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GRANUDOS TOUCH.

SIMPLY GENIUS.



GRANUDOS 45/100-CPR TOUCH XL

FUNCTION DESCRIPTION

Dosing station for calcium hypochlorite and acid completely with autocontrol system CPR Touch XL for free chlorine, pH-value, redox and temperature. For the disinfection and pH-regulation of swimming pool water. Chlorine dosing directly from the chemical drum. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately at intervals to the dissolving system from where the chlorine solution is conveyed by a venturi nozzle to the pool water. The dosing of the chemicals is controlled directly by the integrated autocontrol system. The booster pump of the GRANUDOS works also as metering water pump. The metering water is returned into the cycle via the dissolving system. The autocontrol system is mounted well accessible at the unit.

SCOPE OF DELIVERY

Vertical support: Rotating drum carrier steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt

Chlorine dosing: Dosing hopper to be screwed on the chemical drum. Dosing motor, dosing screw, knocker to support the dosing. Capacitive switch for empty monitoring of the drum

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1.2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring of the flushing tank

Control techniques:

- Coloured 7" Touch-Graphic display to indicate the current data and status of the unit
- Faults and alarms are illustrated by self-explaining icons
- All control parameters are adjustable to ensure optimal pool conditions
- Integrated test programmes for all functions
- Proportional control characteristic to ensure compliance with the selected set points
- Start-up automatic with pH preference dosing
- Input for external release, shock chlorination and ECO mode
- Alarm relay with non-volt changeover contact
- Operation languages: German and English

Interface: Modbus TCP, USB for data export

Remote indication: The measuring values, the current status, faults and alarms can be remote indicated by every browser driven device (e.g. computer or smartphone)

Measuring cell

- Compact acrylic glass block to take the electrodes, flow regulator and sample water valve. Pressure resistant design for measuring water recirculation
- pH-electrode with high reliability reference system
- REDOX electrode with large and self-cleaning platinum round plate
- Free chlorine electrode consisting of: large and self-cleaning surface round gold plate and counter electrode with reference system Ag/AgCl
- Temperature sensor for temperature measurement
- Sample water valve

TECHNICAL DATA

Electrical supply	**230 V/AC 50 Hz**
Power supply	**0.33 kW**
Water supply	**DN25**
Water outlet to injection point	**DN20**
Measures	**W 60 cm x D 70 cm x H 180 cm**
Weight	**app. 55 kg**
Dosing performance chlorine	**GR45: 2 kg/h**
	GR100: 4 kg/h
Dosing performance acid	**3 l/h**
Pre-pressure min.	**0.2 bar**
Back-pressure max.	**1.2 bar**

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Overflow/drain in the plants room

ACCESSORIES / OPTIONS

- Drum lifter for 50 kg-drums