, when backwashing the speed is increased for more efficient backwashing
- Heating control: Intelligent control of the set water temperature for electric heaters, heat exchangers, heat pumps (supports temperature-dependent heat pump release)
- Economy mode possible for overflow basins
- RS485 interface for integration into iQnnect

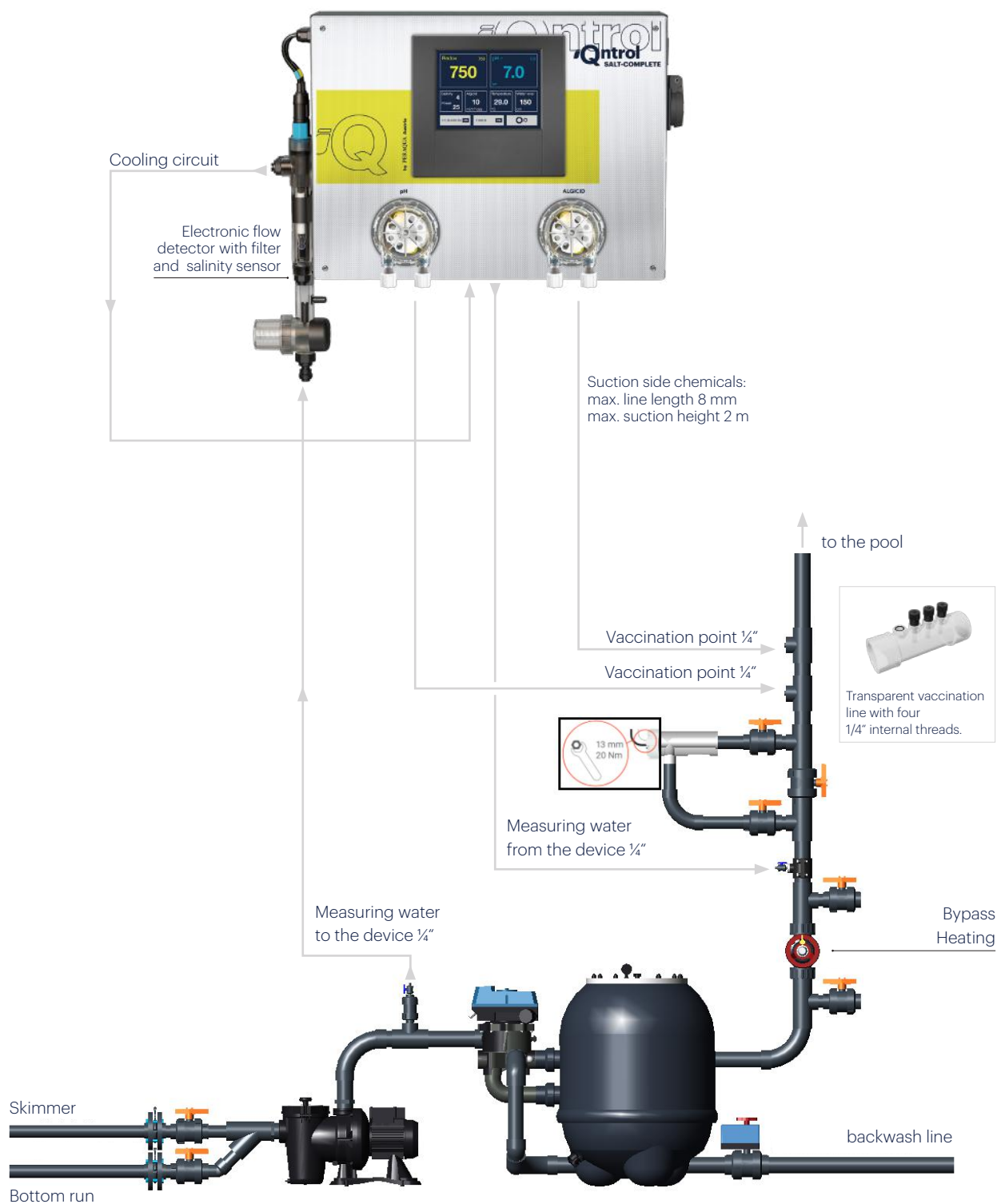
LOW-SALT-CAPABLE

TOUCHSCREEN

PLUG-IN READY

APP-CAPABLE

POOLS UP TO 75 m³



**iQntrol
SALT-
COMPLETE**

Prod.No. 7301688
SALT-Complete,
25 g Cl/h

**SPARE
PARTS**

Prod.No. 7301690
pH electrode
Long Life

Prod.No. 7301692
REDOX electrode
Salt

ACCESSORIES

Prod.No. 7301747
Transparent
vaccination line
4x 1/4", d50/63

Prod.No. 7301696
Storage liquid for
pH and REDOX
probes, 20 ml

Prod.No. 7300776
Buffer liquid pH 7,
90 ml

Prod.No. 7301694
Water level sensor

Prod.No. 7301734
Float Switch

AUTOMATIC TEMPERATURE CONTROL FULL-INVERTER PLUS

The Full-Inverter Heat Pump Plus works with variable speed and adjusts the output according to the ambient conditions. The temperature of the pool water is automatically adjusted to the set target value thanks to the heating, cooling or automatic mode. The Full-Inverter technology prevents high temperature fluctuations, saves energy and is noticeably quieter in operation, while the heat pump also offers a soft start. This means that the power consumption increases slowly at the start.

