PERAQUA®

Qmfort

.NET

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.

CONTENT
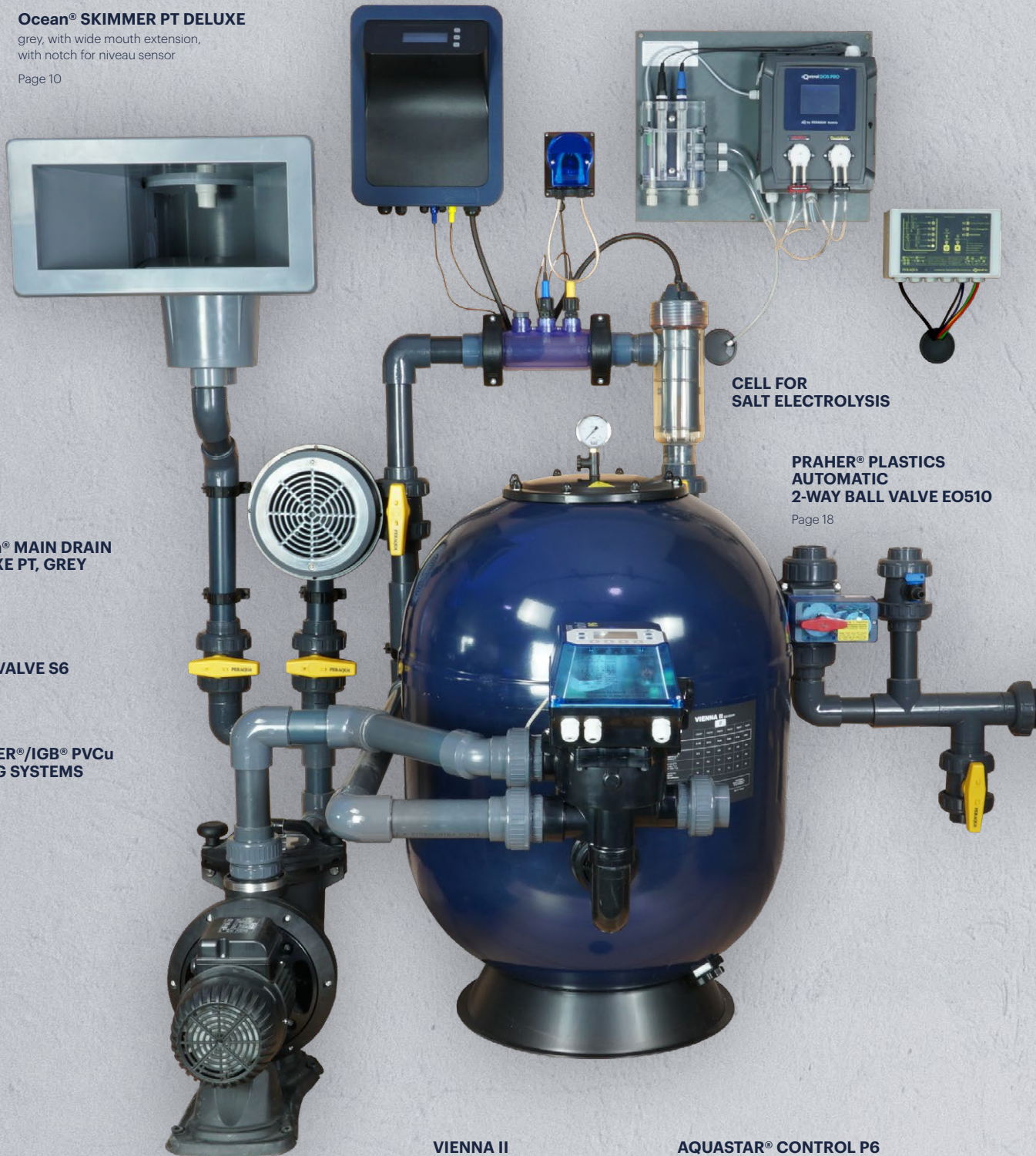
**iQntrol N2
NIVEAU CONTROL**

**SMART INVERTER
HEAT PUMP ECO**

**ADAGIO PRO
UNDER WATER
LIGHT, RGB**
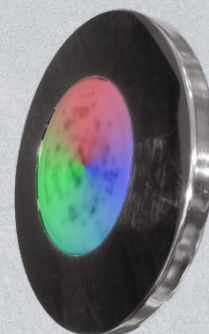
YOUR ALL-IN-ONE POOL
ONE POOL.
ONE SYSTEM.
ONE CONTROL.

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.

