Sondex HW District Heating Unit for Hot Domestic Water

Sondex HW is an instantaneous water heater for one-family houses and apartments. It is space-saving and is easy to install in e.g. cupboards, technician rooms or in utility rooms.

The unit is supplied with a Sondex highly efficient brazed heat exchanger, in which the sensor of the thermo-valve is placed securing an exact control of the water temperature, a minimal wait for the hot water and calcium control.

Sondex HW refrigerates the district heating water effectively and grants a big quantity of hot water, which is heated successively, while tapping.

The temperature of the hot water is controlled by a thermo-valve, factory set at 50-60°C. This setting is consumer as well as environment friendly, as the temperature is kept below the critical limit for calcium deposit in the domestic water.

Properties
The water heater has a big output of tempered, hot water, which is heated while tapping. The output depends on the temperatures of the district heating side as well as the domestic water side. The output also depends on the differential pressure available.

The thermo-valve always keeps the domestic water on the flow control set point of the valve and keeps the service pipe appropriate hot, so that the water is hot while tapping.

Service and installation
A consistent connection with union and an appropriate piping makes the unit easy to install and service. Quick and easy installation by means of the two mounting holes in each corner. Connection of pipes is made on the four unions, on which it is easy to adapt the tube. After that tighten the union.

It is always recommended to install the non-return valve and safety valve in the DCW supply. Installation of safety valve must always comply with local regulations. It is also advisable to use a strainer with smallest possible mesh size.

Design
By the construction a clear and convenient placement of the components has been considered, as well as a functional and environment-friendly structure. Sondex HW can be delivered with a white-painted or stainless steel cabinet in a modern design.

Lifetime
Application of acid-resistant, stainless steel - AISI 316 - for plate heat exchangers and tubes, and application of approved quality components secures the unit a long lifetime.
Technical specifications
Sondex HW - District Heating Unit for Hot Domestic Water

Connections:
1. ¾” female thread domestic cold water
2. ¾” female thread domestic hot water
3. ¾” female thread district heating forwards
4. ¾” female thread district heating backwards

Data
Weight and measures incl.: Max. 15 kg
Cabinet and box: H464 x B254 x D155 mm
Max. temp. (primary/secondary): 120°C / 95°C
Max pressure: PN16
Cabinet (Auxiliary equipment): Stainless steel cabinet

Example: Hotwater capacity from 10°C/45°C

<table>
<thead>
<tr>
<th>Heat exchanger</th>
<th>Primary Output</th>
<th>Primary Forwards</th>
<th>Primary Return</th>
<th>Hotwater Quantity</th>
<th>Pressure loss Primary Bar</th>
<th>District Heating Flow l/h</th>
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