

Description

The equipment is designed to dilute and distribute the chemical TMAH. The resulting mixture of TMAH 2.38 % is formed by mixing Tetramethylammonium hydroxide (TMAH 25 %) and deionised water (DI water). The system is composed of an internal mixing loop and distribution.

Equipment and options:

- **A tank for the input solution of TMAH 25%** - a standard distribution cabinet to place a 200 l barrel.
Detailed description: 27860_C13 Distribution system for chemicals.
- **Equipment to dilute TMAH**
 - The skeleton of the box made from PVC corresponds to Standard FM4910, placed on feet with adjustable height.
 - An intercepting trap with a sensor to detect any leak.
 - A reserve tank - a source of TMAH 25% to replenish into a 10 l tank to correct the required concentration in the mixing loop.
 - A 10 l tank to fill the concentrated TMAH 25% from the distribution cabinet. It is connected to the mixing loop with a 100 l tank. The portion of TMAH 25 % in the resulting mixture is adjusted with the level sensor.
 - A 100 l - to fill DI water. It is connected to the mixing loop with the 10 l tank. The portion of DI water in the resulting mixture is adjusted with the level sensor.
 - Conductivity measurement of the solution in the mixing loop takes place with a probe. The required conductivity is determined in units of $\mu\text{S}/\text{cm}$. Having the required values been reached, the branch to pump the TMAH 2.38 % over into a 1200 l storage tank gets open.
 - A pump for the recirculation in the mixing loop and for pumping over into the 1200 l storage tank.
 - A pump for distribution from the 1200 l storage tank into other external pieces of equipment.
 - A panel with an assembly of pneumatic and manual valves.
 - A pipeline and fittings in PFA version.
 - Automatic process control, a control system with a touch keyboard and a graphic display, visualisation of the process and conditions of all inputs and outputs.
 - An indicator lamp OPERATION / FAILURE, an acoustic annunciator.
- **Storage tank for TMAH 2.38 %, volume: 1200 litres.**
 - Continuous level measurement with a differential pressure transmitter.
 - Conversion of hydrostatic pressure to volume in PLC.
 - Overfilling indication by means of a float switch.
 - Indication of leak into the outer shell.



Basic technical data:

Length:	1210 mm.
Width:	914 mm.
Height:	1905 mm.
Weight:	470 kg.
Power supply:	1NPE 230V AC 50Hz/TN-S.