CONTROLS

20 YEARS ANNIVERSARY
EST. 2005

POOL CONTROLS | TEMPERATURE CONTROLS
WATER LEVEL CONTROL | SOLAR CONTROL

PRAHER PLASTICS

AQUASTAR®
LOXONE
SMART HOME
READY

AUSTRIA
SURPRISINGLY INGENIOUS

Loxone Miniserver

Loxone Aquastar® Air
pool control system

FROM THE BACKWASH VALVE TO INTELLIGENT POOL CONTROL

Yes, at first glance the Loxone Aquastar® Air disguises itself as a 6-way valve with a valve head for automating the filter process. But with the connection to the Loxone® Miniserver the Aquastar® Air turns out to be an intelligent pool control system.

The Loxone Aquastar® Air is a fully automatic and intelligent pool controller for Loxone smart home systems. It is equipped with numerous interfaces for comprehensive pool control and thus enables the control of numerous functions:

» Filter & filter pump control

» Level control

» Regulation of the water temperature

» Water treatment

» Underwater lighting

» and much more.

LOXONE AQUASTAR® AIR

» Intelligent 6-way backwash valve for automated pool control with the Loxone Smart Home System
It automates filter and backwash times and offers expansion options for complete pool control, opening up numerous application possibilities, as smart home and smart pool functions can be combined and used together

» For valve sizes 1½" and 2", can be retrofitted to all known filter brands using 1½" and 2" Praher Side Mount or Top Mount valve incl. Praher ABS pipework and fittings for quick and easy installation

» Features:
Optical position indicator, manual override, best flow values, low pressure loss, above-average service life

» Interfaces:
1-Wire input for connecting 1-Wire temperature sensors, 1 analogue input 0.5 - 5V (e.g. for filter pressure monitoring), 1 analogue input 0 - 10V (e.g. for pressure sensors for level control)3 relays 250VAC 5A for free use, Loxone® Air technology for wireless connection to the Loxone® Miniserver, direct pump connection (250V AC, 8A), direct connection for 2- or 3-way EO510 electric ball valve (e.g. sewer pipe)

» Free updates by Loxone Miniserver, free visualisation by Loxone® Miniserver via iPhone, iPad and Android

» Electric drive 100 - 240V AC

» IP65 protection class

Smart backwashing with Loxone AQUASTAR® Air

WLAN CONNECTION + SMART PHONE APPLICATION + LOXONE MINI SERVER

AQUASTAR® Air extensions

The Aquastar® Air can be used to control the filter and backwash times. It can also be used to regulate the water level and pool temperature.

+ PRESSURE SENSOR
for automatic backwashing with pressure increase
(not included in the scope of delivery)

+ PRESSURE SENSOR
for level regulation
overflow equalisation tank
(not included in the scope of delivery)

+ TEMPERATURE SENSOR

iQnnect pool system with AQUASTAR® Air

Additional integration of underwater lighting (controllable and dimmable), heat pump, filter pump, salt electrolysis and dosing systems by means of extensions.

+ LOXONE MODBUS*
Control and integration of Peraqua water treatment systems and heat pumps

+ LOXONE DMX*
Control and integration of VISION underwater lighting

+ LOXONE AO
Integration of Smart & Ocean® swimming pool pumps

iQnnect SMART POOL

The Aquastar® Air is part of the iQnnect system from Peraqua®. iQnnect is the combination of intelligent networked pool technology from the Peraqua® product range. With the aim of being able to operate a fully automatic, safe and sustainable pool system via a smart end device, iQnnect from Peraqua® creates 100% added value in daily pool operation.

The pool technology functions can be operated manually or automatically via the app. With the automatic designer, various functions can be made dependent on each other or different modes can be generated.

AQUASTAR® CONTROL

» Fully automatic control of the filtration processes via digital display, in addition to time & pressure-dependent backwash triggering, pump control, temperature or solar control and level control can also be realised

» Can be programmed according to individual requirements

» For valve sizes 1½", 2" and 3", can be retrofitted to all known filter brands using Praher Side Mount or Top Mount valve incl. Praher ABS pipework and fittings for quick and easy installation

» Features:
Optical position indicator, manual override, best flow values, low pressure loss, Above-average service life

» Multi-range operating voltage (100-240 VAC 50-60 Hz/150-300VDC or 24 V AC/DC)

» Interfaces:
Freely configurable relays and digital inputs, 3 digital 1-wire sensors

» Real RTC with 10 year battery

» IP65 protection class

Backwash valve AQUASTAR® Control

	INTEGRATED DIGITAL CLOCK	+	INTEGRATED PRESSURE SWITCH	+	HEATING CONTROL LEVEL CONTROL PUMP CONTROL

The new functions combined in one device provide a perfect overview, even more application security and customised control as required.