Heat Pump

Salt Electrolysis

AquaStar control-P6

Drain Valve

Temperature

Filter Pump

Niveau sensor

Lighting
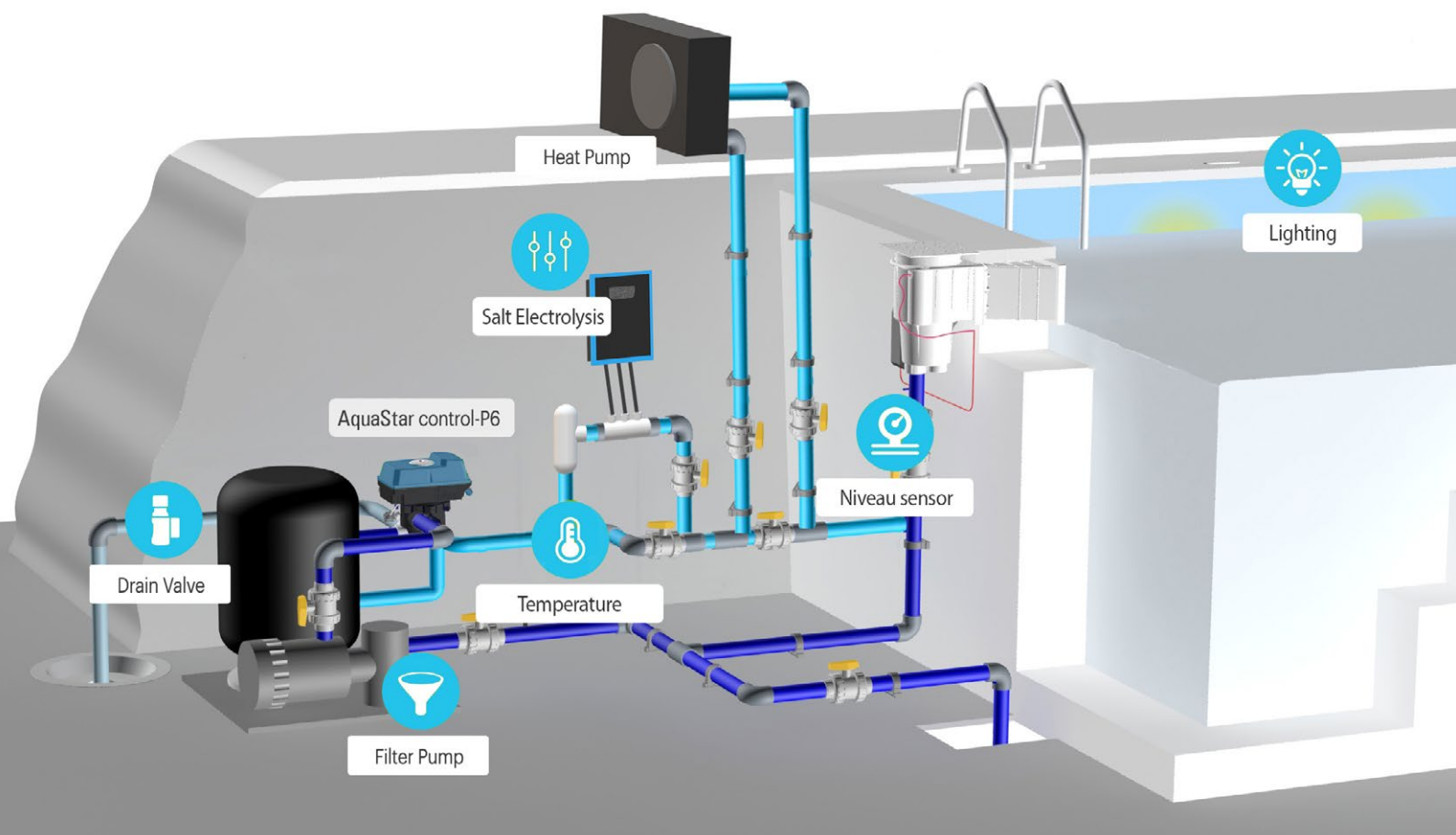
FILTER & FILTER PUMP CONTROL

— Automation of backwash and filter cycles with user-friendly weekly schedule

— Sustainable and energy efficient filtering

NIVEAU CONTROL

— Water level regulation with float switch (skimmer pool) or niveau control N2 (overflow)

— An automatic niveau control offers dry running protection, and protection of the mechanical seal of the filter pump

WATER TEMPERATURE CONTROL

— Heating, cooling or heating & cooling with the inverter heat pump thanks to the inverter technology

— The automatic operation is controlled by a set-point temperature

— The automatic temperature regulation with a Smart inverter heat pump is very energy efficient in comparison with common ON/OFF heat pumps

WATER TREATMENT

— Measuring and automatic control of redox and pH values based on real time data

— Water treatment by salt electrolysis can reduce the use of chemicals. Pure chlorine is produced and pH minus is added only on demand and if necessary. It helps the pool owner to keep the water quality in the pool clean and hygienic for a long time.

UNDER WATER LIGHTS

— The RGB under water lights can be bundled or controlled with additional transformers

— Due to innovative technology such as QuickConnect™, PressFit™ or ClickOn™ they can be easily built in and installed

— Colour scenario change with automatic time control

AUTOMATIC FILTER 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 controls 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**

FEATURES

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.

