

Water Softeners

ISF DWZ Series

The Industrial Super Flow Duplex water softeners are a proven range of quality engineered systems designed for higher flow situations and are readily configured for all process applications.

Various control options are available and can be integrated with usual plant monitoring and status indication systems (BMS).

These softeners are designed to operate automatically with no intervention and have very low maintenance needs.

They are delivered with pre-manufactured manifolds for fast on-site installation and commissioning.



TECHNICAL INFORMATION

Normal configuration

Duty standby or parallel operation of vessels as required. Remote water meter regeneration initiation with external contact, e.g. from hardness monitor alarm.

Connections

Pre-assembled manifold in pvc with flanged connections.

Electrical requirements

Normally 230 V, 50 Hz. Transformed to 24 Vac for valve actuation.

Normal power consumption varies between 10 and 340 watts depending on status.

Feed water pressure

Normal range under operating conditions 2 - 7 bar.

Maximum acceptable water temperature

40°C at inlet.

Controls

Multiport brass valve (or Noryl depending on requirements) with 24 Vac activators, operated by remote microprocessor controller mounted on backboard for wall or pipework mounting providing:

- status indication
- water use and programme information
- alarm outputs
- programme over-ride capability

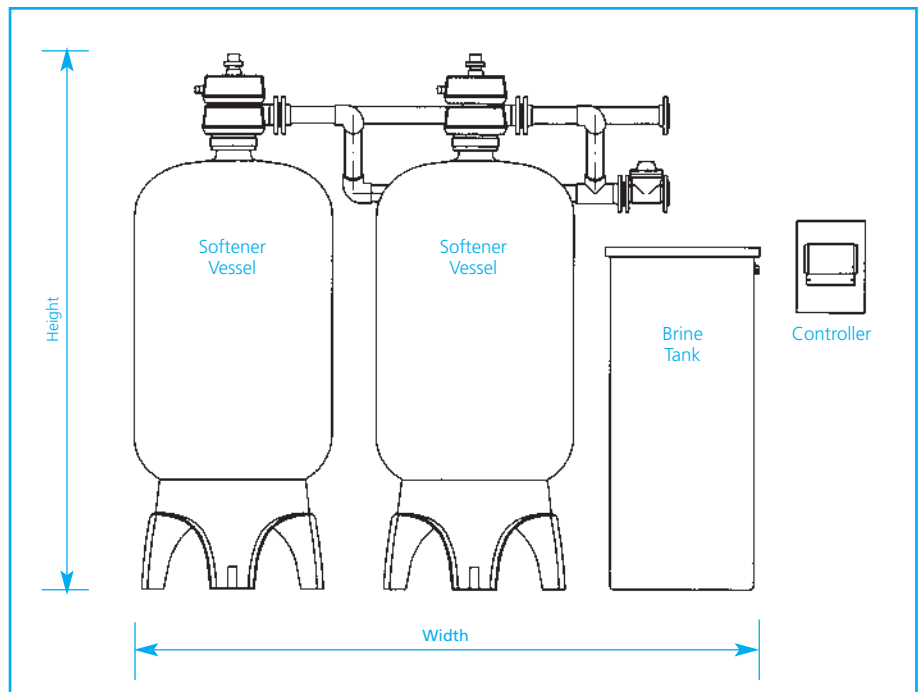
Resin vessel

Polyethylene inner liner with grp outer shell, fitted with internal riser and distribution system and food grade high capacity softening resin. Typical test pressure 11 bar.

PRODUCT RANGE

Type	Maximum flow rate m ³ /h	Nominal capacity* at 200ppm CaCO ₃ m ³	Typical salt use** per generation kg	Pressure loss bar	Resin volume per tank litres	Salt storage kg	Overall dimensions cm H x W x D
ISF							
1600 DWZ	20	160	85	1.0	500	565	270 x 260 x 80
2400 DWZ	30	241	128	1.2	750	565	275 x 290 x 94
3200 DWZ	40	322	170	1.4	1000	860	280 x 320 x 110
4000 DWZ	50	401	213	1.8	1250	860	285 x 350 x 125

* Typical values ** Normal standard setting



Options available:

- Isolation valves
- By-pass manifold
- Hard water blending valves
- Salt level monitor/alarm
- Pressure gauges
- Hardness monitor/alarm
- Salt storage facilities
- Brining systems
 - twin tank
 - bulk saturators
- Simplex or multiplex configuration as required
- Booster pumps
- Skid mounting
- Side mounted valves
- Service flow/level control system
- Electronic meter/pulse relay
- Noryl valves
- 110 or 24 V

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