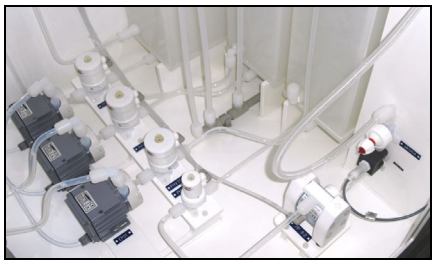
Pump Station for Acids

47200

Description

An automatic device is used as a storage tank and a distribution box for three different kinds of acids in semiconductor purity and for demineralised water. Each acid in the box has its own storage tank and the device is able to distribute a mixture of acids into the connected pipeline in a ratio as per the formula in the PLC.

The storage tanks with hydrofluoric acid and the storage tank with nitric acid HNO3 are refilled from the existing piping distribution. The storage tank with acetic acid CH3COOH is refilled from small-volume portable canisters wherefrom pumping is carried out automatically by means of a pneumatically controlled suction adapter and a pump.



Facts and interesting things:

- The box of the device is manufactured from chemically resistant polypropylene with transparent covers which make it possible to look into the chemical area with the storage tanks, mixing valves and pumps and similarly into the electric switchboard and on the position for pumping the acetic acid CH3COOH from a portable canister.
- The nominal volumes of the storage tanks for acids are 50 litres of HNO3, 30 litres of hydrofluoric acid and 30 litres of CH3COOH.
- The structure of the storage tanks is similar, each of them has built-in two capacity sensors of the maximum and minimum level and each of them is fitted with a level indicator to check the level when looking from the side of the device.
- The bottom structure of the device is in form of a collecting tub with an emergency sensor and with an outlet into the waste pipeline of acids.
- A manual shower for service purposes is a part of the chemical space of the box.

Basic technical data:

Length:	1,250	mm
Width:	900	mm
Height:	2,000	mm
Weight:	350	kg
Power supply:	1 NPE 230V AC 50Hz TN-S	

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