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

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.

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 VIENNA II

Filter for private pools, produced according to industrial standards, reinforced fibre glass filter tank,UV resistant, filter with transparent lid in RAL5015, filter with black lid in RAL5011, filter lid d21 cm, pivotable filter arm for easy filling with filter media, drain set for quick filter drainage, integrated aerating to avoid air bubbles in the filter.

Operation pressure: 0-1,5 bar | operation temperature: max. 40 °C

Optionally venting with Praher® S4 laboratory ball valve

With transparent or black lid

Big drain valve for fast drainage

All VIENNA II Filter with black lid in colour steel blue RAL5011

FILTER VIENNA II	Prod.No. 7300500 Ø 400, 1½" 6-way valve, side mount	Prod.No. 7300501 Ø 510, 1½" 6-way valve, side mount	Prod.No. 7300502 Ø 620, 1½" 6-way valve, side mount	Prod.No. 7300503 Ø 680, 2" 6-way valve, side mount	Prod.No. 7300504 Ø 750, 2" 6-way valve, side mount	Prod.No. 7300505 Ø 900, 2" 6-way valve, side mount
AQUASTAR® CONTROL P6	Prod.No. 131492 ND 1, 1½" + 2", 24V AC/DC	Prod.No. 131493 ND 1, 1½" + 2", 100-240 VAC	DRAINAGE SET	Prod.No. 7300853 drain valve with hose connection		

AUTOMATIC NIVEAU CONTROL
AQUASTAR® Control P6

An automatic niveau control in the pool offers a secure overfill 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 conntected 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 overfill protection with time control.
- Status of water level displayed: „OK"/ „Filling" / „Error ".
- Valve position displayed.

