Specification
Compact Softener WaterLine Compact

The compact softener WaterLine Compact is a system for softening clear, colourless, iron and manganese free tap water based on the principle of ion exchange.
The unit is suitable for use with HygroMatik humidification units and systems.
Regeneration of the ion exchanging capability is accomplished automatically based on volume measurement or may be forced after a fixed time interval in accordance with DVGW*.
Also, regeneration may be triggered manually, if necessary.
Both partial and full brining functions are available.
All components of the unit are made of corrosion-resistant material.
The connection-ready compact softener WaterLine Compact consists of the following components:

- Microprocessor-based central control valve with flow volume control for demand-based regeneration
- Exchanger vessel (plastic double shell type GRP**) with filling of high quality food safe cation resin
- Integrated brine tank
- Installation and service manual

The installation location must be safe from the risk of frost and must guarantee protection against any chemicals, solvents und steam. Also, it must be provided with a floor drain or be alternatively equipped with a water-stop device.
The unit may only be operated with an upstream fine filter in place and must be secured by a backflow preventer according to local regulations.

Technical Data:

Regeneration process	Direct current
Capacity	……. $m^3 \times$ ppm
.....	…… mol
Nominal flow / max. volume flow	…… l/h
Min. flow rate	…… l/h
Resin volume in exchange vessel	……. l
Salt consumption partial regeneration cycle	…… kg
Salt consumption full regeneration cycle	…… kg
Water consumption for regeneration	…… l
Brine tank capacity……	……. l
Unit size (WxDxH):	..... × ..... × ..... mm
Recommended footprint (WxDxH)	..... × ..... × .....mm
Water connection	1“
Max. working pressure	7 bar
Min. flow pressure	2.5 bar
Pressure loss at nominal flow	1 bar
Allowable water temperature	5 - 30°C
Allowable ambient temperature	5 - 40°C
Electrical connection	230 V, 50 Hz
Protection class	IP 54
Max. total hardness of feeding water	801 ppm

*German Association for gas and water applications
**Glass-reinforced plastic

Specification
Single Softener WaterLine Single

The single softener WaterLine Single is a system for softening clear, colourless, iron- and manganese free tap water based on the principle of ion exchange.
The unit is suitable for use with HygroMatik humidification units and systems.
Regeneration of the ion exchanging capability is accomplished automatically based on volume measurement or may be forced after a fixed time interval in accordance with DVGW*. Also, regeneration may be triggered manually, if necessary. As additional protection against biofilm growth an electrolytic chlorine device can be selected optionally.
Both partial and full brining functions are available.
All components of the unit are made of corrosion-resistant material.
The connection-ready single softener WaterLine Single consists of the following components:

- Microprocessor-based central control valve with flow volume control for demand-based regeneration
- Exchanger vessel (plastic double shell type GRP**) with filling of high quality food safe cation resin
- Brine tank with lid, intermediate bottom, overflow and hose system to central control valve
- Installation and service manual

The installation location must be safe from the risk of frost and must guarantee protection against any chemicals, solvents und steam. Also, it must be provided with a floor drain or be alternatively equipped with a water-stop device.
The unit may only be operated with an upstream fine filter in place and must be secured by a backflow preventer according to local regulations.

Technical Data:

Regeneration process	Direct current
Capacity	……. $m^3 \times$ ppm
.....	…… mol
Nominal flow / max. volume flow	…… l/h
Min. flow rate	…… l/h
Resin volume in exchange vessel	……. l
Salt consumption partial regeneration cycle	…… kg
Salt consumption full regeneration cycle	…… kg
Water consumption for regeneration	…… l
Brine tank capacity	……. l
Brine tank size (Ø x H)	……... x ……..…. mm
Exchanger vessel size incl. control valve (Ø x H)	……. x ……..…. mm
Recommended footprint (WxDxH)	..... x ..... x ..... mm
Water connection	1“
Max. working pressure	7 bar
Min. flow pressure	2.5 bar
Pressure loss at nominal flow	1 bar
Allowable water temperature	5 - 30°C
Allowable ambient temperature	5 - 40°C
Electrical connection	230 V, 50 Hz
Protection class	IP 54
Max. total hardness of feeding water	801 ppm

