PERAQUA

Qmfort

100% 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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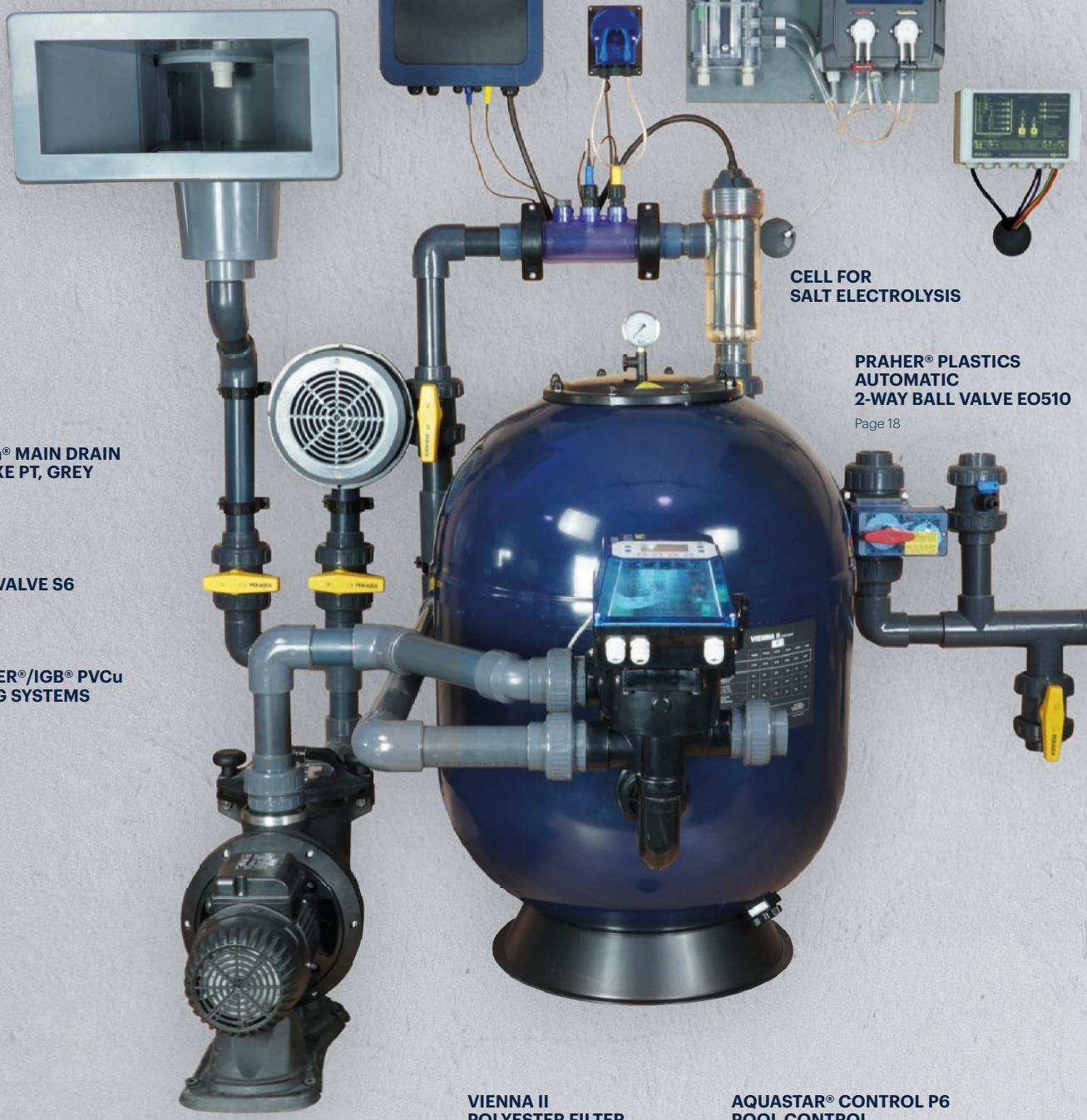

iQntrol SALT-PRO
SALT ELECTROLYSIS
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iQntrol DOS-PRO
DOSING SYSTEM
Alternative for salt electrolysis

Ocean® SKIMMER PT DELUXE
grey, with wide mouth extension,
with notch for niveau sensor
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CELL FOR
SALT ELECTROLYSIS

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AUTOMATIC
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Ocean® MAIN DRAIN
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2 WAY
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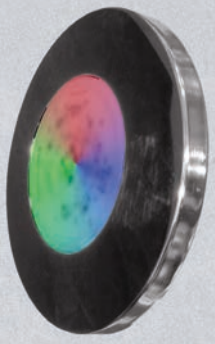