NIVEAU CONTROL IN OVERFLOW POOLS

For the niveau control in overflow pools the iQntrol-N2 control for splash tanks is electrically connected to the Aquastar® Control P6 and integrated into the system. In this case the magnetic valve is connected and controlled via the iQntrol-N2 for the water replenishment.

The micro processor splash tank control has intelligent functions such as monitoring of probes and filling time as well as power saving function for the filter pump. All outputs are potential free changeover contacts and therefore suitable for any pool controls.

FEATURES NIVEAU CONTROL

- Automatic niveau control:
  In case water level is too low the valve opens for refilling
  In case water level is too high the pump is switched on for a certain time period
- Adjustable time at too high water level in automatic mode.
- Water level controllable via LEDs*.
- Status of water level controllable via LEDs.
- Status of magnetic valves (open/closed) displayed.
- Max. filling time (overfilling protection) adjustable (within last 24 hours).
- „Manual operation" is possible for all 3 relays for testing.
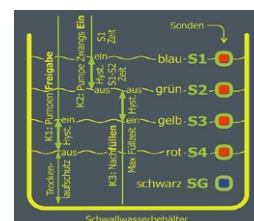
*Status of water level controllable via LEDs

FLOAT SWITCH	Prod.No. 31150 mit 5m cable	Prod.No. 31152 with 15m cable	MAGNETIC VALVE	Prod.No. 7300699 ½" magnetic valve made of brass, for N2	Prod.No. 7300700 ¾"magnetic valve made of brass, for N2	Prod.No. 50631 2/2-way 24V DC Magnetic valve, for P6
iQntrol-N2 CONTROL	Prod.No. 7300681 niveau control compensation tank		PROBE SET	Prod.No. 7300682 probes with each 5m cable, for N2		

AUTOMATIC WATER TREATMENT
iQntrol SALT-PRO

For the salt electrolysis the pool water is
replenished with suitable commercial salt (NaCl – sodium chloride), such as Smart sea salt by Peraqua®. Inside of the salt electrolysis cell the electrolysis is triggered by current flow, which separates the salt to free chlorine. The developed free chlorine destroys micro organisms and is a very effective disinfectant alternative to liquid chlorine.

The use of Ph-/Redox set and flow monitor offers an automatic monitoring of all water values in real time data.
Connection scheme in the manual.

The optimal operation of the salt water chlorination is based on the correct adjustment of chlorine production per hour (filter time) depending on the pool size. The salinity for optimal disinfection of the pool water is between 4-6 g/l, the pH value should be from 7,0 to 7,4. For the first operation we recommend 5 kg salt per m³ and a redox value of 700 mV. Depending on the the chlorine content of the pool water the redox value should be raised or reduced.

IMPORTANT
THE SALT ELECTROLYSIS
MAY ONLY BE ACTIVE AT
THE SAME TIME WITH
THE FILTER PUMP

FEATURES

UPGRADING
PH & REDOX SET

- Operation mode „manual" or „automatic".
- Production set point of 0 - 100% adjustable.
- Production actual value displayed (Volt / Ampere).
- Automatic operation:
  Salt electrolysis is on when the filter pump is on.
  For operation mode „automatic" redox is decisive. In case the redox actual value gets close to the redox set point the set production level is reduced. When the redox set point is reached the salt electrolysis is stopped.
- Cleaning cycle for the number of polarity reversal adjustable:
  recommendation 4 hours (set)
- Status of the salt electrolysis displayed.
- pH- and redox set point (and ppm value) adjustable and the actual value displayed.
- In case of manual operation the set point is decisive.

