GRANUDOS-FLEX-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 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. Dosing manually or linked to an external control system. All functions are permanently monitored. The system is operated and controlled via a coloured 7“ Touch-Graphic display.

The GRANUDOS-FLEX-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.

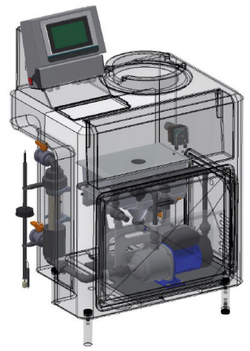
Optional function: In parallel to the chlorine supply of the main pool, a buffer tank can be filled with chlorine solution with an adjustable concentration to supply further pools with chlorine via dosing pumps.

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



SCOPE OF DELIVERY OF A COMPLETE PACKAGE

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 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 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 (with 5 kg or 15 kg volume)
- Dosing motor (with 12 rpm or 35 rpm)
- Dosing screw
- Knocker to support the dosing

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)	800 x 1300 x 600 mm
Weight	ca. 40 kg
Dosing performance chlorine	0,6 kg/h oder 2 kg/h
Dosing performance acid	1l/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
- Autocontrol system to control the dosing of the chemicals

ACCESSORIES/ OPTIONS

- 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