ADAGIO PRO
UNDER WATER
LIGHT, RGB

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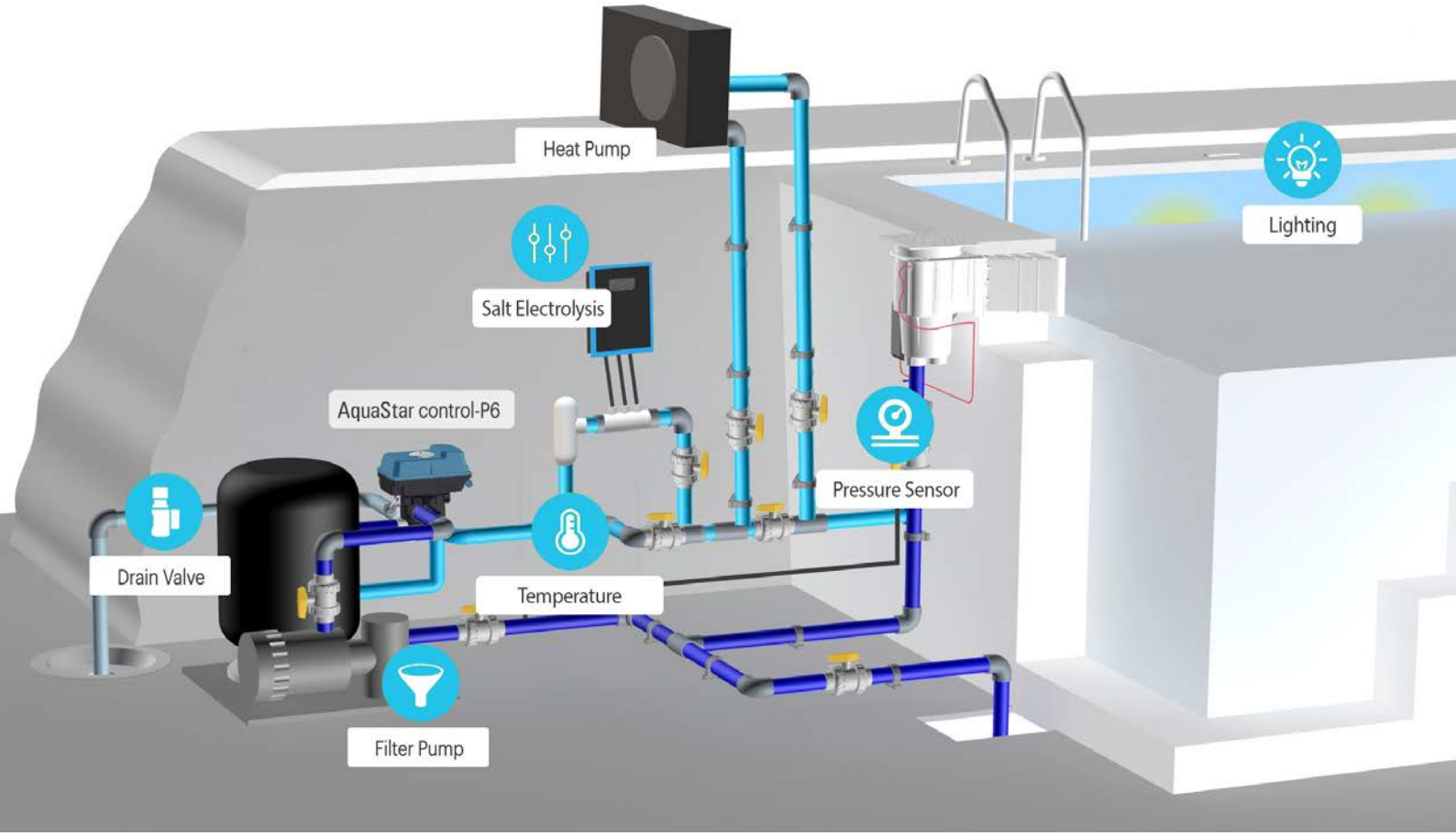
YOUR ALL-IN-ONE POOL

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.



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

— Automatic dosing and measuring of salinity, redox and pH values in real time

— Water treatment by salt electrolysis can reduce use of chemicals. It is only added 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.

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 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

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

Optionally venting with Praher® S4 laboratory ball valve

With transparent or black lid

Big drain valve for fast drainage

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 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 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.

