

RAS, Metering equipment

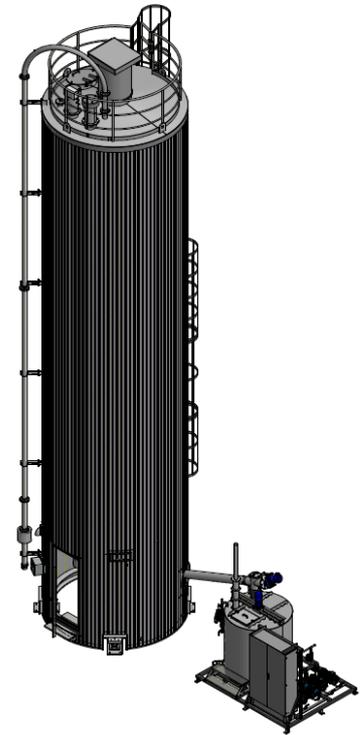
An automatic custom-made storage and metering equipment for pH-adjustment. Suitable for the RAS-application; Recirculating Aquaculture System.

TOMAL®
METERING SYSTEMS

ProMinent®
Group

Technical specification

- Silo for storage of Hydrated Lime, including dust filter, level indicators and arch breaking system
- Slide gate valve type V470
- Tomal multiscrew feeder type F475. Straight discharge curve. Feeding accuracy $\pm 1-2\%$ at constant bulk density. Self-cleaning feeder screws.
- Screw conveyor
- Preparation tank with agitator, dust ejector and water armatures
- Dosing pump skid
- Electrical control cabinet with PLC for easy and safe operation



Functional description

The storage silo is filled from a bulk truck, initiated from a low-level indicator strategically positioned in the silo. To avoid over pressure, the air is evacuated via a dustfilter on top of the roof. Over pressure relief valves are included as additional safety.

The multiscrew feeder meters the Lime into the preparation tank simultaneously with the preparation water. As the multiscrew feeder is very accurate, the concentration of the Lime slurry is precise. It can also be varied via a frequency converter from a remote signal or manual adjusting. The Lime slurry is transferred to the dosing point via frequency regulated dosing pump.

Preparation capacity

- Max 1 000 kg/h Hydrated Lime, Ca(OH)_2 powder, for preparation of a final Lime slurry concentration of max 10%.

Advantages

- Very accurate metering with the multiscrew feeder, $\pm 1-2\%$, so there is no need for weighing equipment
- Safe discharge and linear discharge curve
- Dust free operation
- High quality and robust construction

Optional equipment

- Protection valve at the inlet of the silo filling pipe, which closes at overfill indication
- Fully insulated silo to prevent eventual condensation inside the silo
- Automatic control of dust filter blockage, including easy operation display at ground level
- Weighing equipment
- Storage tank including transfer pump from preparation tank
- Other custom-made requirements