GRANUDOS-VARIO-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 delivery 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 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.

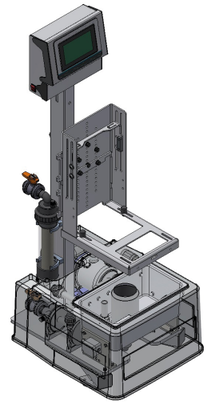
The GRANUDOS-VARIO-CPR-TOUCH-XL system consists of a basic unit with different booster pumps and additionally a dosing unit with different dosing performances and hopper sizes respectively adapters for different chlorine drums. Therefore an individual configuration of the systems according to the project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

Various options such as a multi-hopper or a dust extraction system are available separately.



SCOPE OF DELIVERY OF A COMPLETE PACKAGE

BASIC SYSTEM



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

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve ⅜“ 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.

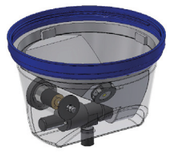
Control techniques:

- 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
- Operation languages: German and English
- 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 - terminal device 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

DOSING UNIT CHLORINE



- Dosing hopper for chlorine granulate (for different-drum types/ chlorine drum must be specified when-ordering)
- Dosing motor (with 35 Upm or 60 Upm)
- Dosing screw
- Knocker to support the dosing
- Capacitive switch for empty monitoring of the drum

DRUM HOLDER



- Drum holder FH3 complete (suitable for all drums except HTH 25 kg/40 kg)

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 1400 x 700 mm
Weight	app. 55 kg
Dosing performance chlorine	GR 45: 0,2 - 2 kg/h GR 100: 0,4 - 4 kg/h
Dosing performance acid	3 l/h
Pre-pressure min.	0,2 bar
Pre-pressure min.	1,2 bar (optional 1,8 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

- 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