

DEMIN

Ion exchanger demineralisation

The DEMIN system series is our standard for the full desalination of water. The systems are ideal for the conditioning of water for boilers and all processes where very low-salt water is needed. Due to their compact design, small setup space requirement, and small flow rates, our DEMIN systems are perfect whenever space is in short supply. We are happy to offer higher capacities on request.

Features:

- Direct current regeneration
- Total dissolved solids (TDS) up to 500 mg/l
- Quick assembly and short commissioning time
- Small setup space requirement
- Simple operation and maintenance
- Reliable operating mode with product flow value monitoring
- Automatic regeneration
- The valve model enables optimal operation and good back-flushing and regeneration flows

Components:

- GRP pressure tank
- Cation and anion resin
- Central control valves
- Microprocessor control
- Dosing tank including collecting tray
- Regeneration fittings
- Parameter monitoring
- All required fittings and measuring instruments for configuration of the system

Operating conditions:

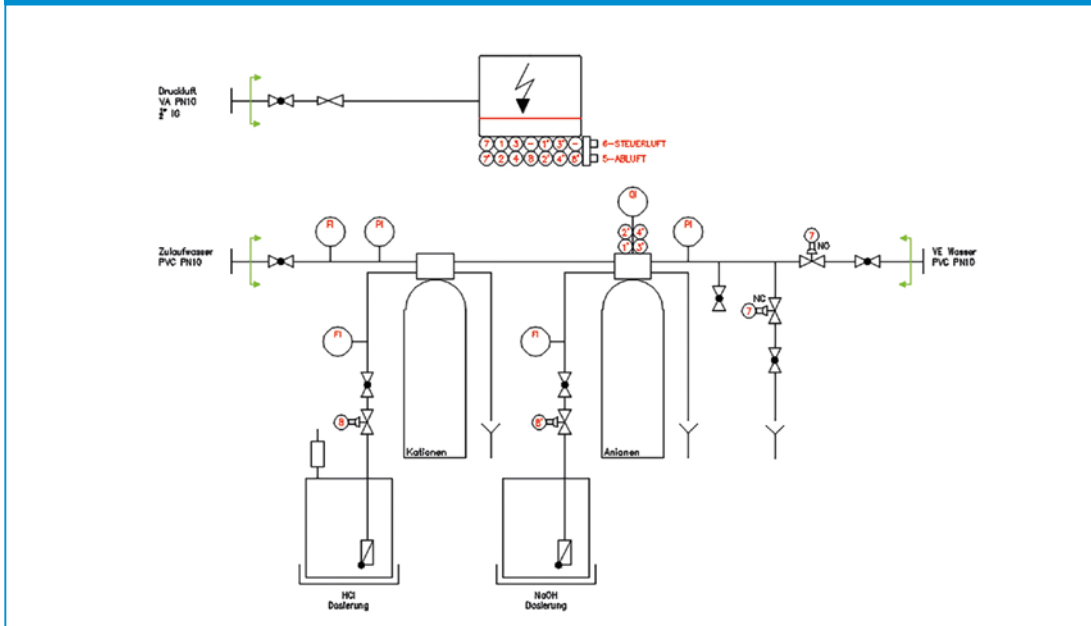
The requirements for the water inflow to the DEMIN systems are listed below:

Inlet pressure	2-6 bar
Inlet temperature	5-40° C
TDS inlet	max. 500 mg/l
Inlet water	free of oil, oxidants, colloids and particles

We recommend using filtration to remove colloids and particles.



Process diagram



Example diagram

DEMIN ion exchanger demineralisation systems

Type		DEMIN 25	DEMIN 50	DEMIN 75	Demin 100	Demin 125	Demin 150	Demin 200
Output	m ³ /h max.	1.0	1.5	2.5	3.0	4.0	5.0	6.0
Operating mode		Direct current regeneration						
Differential pressure*	bar	0.8						
Electrical connection		230V, 50Hz						
Cation resin	(l)	25	50	75	100	125	150	200
Anion resin	(l)	50	100	150	200	250	300	400
Resin capacity*	Cation / anion (val)	22/20	45/40	66/60	90/80	110/100	135/120	180/160
Cation tank	Type	8 x 44	10 x 54	14 x 65			18 x 65	
Anion tank	Type	10 x 54	14 x 65	18 x 65			24 x 72	
Chemicals tank	Volume (l)	100	200	300	400	500	800	800
Hydrochloric acid 35%*	litres/regeneration	10	20	30	40	50	60	80
Caustic soda 50%*	litres/regeneration	10	20	30	40	50	60	80
Connection	Input/output	DN20		DN25		DN32		DN40
Dimensions*	Height (mm)	1700	1800	1900	1900	1900	2200	2200
	Width (mm)	1500	2000	2300	2600	2600	3500	3500
	Depth (mm)	800	900	1000	1000	1000	1200	1200

*All data are approximate values