GRANUDOS-VARIO-TOUCH

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 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 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.

Optional function:
In parallel to the chlorine supply of the main pool, a buffer tank can be filled with chlorine solution with an adjustable concentration to supply further pools with chlorine via dosing pumps.

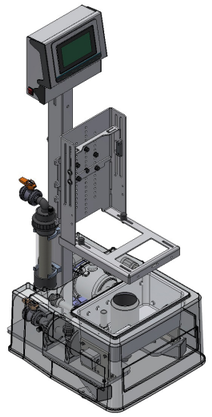
The GRANUDOS-VARIO-TOUCH system consists of a basic unit with different booster pumps and additionally a dosing unit with different dosing performances and hopper sizes respectively adapters for different chlorine drums. Therefore an individual configuration of the systems according to the project requirements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



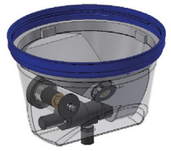
Vertical support: Rotating drum carrier steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

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 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.

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	DN20
Water outlet to injection point	DN20
Measures (W/H/D)	600 x 1400 x 700 mm
Weight	app. 50 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
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
- Autocontrol system 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



Fig.: Multihopper