

Lime slaker



Waste water



Drinking water



Air & fumes

Lime slaking:

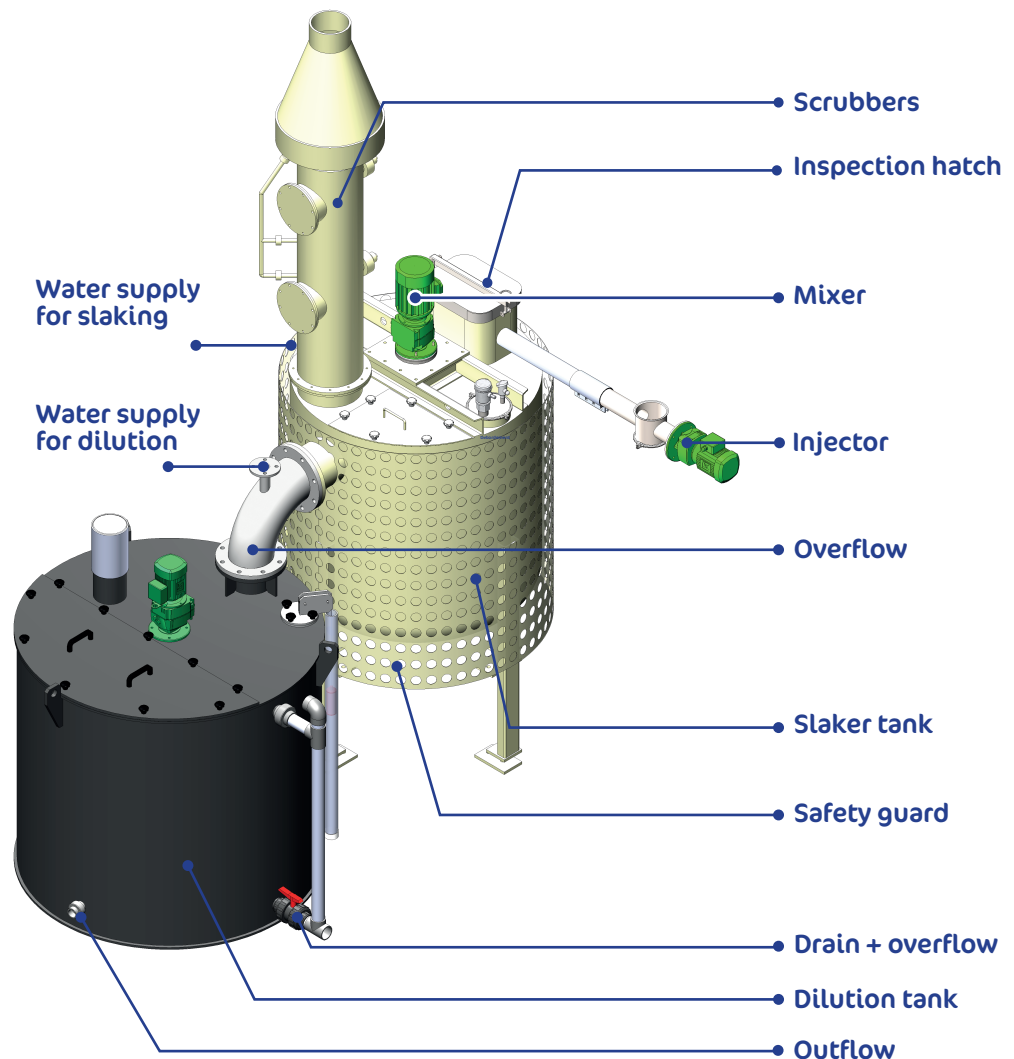
For many facilities with high lime consumption, it is advantageous to handle the lime slaking onsite, because quicklime is less expensive than hydrated lime.

The principle is to dose the quicklime into a mixing tank to have a high concentration. An exothermic reaction begins when quicklime comes into contact with water, releasing heat.

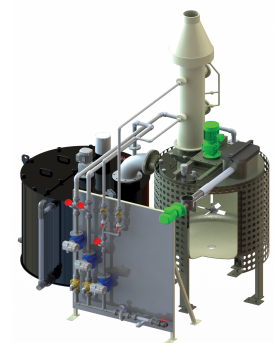
Lime slaking process and its system integration are suitable for the specific needs of every project.

Advantages:

- Modular tanks according to your needs
- Turnkey installation
- Dust free operation
- Integrated with our metering screw and our dilution tank for a complete process control
- Tailored final concentration for each process
- Automatic slaking process for continuous slaking with overflow
- Many options available
- Grit extraction



Installation examples:





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Operation:

Quicklime and water are dosed in the mixing tank, to achieve a concentration of 250 g/L. The injection is controlled by the level measured in the tank.

After a necessary reaction time, set by SODIMATE, the solution is transferred in a dilution tank through an overflow.

Water is added to achieve the desired final concentration (usual values are set between 5% and 10%).

Steam from the reaction is vacuumed through a vertical or horizontal scrubber.

After each batch, a cleaning cycle starts by spraying water inside of the scrubber through 2 nozzles.

Grids that are present in the bottom of the preparation tank are periodically removed with the waste water through a valve.

A temperature probe and a level sensor ensure a constant concentration in the slaking tank.



Specificities:

- **Stainless Steel 304 or 316**
- **Grit removal system**
- **Manual Flowmeters or Electronic Flowmeters**
- **Integrated hydraulic skid along the dilution tank**
- **Pumping skid for lime slurry**
- **Weighting cells**
- **Temperature sensors**
- **Level sensor**

Dimensions of the preparation tank			Overall size
Volume usable (L)	Ø (mm)	H (mm)	Ø X H (mm)
1000	1200	2000	1200 x 2300
2000	1500	2200	1500 x 2900

*Dimensions are indicative only