

GRANUDOS 45/100-TOUCH-PB

FUNCTION DESCRIPTION

Dosing station for calcium hypochlorite granulate and acid 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 and are dissolved completely. Then the chlorine solution is conveyed by a venturi nozzle to the pool water. Dosing manually or linked to an external control system. All functions are permanently monitored. In parallel to this chlorine supply of the main pool a buffer tank is filled with chlorine solution with an adjustable concentration.

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 in the flushing tank.

Control techniques TOUCH:

Operation and visualisation via coloured 7" Touch-Graphic display. This enables simple and clearly arranged user guidance of the screen. Faults and alarms are illustrated by self-explaining icons. Stepless adjustment of dosing performances chlorine and acid. Relay system to assure dosing of only chlorine or acid or none. Switch-off of the dosing at malfunction. With integrated meter for chlorine consumption and event storage (data logging).

Interface: Modbus TCP, USB for data export.

Remote indication via browser driven devices (e.g. tablet or smartphone, not incl.): Indication of the current operational states, errors and alarms.



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	390 W
Water supply	DN20
Water outlet to injection point	DN20
Measures (W/H/D)	600 x 1500 x 800 mm
Weight	app. 50 kg
Dosing performance chlorine	GR 45: 0,1 - 2 kg/h GR 100: 0,2 - 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, tubing to the injection point / tubing to the buffer tank
- Tubing of the overflow to the drain
- Autocontrol systems to control the dosing of the chemicals

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
- Autocontrol systems

