



GRANUDOS-FLEX-CPR TOUCH XL

FUNCTION DESCRIPTION

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

Chlorine dosing directly from the dosing unit (with 5 kg or 15 kg dosing hopper). 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. The dosing of the chemicals is controlled directly by the integrated autocontrol system. The autocontrol system and the peristaltic pump(s) are mounted well accessible at the unit. All functions are permanently monitored. The system is operated and controlled via a coloured 7" Touch-Graphic display.

The GRANUDOS-FLEX-CPR TOUCH system consists of a basic unit with different booster pumps and additionally a dosing unit with different dosing performances and hopper sizes. Therefore an individual configuration of the systems according to the project requirements is possible.

Various accessory options are available, such as an innovative filling device with a universal adapter.

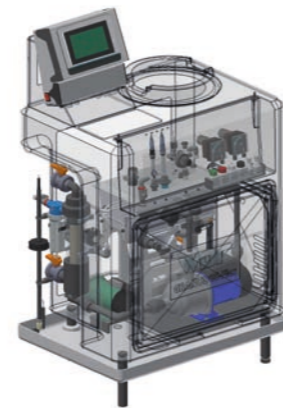


Fig.: GRANUDOS-FLEX-CPR TOUCH XL with dosing unit 5 kg

A GRANUDOS-FLEX SYSTEM

consists of the following components:

BASIC SYSTEM



DOSING UNIT CHLORINE



SCOPE OF DELIVERY BASIC UNIT

Housing:

Solid one part rotational sintered PE grey in a modern design with two service openings with magnetic lockers for an easy and fast access to all single components during maintenance.

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 with additional ball valve for backflush function, flushing tank, booster pump (Lowara oder Calpeda) 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

SCOPE OF DELIVERY DOSING UNIT CHLORINE

- Dosing hopper for chlorine granulate (with 5 kg or 15 kg volume)
- Dosing motor (with 12 rpm or 35 rpm)
- Dosing screw
- Knecker to support the dosing

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	390 W
Water supply	DN25
Water outlet to injection point	DN 20
Measures (W/H/D)	800 x 1300 x 600 mm
Weight	app. 40 kg
Dosing performance chlorine	0,6 kg/h - 2 kg/h
Dosing performance acid	1 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,5 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

- Flocculant dosing
- Dust extraction for dusty chlorine granulate material
- Retention tub
- Front cover
- Buffer tank for GRANUDOS-PB function
- Filling device with universal adapter for 10 kg buckets common in trade. For an easy and dust-free refill of the chlorine granulate



Fig.: Filling device with universal adapter