BACKWASH RELEASE
A backwash is triggered depending on time and pressure. Digital inputs also enable control via external control units. With the new display, the backwash can also be triggered via the menu.
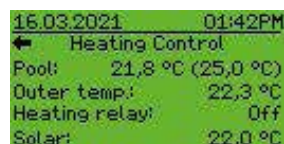
PUMP CONTROL
The new Aquastar® Control regulates the filter times fully automatically, which can be set via the menu. The valve disc rises when the valve Changes position. The pump is automatically switched off to depressurise the valve disc.
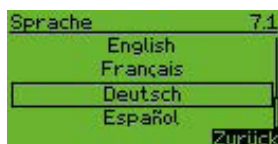
TEMPERATURE OR SOLAR CONTROL
The „heating" relay can be used to switch off a heating system before the pump is switched off. Up to 3 digital 1-Wire sensors can be connected: Heating control with pool sensor, solar control with additional solar sensor and outdoor temperature display
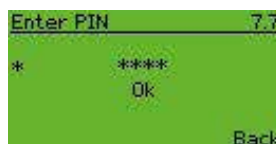
LEVEL CONTROL
The float switch can be connected to skimmer pools via a digital input. If the water level in the pool is too low, water is automatically topped up. The top-up is monitored using a filling time monitor.
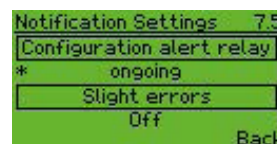
Perfect overview: automatic display of all parameters in status screeen

Multilingual available in German, English, French and Spanish

PIN-protected Secure System only allows authorised users to make changes

Innovative alert system: Permanent monitoring, error message and automatic emergency stop if necessary

iQmfort
POOL AUTOMATION

The centre of the iQmfort pool is the Aquastar® Control, which can be used to centrally control many functions of the entire Peraqua® pool technology. Good, networked control technology for the pool saves the pool owner a lot of time, is energy-efficient and contributes to sustainable operation. With the right pool technology, there are many options for automation.

iQntrol POOL CONTROLS

iQntrol-**P5** – the ALL-ROUNDER

» Filter control

» Heating control

» Solar control

» Backwash control

» Level control

The P5 is a universal swimming pool control unit that provides all the control and regulation technology required for a modern swimming pool. The control unit is suitable for all standard filter pumps and backwash valves. It has been developed for easy installation and is preset with standard operating values. An info button shows whether it has been switched on by the level controller, the timer or the heating.
The P5 offers optional remote maintenance via KNX. Error messages (including error description) are sent by SMS.

FEATURES

400 V or 230 V filter system, optional remote maintenance, ASCII interface to bus systems, SMS alerting in the event of system errors, whirlpool operation, oxygen disinfection, universal inputs/outputs, energy-saving function, utilisation of synergies for resource-saving intelligent control, splash-proof, info button for viewing the current status, clock with 10-year power reserve, and much more.

Also available in various backwash sets.

iQntrol-**P4**

» Filter control

» Heating control

» Solar control

» Backwash control

The modular, splash-proof filter control unit with automatic backwash works with IP65 microprocessors. A heating controller can be fitted to the P4 filter control unit on the front panel via a relay. This makes subsequent retrofitting particularly easy.

The electronic motor protection offers particular safety. It automatically adjusts itself correctly during installation and recognises defective relays thanks to its processor intelligence.

FEATURES

for 400 V or 230 V pump with automatic backwash, optional remote maintenance via cable or modem, SMS alert in the event of system faults, directly connectable piston valves for filter flushing, universal inlet, waterresistant housing

REMOTE CONTROLLER FOR iQntrol-P5 AND iQntrol-P4

With this remote control unit, the P5 and P4 control units can be conveniently operated from home, for example.
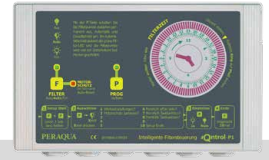
iQntrol-P3	Item No. 7300666, 7300667	iQntrol-P2	Item No. 7300664, 7300665	iQntrol-P1	Item No. 7300662, 7300663

» Filter control	» Filter control	» Filter control
» Solar heating control	» Heating control	

These three types have been specially developed to regulate the pool temperature via the filter control. The basic model is the simple, intelligent iQntrol-P1 filter control unit.

Thanks to state-of-the-art microprocessor technology, the control unit requires few components and thus offers practical functions through complex technology.

The pool temperature is regulated using a large rotary knob. With the P3 filter control unit, the differential temperature can also be set.