*German Association for gas and water applications
**Glass-reinforced plastic

Specification
Double Softener WaterLine Double

The double softener WaterLine Double is a system for softening clear, colourless, iron- and manganese free tap water based on the principle of ion exchange.
The unit is suitable for use with HygroMatik humidification units and systems.
By alternating operation of the softener soft water is permanently available.
Regeneration of the ion exchanging capability is accomplished automatically based on volume measurement or may be forced after a fixed time interval in accordance with DVGW*.
Also, regeneration may be triggered manually, if necessary. As additional protection against biofilm growth an electrolytic chlorine device can be selected optionally.
Both partial and full brining functions are available.
All components of the unit are made of corrosion-resistant material.
The connection-ready double softener WaterLine Double consists of the following components:

- Microprocessor-based central control valve with flow volume control for demand-based regeneration
- Two exchanger vessels (plastic double shell type GRP**) with filling of high quality food safe cation resin
- Brine tank with lid, intermediate bottom, overflow and hose system to central control valve
- Installation and service manual

The installation location must be safe from the risk of frost and must guarantee protection against any chemicals, solvents und steam. Also, it must be provided with a floor drain or be alternatively equipped with a water-stop device.
The unit may only be operated with an upstream fine filter in place and must be secured by a backflow preventer according to local regulations.

Technical Data:

Regeneration process	Direct current
Capacity	……. $m^3 \times$ ppm
.....	……. mol
Nominal flow / max. volume flow	……. l/h
Min. flow rate	……. l/h
Resin volume in exchange vessel	……. l
Salt consumption partial regeneration cycle	……. kg
Salt consumption full regeneration cycle	……. kg
Water consumption for regeneration	……. l
Brine tank capacity	……. l
Brine tank size (Ø x H)	….,…. x ……..….. mm
Exchanger vessel size incl. control valve (Ø x H)	……. x ……..….. mm
Recommended footprint (WxDxH)	..... x ..... x .....mm
Water connection	1“
Max. working pressure	7 bar
Min. flow pressure	2.5 bar
Pressure loss at nominal flow	1 bar
Allowable water temperature	5 - 30°C
Allowable ambient temperature	5 - 40°C
Electrical connection	230 V, 50 Hz
Protection class	IP 54
Max. total hardness of feeding water	801 ppm

*German Association for gas and water applications
**Glass-reinforced plastic

Specification
Double Softener WaterLine DoublePlus

The double softener WaterLine DoublePlus is a system for softening clear, colourless tap water containing iron- and manganese based on the principle of ion exchange.
The unit is suitable for use with HygroMatik humidification units and systems.
By alternating operation of the softener soft water is permanently available.
Regeneration of the ion exchanging capability is accomplished automatically based on volume measurement or may be forced after a fixed time interval in accordance with DVGW*. Also, regeneration may be triggered manually, if necessary. As additional protection against biofilm growth an electrolytic chlorine device can be selected optionally.
All components of the unit are made of corrosion-resistant material.
The connection-ready double softener WaterLine DoublePlus consists of the following components:

- Microprocessor-based central control valve with flow volume control for demand-based regeneration
- Two exchanger vessels (plastic double shell type GRP**) with filling of high quality food safe cation resin
- Brine tank with lid, intermediate bottom, overflow and hose system to central control valve
- Installation and service manual

The installation location must be safe from the risk of frost and must guarantee protection against any chemicals, solvents und steam. Also, it must be provided with a floor drain or be alternatively equipped with a water-stop device.
The unit may only be operated with an upstream fine filter in place and must be secured by a backflow preventer according to local regulations.

Technical Data:

Regeneration process	Direct current
Capacity	……. $m^3 \times$ ppm
.....	……. mol
Nominal flow / max. volume flow	……. l/h
Min. flow rate	……. l/h
Resin volume in exchange vessel	……. l
Salt consumption regeneration cycle	……. kg
Water consumption for regeneration	……. l
Brine tank capacity	……. l
Brine tank size (Ø x H)	……. x ……. mm
Exchanger vessel size incl. control valve (Ø x H)	……. x ……. mm
Recommended footprint (WxDxH)	..... x ..... x .....mm
Water connection	1“
Max. working pressure	7 bar
Min. flow pressure	2.5 bar
Pressure loss at nominal flow	1 bar
Allowable water temperature	5 - 30°C
Allowable ambient temperature	5 - 40°C
Electrical connection	230 V, 50 Hz
Protection class	IP 54
Max. total hardness of feeding water	801 ppm

*German Association for gas and water applications
**Glass-reinforced plastic