SWIMMING POOL SIZE M³

FILTRATION TIME H		25	50	75	100	125	150	175	200
	4	15 g/h	25 g/h						
	6	10 g/h	20 g/h	25 g/h	35 g/h				
	8	10 g/h	15 g/h	20 g/h	25 g/h	35 g/h	35 g/h		
	10			15 g/h	20 g/h	25 g/h	35 g/h	35 g/h	
	12				20 g/h	25 g/h	25 g/h	35 g/h	35 g/h

If the water regularly exceeds the 28 ° C water temperature, select a higher production level than indicated in the table.

iQntrol SALT-PRO	**Prod.No. 7300560** 10g Cl/h, pool size up to 25 m³	**Prod.No. 7300561** 15g Cl/h, Pool size up to 50 m³	**Prod.No. 7300562** 20g Cl/h, Pool size up to 75 m³	**Prod.No. 7300563** 25g Cl/h, Pool size up to 100 m³	**Prod.No. 7300564** 35g Cl/h, Pool size up to 125 m³
ACCESSORIES	**Prod.No. 7300605** pH set incl. sensor and pump	**Prod.No. 7300604** redox sensor incl. sensor holder	**Prod.No. 7300602** flow meter sensor	**Prod.No. 7300857** transparent electrolde holder	

AUTOMATIC
TEMPERATURE CONTROL
INVERTER ECO

Smart inverter heat pumps ECO are equipped with compressors, working in three speeds. The speed is raised or reduced depending on energy consumption and ambient conditions – the full inverter heat pump ECO is not working on a fixed frequency – in comparison to common heat pumps – and therefore is very energy efficient.

— Thanks to the flow monitoring the heat pump is activated when the filter pump is on and a flow is registrated.

— The heat pump is connected to the power supply.

— It is important that the heat pump has its own fuse.

— For use of a heat pump a pool cover and a well isolated pool is recommended.

— The heat pump size is calculated depending on the pool size. But it is possible to operate a larger and stronger model at low speed. This means higher energy saving and low sound level. Due to the better performance a larger model is extending the bathing season.

— Optionally, integrated WLAN connection for the control via mobile devices.

Model	7300704	7300706	7300707	7300708	7300709
Recommended pool size (m³)*	15-30	20-35	30-50	35-65	45-80
Opteration temperature (°C)			0-43		
Operation conditions: Air 26°C, Water 26°C, Humidity 80%					
Heat capacity (kW)	6,5	9,0	12,5	16,0	20,0
C.O.P	10.3-6.6	10.6-6.8	11.6-7.0	11.2-7.1	11.8-6.5
COP at 50% capacity	9,3	9,6	10,1	9,7	10,2
Operation conditions: Air 15°C, Water 26°C, Humidity 70%					
Heat capacity (kW)	5,0	6,3	8,5	11,0	14,0
C.O.P	6.0-4.8	6.1-4.5	6.3-4.8	6.4-4.7	6.5-4.6
COP at 50% capacity	5,8	5,7	6,1	5,9	6,1
Operation conditions: Air 35°C,Water 28°C, Humidity 80%					
Cooling capacity (kW)	2,5	3,1	4,6	5,6	7,8
Sound level 1m dB(A)	38.8-50.2	40.6-52.5	42.9-53.0	45.2-56.3	45.3-57.1
Sound level at 10m dB(A)	18.8-30.2	20.6-32.5	22.9-33.0	25.2-36.3	25.3-37.1
Sound level at 50% speed 1m dB(A)	42,8	45,8	48,5	48,7	49,6
Heat Exchanger			Titanium		
Power supply			230V/1 Ph/50Hz		
Rated input power at 15°C (kW)	0.29-1.04	0.36-1.40	0.47-1.78	0.59-2.34	0.75-3.04
Rated current at 15°C (A)	1.26-4.52	1.57-6.09	2.02-7.74	2.52-10.17	3.26-13.21
Recommended flow (m³/h)	2-4	3-4	4-6	6.5-8.5	8-10

CABLE SPECIFICATION

Prod.No.	7300704	7300706	7300707	7300708	7300709
Fuse A	8,0	9,5	15,0	20,5	23,5
Power corde mm²	3 x 1,5	3 x 1,5	3 x 2,5	3 x 4	3 x 6
Signal cable mm²	3 x 0,5	3 x 0,5	3 x 0,5	3 x 0,5	3 x 0,5

