

Data sheet ion exchange water softener

When we speak of "water" in general, we usually mean water that contains visible or non-visible components in addition to the water molecules. Therefore, dissolved **ions, minerals, salts and gases** can be found in water, which together determine the total salt content as well as, through the various charges, the electrical conductivity of the water. **An ion exchange material is able to absorb the desired ions (positively or negatively charged particles) from the surrounding medium and replace them with other ions.**

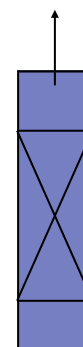


Figure 1: IAT EH solo 9

Applications

- Potable water
- Process water
- Boiler feed water
- Cooling water
- And many more

Soft water



Raw water

Figure 2: pictorial schematic

Technical data

| Model series | Volume flow Min. / Nom. / Max. [m ³ /h] | Capacity [mmol / l x m3] | Dimensions Length x Height x Width [mm] |
|----------------------|--|-----------------------------|---|
| IAT EH solo 1 - 13 | 0,3 / 1,1 / 1,1 | 2,3 | 350 x 1000 x 650 |
| IAT EH solo 3 - 40 | 0,3 / 3,0 / 3,3 | 7,1 | 400 x 1000 x 800 |
| IAT EH solo 9 - 260 | 1,7 / 9,2 / 15,0 | 46,3 | 1400 x 1650 x 700 |
| IAT EH solo 9 - 330 | 1,7 / 9,2 / 17,0 | 58,8 | 1700 x 1920 x 1050 |
| IAT EH solo 10 - 400 | 2 / 10 / 19 | 71,3 | 1700 x 1920 x 1050 |
| IAT EH solo 18 - 655 | 3,5 / 17,8 / 32 | 116,7 | 1800 x 2000 x 1050 |
| IAT EH solo 18 - 980 | 4,7 / 18,3 / 33,3 | 174,7 | 1900 x 2250 x 1100 |
| Large-scale systems | On request | | |

| Model series | Volume flow Min. / Nom. / Max. [m ³ /h] | Capacity [mmol / l x m ³] | Dimensions Length x Height x Width [mm] |
|----------------------|--|--|---|
| IAT EH para 2 - 13 | 0,3 / 1,1 / 1,1 | 2 x 2,3 | 700 x 1000 x 650 |
| IAT EH para 6 - 40 | 0,3 / 3,0 / 3,3 | 2 x 7,1 | 980 x 1000 x 800 |
| IAT EH para 18 - 260 | 3,3 / 18 / 30 | 2 x 46,3 | 2100 x 1650 x 1200 |
| IAT EH para 18 - 330 | 3,3 / 18 / 30 | 2 x 58,8 | 2600 x 1920 x 1600 |
| IAT EH para 20 - 400 | 4 / 20 / 38 | 2 x 71,3 | 2600 x 1920 x 1600 |
| IAT EH para 36 - 655 | 7 / 35,7 / 64 | 2 x 116,7 | 2800 x 2000 x 1800 |
| IAT EH para 36 - 980 | 9,4 / 35,7 / 66,6 | 2 x 174,7 | 2800 x 2250 x 1800 |
| Large-scale systems | On request | | |

By using other exchanger resins, the following components can also be removed in addition to softening:

- Iron
- Manganese
- Ammonium
- Nitrate

Your benefits

- **Modular systems with various options - expandable at any time**
- **Robust industrial design**
- **Simple system design**

Subject to technical changes