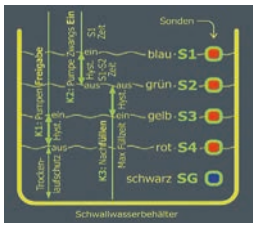
NIVEAU CONTROL IN OVERFLOW POOLS

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, salinity sensor and flow monitor offers an automatic monitoring of all water values in real time data.
With the salinity sensor you can gauge the salinity g/l and the water temperature. 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

UPGRADING
PH & REDOX SET

FEATURES

- 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.
- Salinity concentration and water temperature give information on water condition (in case of integration of salinity and temperature sensor).
- 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. 7300608** salinity sensor	**Prod.No. 7300602** flow meter sensor	**Prod.No. 7300857** transparent electrolde holder

AUTOMATIC TEMPERATURE CONTROL
INVERTER ECO

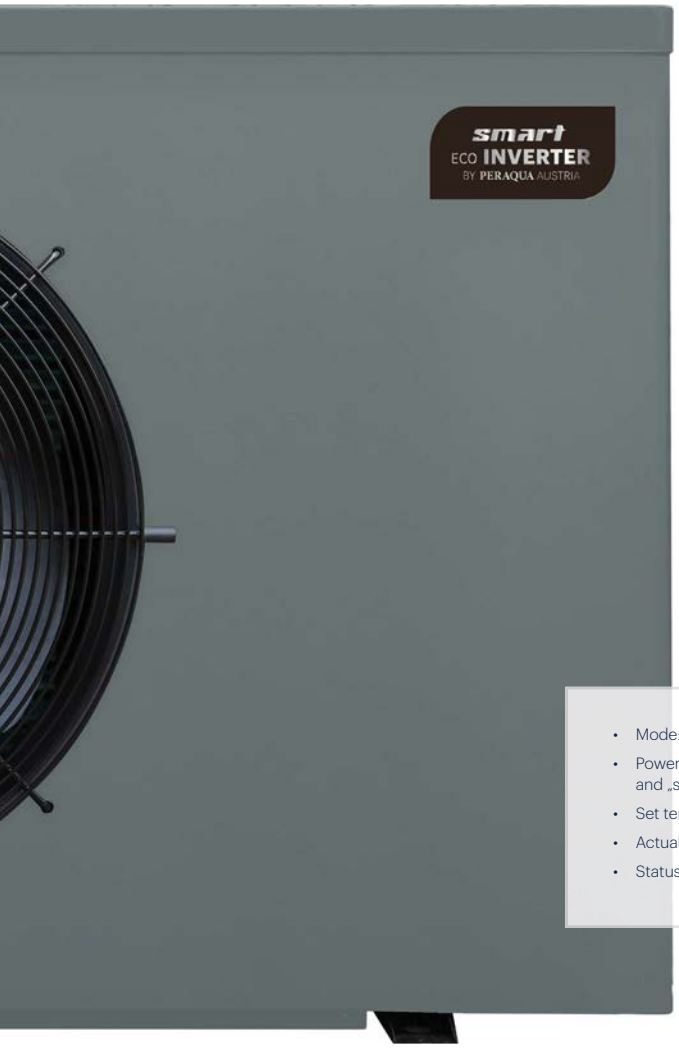
Smart inverter heat pumps ECO are equipped with compressors, working in three speeds. The speed is raised or reduced depending on energy consumption and ambient conditions – the full inverter heat pump ECO is not working on a fixed frequency – in comparison to common heat pumps – and therefore is very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

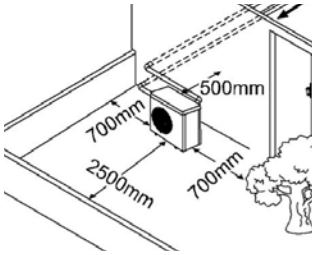
Model	**7300704**	**7300706**	**7300707**	**7300708**	**7300709**
Recommended pool size (m^3)*	15-30	20-35	30-50	35-65	45-80
Opteration temperature (°C)			0-43		
Operation conditions: Air 26°C, Water 26°C, Humidity 80%					
Heat capacity (kW)	6,5	9,0	12,5	16,0	20,0
C.O.P	10.3-6.6	10.6-6.8	11.6-7.0	11.2-7.1	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 (m^3/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



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** 6,5 kW, Pool size up to 30 m³	**Prod.No. 7300706** 9,0 kW, Pool size up to 35 m³	**Prod.No. 7300707** 12,5 kW, Pool size up to 50 m³	**Prod.No. 7300708** 16,0 kW, Pool size up to 65 m³	**Prod.No. 7300709** 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 motor is totally watertight. 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.
- Heating hysteresis adjustable: used for deviation of the set temperature.
  The higher the hysteresis, the higher the temperature deviation may be.
- Pump can also be activated manually.
- Operation times for automatic operation adjustable.
- Dry-running protection by implementation of a pressure sensor.

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** D17 cm, RGB, 3.000 lm, 75 W	**Prod.No. 75215** D10 cm, RGB, 1.700 lm, 45 W	**Prod.No. 75216** D5 cm, RGB, 400 lm, 10 W	**Prod.No. 7400294** 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® Air. In the iQnnect 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 20 x 10 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® offers detailed manuals and connection diagrams for individual components. Please visit http://shop.peraqua.com.

UPGRADING
To realize your iQmfort pool as quick as possible, get in contact with a Peraqua® pool specialist supplier. We would be happy to assist if necessary

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:

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