IMPORTANT
KEEP DISTANCE

500mm
700mm
2500mm
700mm
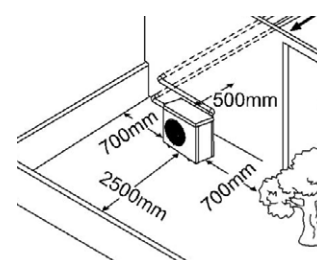
FEATURES

- 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.

The given values are valid at ideal conditions: Pool is covered with an isothermal cover, filter system is active min. 15 hours/day, slight deviation possible depending on whole system, subject to technical changes.

INVERTER ECO	**Prod.No. 7300704**	**Prod.No. 7300706**	**Prod.No. 7300707**	**Prod.No. 7300708**	**Prod.No. 7300709**
	6,5 kW, Pool size up to 30 m³	9,0 kW, Pool size up to 35 m³	12,5 kW, Pool size up to 50 m³	16,0 kW, Pool size up to 65 m³	20,0 kW, Pool size up to 80 m³

FILTER PUMP CONTROL
SMART EUROPRO

The EUROPRO swimming pool pump is a self-priming high performance centrifugal pump with integrated pre-filter, is 100% reliable thanks to corrosion-free components. The EUROPRO also distinguishes by low noise emmission.

The EUROPRO pump is connected to a 220-240V power supply. The swimming pool pump is connected to the Aquastar® Control P6 by a 13/14 contacts.
ATTENTION: with a 13/14 contact 8 A MUST NOT BE exceeded. In case it is exceeded, the pump has to be installed via a relay.

FEATURES

- The operation cycles of the pump are regulated with Aquastar® Control P6 weekly plan.
  At valve position „filter" and „backwash" the pump is activated automatically.
- The pump-off delay can be adjusted with the Aquastar®. This function helps to use the residual heat of a heat exchanger.
- Heating hysteresis adjustable: used for deviation of the set temperature.
  The higher the hysteresis, the higher the temperature deviation may be.
- Connected to the Aquastar® control-P6, the filter pump can also be activated manually
- Operation times for automatic operation adjustable.

