



DEMI water recirculation

DMHE 612/901-F recirculation

The system is designed for recirculating the demi water polluted by passivation from the previous stage.

Each system must be designed for the specific chemical used. This means that you are not able to change from one passivation type to another – 100% free of choice – after the system has been installed. You have to consult the supplier to check the compatibility.



Process description

In an ion exchanger plant for rinse water, the water first passes through a cation column and then an anion column, thus removing metal salts.

Through collection of the salts, the cations of the water are exchanged for hydrogen ions, H⁺ and the anions of the water are exchanged for hydroxide ions, OH⁻.

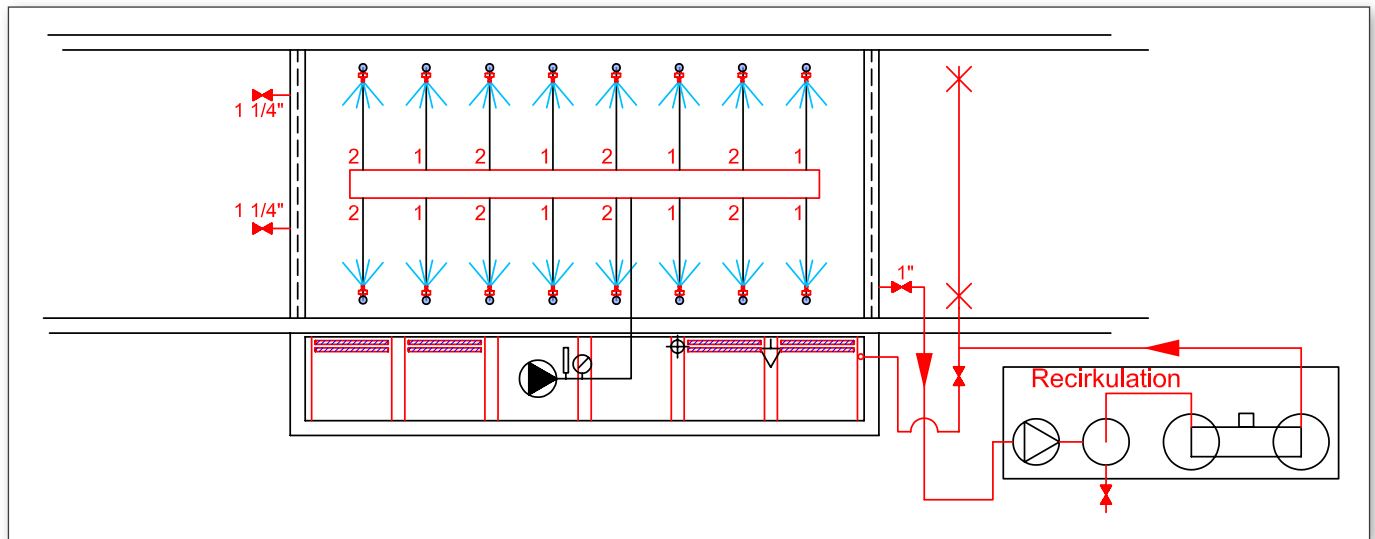
The hydrogen and hydroxide ions combine to form water, H₂O. When the capacity of the ion exchangers has been exhausted, the cation column is regenerated with hydrochloric acid, HCl, and the anion column with sodium hydroxide, NaOH.

The wastewater from the regeneration is treated in accordance with existing local regulations.

The plant is mounted on a frame and has an internal connecting pipe system and wiring, ready for connection.

DATA for DMHE 601/901-F

Max. rating at pressure drop 2.2 bar	m ³ /h	9
Free chlorine	mg/l	< 0.01
Supply pressure	bar	3-4
Water supply	m ³ /h	10.0
Water temperature	°C	10
TDS (salinity)	mg/l	500
SiO ₂ , max.	mg/l	25
Hardness	°dH	20



HIGHLIGHTS

- Rinse water preparation
- Ion exchanging system
- Regenerates when exhausted
- Mounted on a frame