FEATURES

Large rotary knob for setting the maximum pool temperature, manual on protection, residual heat overrun, simple operation with just 2 buttons, LEDs indicate the operating status of the filter, heater and motor protection, space-saving housing with pre-installed cable glands, intelligent self-adjusting motor protection with relay monitoring and automatic reset for maximum safety

LEVEL AND TEMPERATURE CONTROL

iQntrol

iQntrol-N2	Art. Nr. 7300681	iQntrol-N1	Item No. 7300676

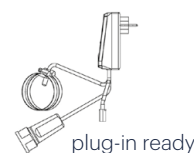|	
» Surge tank control	» Level control with off, automatic and test switch
Microprocessor splash water control for swimming pools with overflow edge. Works together with the iQntrol-N2 probe set, for example. Includes intelligent functions such as probe monitoring and filling time monitoring and power saving function for the filter pump. All outputs are potential-free changeover contacts, therefore suitable for any pool control system. Potential-free fault signalling output for the control system.	Precise maintenance of the water level, waves are ignored by the electronics and do not cause the refill valve to pulse, direct connection of the contact-free measuring probes, a new measuring method prevents corrosion and calcification of the probe tip, probe delay and sensitivity for particularly soft/salty water can be adjusted, signal lamps show whether the device is working, the probe is in contact with water or the valve is filling.

PRAHER PLASTICS

Water Level Control NC01	Item No. 130293

ready to plug in, with time delay switch, which can be set from 2 - 135 sec, including float probe for easy installation in Ocean® Skimmer M5 and PT, as it is equipped with an integrated and height-adjustable holder for the float.

plug-in ready   holder for float probe

SOLAR CONTROLS

iQntrol

iQntrol-S2	Item No. 7300675	iQntrol-S1	Item No. 7300674
» Solar control with large digital display		» Solar control with manual setting Tmax. (20-40 °C) and Tdiff	

These control units are housed in a service-friendly plug-in housing. The mounting base with its screw terminals is mounted on the wall or snapped onto a top-hat rail. Two potential-free changeover contacts enable simple control of the pump and a motorised or solenoid valve.
Setting ranges are 1 °C to 12 °C for the differential temperature and 20°C to 40°C for the maximum temperature limit.

PRAHER PLASTICS

Solar control unit SC01 with 2-way ball valve
Item No. 129635 (d50), 129336 (d63)

Solar control unit SC01 with 3-way ball valve
Item No. 129637 (d50), 129638 (d63)

Consisting of an original Praher® 2-way or 3-way PVC ball valve with EO510 electric actuator and a compact plug-in control unit with which the desired pool water temperature (+20 °C to +40 °C) can be set manually

» Features:
Cold water temperature sensor with 3 m connection cable, hot water temperature sensor with 10 m connection cable, IND 12-24 V AC/DC (DN40/d50 or DN50/d63), integrated pressure equalisation hole in the ball, manual override, IP54 protection class, CE marking, visual position indicator

PRAHER PLASTICS

Solar control unit SC02
Item No. 120848

Consisting of a plug-in and compact (DIN standard) control unit with which the desired pool water temperature can be set.

Integrated „solar pump connection" 230V for direct control, digital display, cooling function always ensures the set pool water temperature when the pool water temperature rises (indicated by „red flashing LEDs"), setting for temperature difference between pool and collector of +2 to +20 °C, simple conversion from „°C" to „°F" 1x cold water temperature sensor with 3 m connection cable, hot water temperature sensor with 10 m connection cable, which can be installed in the pipework downstream of the skimmer or on the solar collector

The SC02 solar control units are primarily used for solar heating systems in the private pool sector and serve to significantly extend swimming season.

Solar control unit SC04 with 3-way ball valve
Item No. 126566A (2-W), 126564A (3-W)

ECONOMICAL AND EFFICIENT 2- AND 3-WAY PVC FITTING WITH INTEGRATED SOLAR CONTROL

The SC04 can be easily integrated into the hose pipework for above-ground pools using hose nozzles (optional) or directly onto Ocean® V6 (installation drawings on request).

With this compact solar control unit, all the necessary functions are integrated in the EO510 electric actuator housing: Setting the desired pool water temperature from +20 °C to +40 °C 1x cold water temperature sensor with 3 m connection cable, 1X hot water temperature sensor with 10 m connection cable, which can be installed in the pipework downstream of the skimmer or on the solar collector, 2-/3-way Praher PVC ball valves DN40/d50 or DN50/d63 with EO510 230V with integrated pressure equalisation hole in the ball (3-way), manual override, IP54 protection class, CE marking, visual position indicator.

SOLAR ENERGY FOR THE POOL

In our B2B online shop at shop.peraqua.com, we also stock matching PE solar absorbers with various connection pieces and/or integrated collector pipe. We therefore offer everything you need for complete solar equipment for the pool.

PERAQUA®

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