ENGINEERING
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Fact sheet

Termix BV-FI

Instantaneous water heater for large apartment houses, sports arenas and schools.

Application

The Termix BV-FI is an instantaneous water heater featuring superb heat extraction and high performance. The substation is delivered with electronic controls. The Termix BV is suitable for large apartment houses, sports arenas and schools, where large amounts of hot water are needed. The hot water systems are available in 7 different sizes.

Design

Termix BV-FI is built with an efficient heat exchanger for domestic hot water preparation, flow controller[1], electronic regulation, as well as built-in DHW circulation pump and a non-return valve. The electronic controller is factory pre-set. Electrical components are pre-wired, and the unit is equipped with a plug for 230 V a.c. There is no additional pressure loss on the secondary side of the heat exchanger with a thermostatic or automatic control valve. Therefore, this type of regulation can be used by low pressure in the cold-water mains.

Minimal heat loss

Complete insulation of the unit ensures minimal heat loss.

Options

The substation can be supplied with a thermostatic circulation valve.

Flexible solution

Pipe connection can be made from either the top or bottom, which makes this solution highly flexible. At the same time, both space and time are saved when installing.

Reliable and easy to install

Termix BV-FI is operationally reliable. A quality product manufactured in Denmark, which is easy to install and quickly commissioned.

FEATURES AND BENEFITS

- **Fully insulated**
- **DHW in sufficient quantity**
- **Instantaneous DHW production**
- **Water heater for apartment buildings**
- **Electronic control**
- **Operates independently of differential pressure and flow temperature**
- **Pipes and plate heat exchanger made of stainless steel**
- **Minimized risk of lime scale and bacteria formation**

[1] AVQM = self-acting flow controller with integrated with control valve

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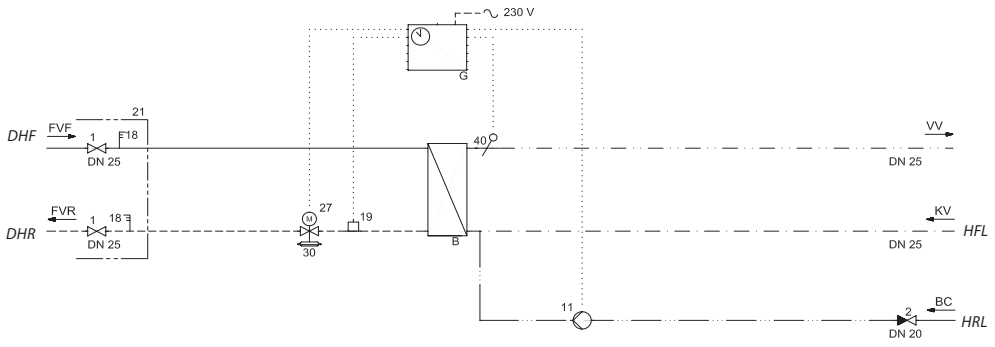
CIRCUIT DIAGRAM - EXAMPLE



B	*Heat exchanger, DHW*
G	*Electronic controller DHW*
1	*Shut-off valve*
2	*Single check valve*
9	*Dirt trap*
11	*Domestic hot water pump*
18	*Thermometer*
19	*Attachable sensor*
20	*Drain/Fill Valve*
21	*To be ordered separately*
27	*Motor*
30	*Motorized control valve with pressure differential*
40	*Immersion sensor*

Technical parameters:

Exchanger:	Stainless steel AISI 316
Test pressure exchanger:	25 bar
Working pressure:	16 bar
DCW static pressure:	Pmin = 0,5 bar
Valve type:	Danfoss
Operating temperature:	Max. 110°C
Soldering material:	Copper
Weight:	60 kg

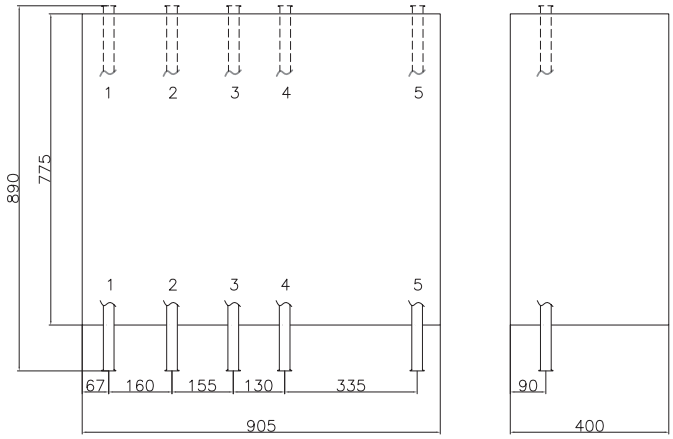
Connections:

1. Primary flow line 1" RG int.
2. Primary return line 1" RG int.
3. Domestic hot water out 1" RG int.
4. Domestic cold water in 1" RG int.
5. Hot water circulation ¾" RG int.

Options:

Thermostatic circulation set

Dimensions (mm):



DHW: CAPACITY EXAMPLES

Substation type Termix BV*	Pressure loss Primary [kPa]	District Heating 55/23 [°C] DHW 10/45 [°C]		District Heating 60/21 [°C] DHW 10/45 [°C]		District Heating 70/20 [°C] DHW 10/45 [°C]	
		DHW Capacity [kW]	DHW Tap load [l/min]	DHW Capacity [kW]	DHW Tap load [l/min]	DHW Capacity [kW]	DHW Tap load [l/min]
BV-FI - 2E-CP	50	56	20,5	70	28,7	85	34,8
BV-FI - 3E-CP	50	60	24,6	78	32,0	100	41,0
BV-FI - 4E-CP	50	74	30,3	105	43,0	140	57,4
BV-FI - 5E-CP	50	86	35,3	113	46,3	147	60,3
BV-FI - 6E-CP	50	100	41,0	120	49,2	155	63,5
BV-FI - 7E-CP	50	105	47,2	126	51,6	161	66,0
BV-FI - 8E-CP	50	130	53,3	150	61,5	195	79,9

*Heat meter not included.

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