

Fact sheet

# Termix BVX RO T/E

Indirect substitution for single-family houses or apartments



## Application

The Termix BVX RO T/E substation is a complete solution for hot water and space heating with optimal safety, efficient energy transfer, servicefriendly construction and a compact design. The substation is used if a heat exchanger is required or on a conversion to district heating where the existing equipment is unsuitable for direct connection.

## District heating (DH)

The substation is prefabricated with a differential pressure controller, fitting piece and sensor pockets for insertion of a heat meter as well as strainers and ball valves.

## Heating (HE)

The heating circuit consists of a plate heat exchanger, safety valves, manometer, thermometers, ball valves, drain valve, air valves, expansion vessel and circulation pump. The temperature of the heating is controlled by an electronic controller with an outdoor temperature sensor.

## Domestic hot water (DHW)

The domestic hot water circuit consists of a hot water tank with coil and selfacting thermostatic control valve. The DHW tank and coil are enamelled and the tank contains a magnesium anode.

## Options

The Termix BVX RO can be supplied with a thermostatic circulation valve or a built-in non-return valve and safety valve mounted in the cold water supply. Both options delivered loose with the unit.

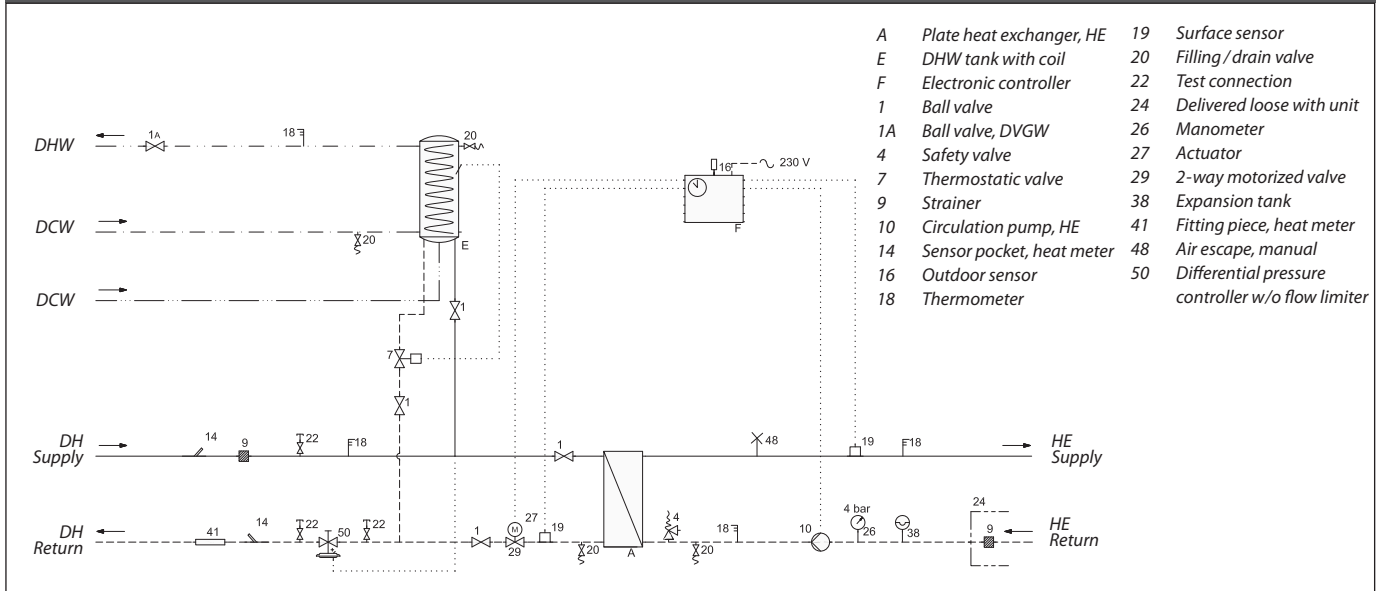
## Construction

All pipes are made of stainless steel. The connections are made with nuts and gaskets. The Termix BVX RO T/E is completed by a white steel cover in modern design with door and including external thermometers.

## FEATURES AND BENEFITS

- Substation for apartment buildings
- Direct heating with mixing loop
- Thermostatic or electronic controls
- Capacity: 100-150 kW DHW, 100 kW HE
- DHW in sufficient quantity
- Operates independently of differential pressure and flow temperature
- Minimum space required for installation
- Pipes and plate heat exchanger made of stainless steel
- Minimized risk of lime scale and bacteria formation

## CIRCUIT DIAGRAM - EXAMPLE



### Technical parameters:

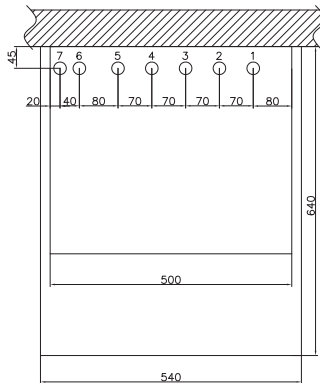
Nominal pressure: PN 10 (16)  
 Max. supply temperature:  $T_{max} = 120\text{ }^{\circ}\text{C}$   
 Brazing material (HEX): Copper

**Weight incl. cover:** 120 – 150 kg

**Cover:** White-lacquered steel sheet

### Dimensions (mm):

With cover:  
 H 1580 × W 540 × D 640 (type BVX 1-x)  
 H 1890 × W 540 × D 640 (type BVX 2-x)



The connections are at the top of the station

### Connections:

1. District heating (DH) supply
2. District heating (DH) return
3. Heating (HE) supply
4. Heating (HE) return
5. Domestic cold water (DCW)
6. Domestic hot water (DHW)
7. DHW Circulation (Circ.)

### Connections sizes:

DH + HE + DCW + DHW + Circ.: ¾" G (int. thread)

### Options:

- Thermostatic circulation set
- Ball valves set
- Thermometer
- Manometer
- Safety valve / non-return valve
- Pipe insulation

## DHW: CAPACITY EXAMPLES, 10°C / 50°C

Substation type	Tank volume [l]	Coil supply/return temp. [°C]	DHW constant capacity [l/h]	DHW capacity first hour* [l/h]	DHW constant capacity [kW]
		70/30	245	305	11,4
		60/30	172	232	8,0
BVX 2-x	150	80/40	486	576	22,6
		70/30	245	335	11,4
		60/30	172	262	8,0

\* Output first hour = constant output + 60% of tank volume

## HEATING: CAPACITY EXAMPLES

Substation type	$\Delta p$ [kPa]*	Temperature					
		70/40 – 35/60 °C		80/45 – 40/70 °C		90/45 – 40/70 °C	
		Capacity	Flow	Capacity	Flow	Capacity	Flow
BVX x-1	30	15	518	17	476	23	673
	35	16	555	18	510	25	724
BVX x-2	30	19	671	21	619	30	865
	35	21	718	23	662	32	929
BVX x-3	30	22	773	25	715	34	990
	35	24	828	27	765	37	1073
BVX x-4	30	30	1018	33	941	45	1306
	35	32	1089	35	1006	49	1404

\* Heat meter not included

Gemina Termix A/S · Member of the Danfoss Group · Navervej 15-17 · DK-7451 Sunds · Denmark  
 Tel.: +45 9714 1444 · Fax: +45 9714 1159 · mail@termix.dk · www.heating.danfoss.com

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