- The Full-Inverter Heat Pump Plus is Modbus RTU-capable and can be perfectly integrated into the iQnect system.
- The heat pump is connected to the mains supply. It is important that the heat pump is supplied via its own fuse.
- When using a heat pump, a pool cover and a well-insulated pool are recommended.
- The heat pump is dimensioned according to the size of the pool. This means greater energy savings and a quieter noise level. Due to the higher output, a larger model also extends the swimming season.
- The heat pump is connected to the Modbus extension via a special connection cable (Modbus connection cable, 4-pin plug).



Prod.No.	7300714	7300715	7300772	7300716
Recommended pool size (m ³)*	25-45	30-55	35-65	40-75
Operation temperature (°C)	-7-43			
Operation conditions: Air 26°C, Water 26°C, Humidity 80%				
Heat capacity (kW)	10.3	12.8	15.0	17.3
C.O.P	14.5-6.9	15.0-7.4	15.5-6.7	14.8-5.9
COP at 50% capacity	10.4	11.0	10.9	10.5
Operation conditions: Air 15°C, Water 26°C, Humidity 70%				
Heat capacity (kW)	7.1	8.3	10.5	11.4
C.O.P	7.3-4.6	7.7-4.8	7.8-4.6	7.5-4.3
COP at 50% capacity	6.4	6.8	6.6	6.1
Operation conditions: Air 35°C, Water 28°C, Humidity 80%				
Cooling capacity (kW)	4.5	5.5	6.8	7.7
Sound level 1m dB(A)	38.6-49.9	42.1-50.7	41.3-54.0	43.1-53.8
Sound level 10m dB(A)	18.6-29.9	22.1-30.7	21.3-34.0	23.1-33.8
Sound level at 50% speed 1m dB(A)	43.3	45.7	46.0	46.5
Heat Exchanger	Titan			
Power Supply	230V/1 Ph/50Hz			
Rated input power at 15°C (kW)	0.19-1.5	0.22-1.73	0.27-2.2	0.3-2.6
Rated current at 15°C (A)	0.83-6.5	0.96-7.52	1.17-9.6	1.3-11.3
Recommended flow (m ³ /h)	3-4	4-6	5-7	6.5-8.5
Pipe specification in-out (mm)	50			

*The specified values apply under ideal conditions: Pool is covered with an isothermal cover, filter system runs at least 15 hours a day, minor deviations in the technical specifications are possible depending on the system and subject to technical changes.

Efficient and optimum operation only recommended above freezing point (0 C°).



FUNCTIONS

- Mode: Heating, cooling or heating & cooling.
- Power level adjustment : sound level of the heat pump is lower as lower power level. Mode „smart“ (full power) and „silence“ (power level next to the last).
- Set temperature adjustable.
- Actual temperature displayed.
- Status of the heat pump: ON, OFF or ERROR.

FULL INVERTER PLUS

Prod.No. 7300714
10.3 kW,
pool size up to 45 m³

Prod.No. 7300715
12.8 kW,
pool size up to 55 m³

Prod.No. 7300772
17.3 kW,
pool size up to 65 m³

Prod.No. 7300716
15.0 kW,
pool size up to 75 m³



FILTER PUMP CONTROL

Ocean® Serie O

The O series swimming pool pump is a self-priming high-performance centrifugal pump with integrated pre-filter and is 100% reliable thanks to its corrosion-resistant components. The O series is also characterized by its low noise emission.

The swimming pool pump is connected to the Aquastar® via terminals 13/14, which switches off the filter pump in the event of a valve movement. A maximum of 8A may be switched via the contacts on the Aquastar®; if this current is exceeded, the pump must be switched via a power relay/contactator.

FUNCTIONS

- The operating times of the pumps are set via the Aquastar® Control-P6 with a weekly schedule. The pump is automatically activated in the “Filter” and “Backwash” valve positions.
- The overrun of the filter pump can be set via the Aquastar®. This function is responsible for utilizing the residual heat of a heat exchanger.
- Adjustable heating hysteresis: is responsible for the deviation from the set temperature. The higher the hysteresis is set, the higher the temperature deviation can be.
- With the Aquastar® Control-P6, the pump can also be activated manually and operating times for automatic operation can be set.

