



GRANUDOS 45/100-CPR TOUCH XL

FUNCTION DESCRIPTION

Dosing station for calcium hypochlorite and acid completely with autocontrol system for free chlorine, pH-value, redox and temperature. For the disinfection and the pH-regulation of swimming pool water.

Chlorine dosing directly from the chlorine 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 in 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 auto-control 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 $\frac{3}{8}$ " 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 in 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
- Measuring value- and event storage (data logging)
- **Interface:** Modbus TCP, USB for data export
- **Remote indication & access via browser driven devices** (e.g. tablet or smartphone, not incl.): Indication of the measuring values, current operational states, errors and alarms. Adjustment of the control and operation parameters

Measuring cell:

- Compact acrylic glass block to take the electrodes incl. flow regulator. 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	390 W
Water supply	DN25
Water outlet to injection point	DN20
Measures (W/H/D)	600 x 1800 x 800 mm
Weight	app. 55 kg
Dosing performance chlorine	GR 45: 0,1 - 2 kg/h GR 100: 0,4 - 4 kg/h
Dosing performance acid	3 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain

ACCESSORIES / OPTIONS

- Multihopper
- Dust extraction for dusty chlorine granulate material
- Drum lifter for chlorine drums
- Container GR 150 for very high chlorine demand
- Buffer tank for GRANUDOS-PB function
- Dosing nozzle closure