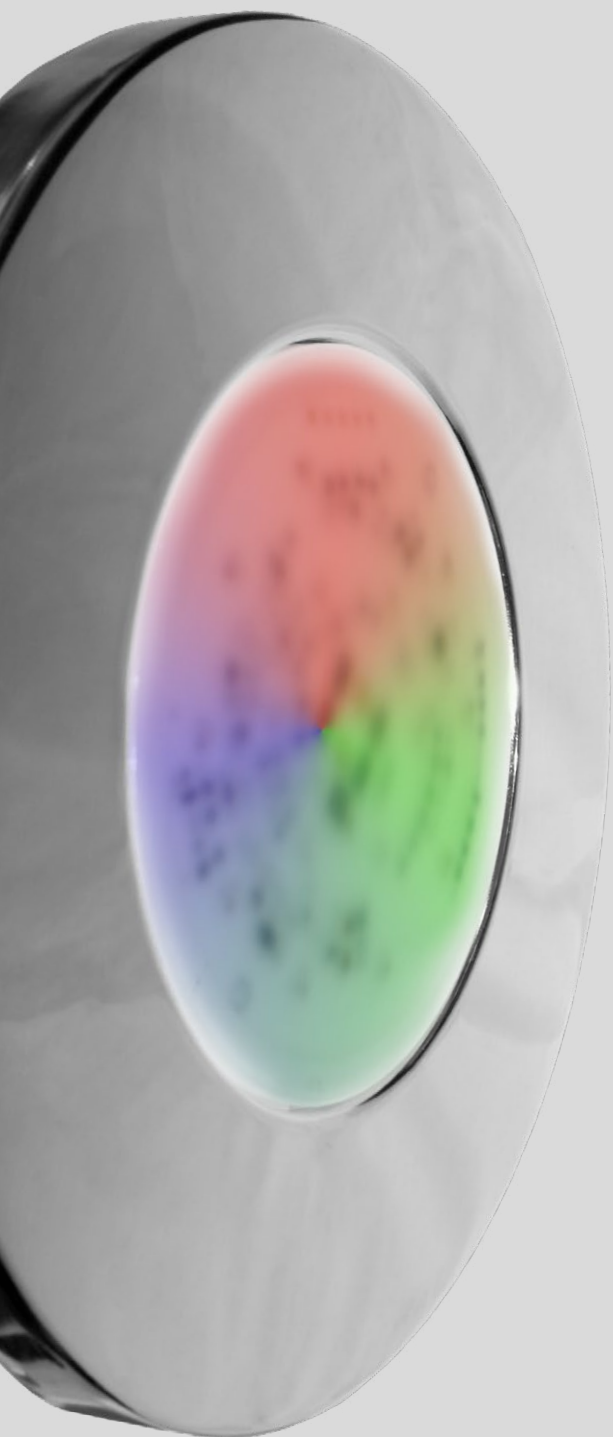| PUMP EUROPRO	Prod.No. 7300446 Europro 50M 0,33 kW - 0,5 PS	Prod.No. 7300447 Europro 75M 0,5 kW - 0,75 PS	Prod.No. 7300448 Europro 100M 0,75 kW - 1 PS	Prod.No. 7300449 Europro 150M 1,1 kW - 1,5 PS	Prod.No. 7300450 Europro 200M 1,5 kW - 2 PS	Prod.No. 7300451 Europro 300M 2,2 kW - 3 PS

AUTOMATIC POOL LIGHTING
ADAGIO PRO

<50.000 HOURS LIFE SPAN
3.000LM 75W
5/10/17 MM DIAMETER
RGB SPECTRUM
DIMMABLE

The Adagio LED solutions are designed for easy handling and economic operation.
An easy to install plug with golden contacts for uncomplicated connection.
An adjustable light mounting system that allow pool lights to be fitted seamlessly to the wall, even if the wall conduits have not been mounted 100% vertically.

According to the pool size and the individual requirements the Adagios are available in the dimensions 5, 10 or 17 cm diameter and can be specifically mounted in 1½" IG wall conduits.

Thanks to the possibility to retrofit your pool with Adagio pool lights and covers the Adagio under water lights can be installed in every pool.

The under water lights are controlled with the DMX compatible Adagio Pro remote control.

ADAGIO PRO UNDER WATER LIGHTING	Prod.No. 75214	Prod.No. 75215	Prod.No. 75216	Prod.No. 7400294
	D17 cm, RGB, 3.000 lm, 75 W	D10 cm, RGB, 1.700 lm, 45 W	D5 cm, RGB, 400 lm, 10 W	Adagio Pro DMX control, 350 VA

Matching covers in V4A or plastic in various colours for all sizes available.

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 ball valve S6 distinguishes by 100% proven quality for the safety of systems.
The 2-way ball valve S6 is available in all common connection types with ball seating ring made of PTFE or PE. Praher Plastics® ball valves have best flow characteristics.

AUTOMATIC BALL VALVE S6

The Praher Plastics® ball valve EO510 is automatically controlled by the Auastar® control-P6. In the iQmfort system the ball valve S6 is installed onto the drainage and is automatically opened during the back, rinse and drain process. This avoids water loss during the repositioning of the backwash valve or in position "wintering".
The automatic ball valve S6 is available in various sizes (standard in d50 and d63) and in variants 12-24 V AC/DC und 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.
But we only delivery technical documentation for products the presented products and offer warranty protection according to our general sales 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

PERAQUA®

shop.peraqua.com

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