PUMPE SERIE O

Prod.No. 7301525
Ocean® filter pump
O50 2", 11.1 m³/h at
10 m, P1 0.57 kW, P2
0.37 kW 230V

Prod.No. 7301527
Ocean® filter pump
O75 2", 13.5 m³/h at
10 m, P1 0.80 kW, P2
0.55 kW 230V

Prod.No. 7301529
Ocean® filter pump
O100 2", 18 m³/h at
10 m, P1 1.06 kW, P2
0.75 kW 230V

Prod.No. 7301531
Ocean® filter pump
O150 2", 21 m³/h at
10 m, P1 1.51 kW, P2
1.10 kW 230V

Prod.No. 7301533
Ocean® filter pump
O200 2", 24 m³/h at
10 m, P1 2.0 kW, P2
1.50 kW 230V

Prod.No. 7301535
Ocean® filter pump
O300 2", 29 m³/h at
10 m, P1 2.78 kW, P2
2.20 kW 230V

AUTOMATIC POOL LIGHTING

VISION PRO



RGBW SPECTRUM DIMMABLE

The VISION Pro LED lighting solutions are designed for easy handling and economical use. An easy-to-install plug with gold-plated contacts enables uncomplicated connection.

With PressFit™, the underwater lights offer a mounting system that allows them to be fitted seamlessly to the wall, even if the surface of the pool wall is not 100% flat.

Depending on the pool size and requirements, the Vision lights are available in 5, 10 or 17 cm diameters and can be installed in 1 1/2" IG wall ducts.

Thanks to the option of retrofitting the pool with the Vision and the innovative concept for effortlessly replacing panels, the Vision underwater spotlights can be installed in any pool.

The spotlights are connected to the DMX-capable Vision Pro remote control according to the connection diagram.

FUNCTIONS

- The Vision Pro underwater spotlights include all colors of the RGBW spectrum
- Colors adjustable with an RGB color rose, dimmable with % control
- A color change can also be set

VISION PRO UNDER WATER LIGHTING

Prod.No. 7301366
Ø 5 cm, RGBW,
1200 lm, 33W

Prod.No. 7400388
Ø 10 cm, RGBW,
3500 lm, 85W

Prod.No. 7301674
Ø 17 cm, RGBW,
7000 lm, 180W

Prod.No. 7400294
Remote control for VISION Pro,
Spectra, Adagio Pro or Moonlight

Matching covers in V4A or plastic available in different colors for all sizes.

FLOW CONTROL

PVC valves from Praher Plastics® promise over-average durability, best UV resistance and optimal pressure and flow characteristics. The numerous connection types and sizes as well as sealing types offer a wide range of piping systems for the pool.



MANUAL BALL VALVE

S6

The modular, manual S6 ball valve boasts 100% tested quality for system safety. The S6 2-way ball valve is available in all standard connection variants and with a PTFE or PE ball seat ring. Praher Plastics® ball valves have the best flow characteristics.



AUTOMATIC BALL VALVE

S6

The Praher Plastics® ball valve EO510 is automatically controlled by the Aquastar® Air. In the iQnect system there is a ball valve S6 installed onto the sewer pipe and is automatically opened for backwash, rinse and drain process. This avoids water loss during position change of the backwash valve or in position "winter".

The automatic ball valve S6 is available in different sizes (standard d50 and d63) and in model 12-24 V AC/DC and 230V AC.

THIS IS HOW THE iQmfort POOL WORKS GOOD TO KNOW

POOL SIZE & POOL TECHNOLOGY

The pool technology of iQmfort is designed for private, hotel- and natural pools of 5 x 3 x 1.5 m up to 15 x 6 x 1.5 m. Depending on the pool size various models of the presented products can be installed. Depending on customer's request there is also the possibility to integrate other products.

However, we only provide technical instructions for the products listed and offer full warranty protection in accordance with our General Terms and Conditions.

MANUALS AND CONNECTION DIAGRAMS

Peraqua® has detailed manuals for the respective components. You can find these at www.iqmfort.net or shop.peraqua.com.

UPGRADING

In order to upgrade an existing pool with iQmfort, it is important the Aquastar® control-P6 is installed in the system with the appropriate PraherPlastics® backwash valve. Depending on customer requirements, other iQmfort-capable components from Peraqua® (e.g. swimming pool pump, salt electrolysis, heat pump, underwater lighting, etc.) can be installed.

EXPERTS FOR YOUR PROJECT

For a iQnnect project we recommend close cooperation with a pool specialist supplier and a Loxone® partner. We also would be happy to assist if necessary



REQUESTS

For your pool projects and well selected iQmfort components depending on the pool size, please call or send an email to:

PHONE: +43 7435 58 488-0

E-MAIL: info@peraqua.com

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