

Fact sheet

# Termix BL

Domestic hot water charging system for large apartment houses, sports arenas and schools



## Application

The Termix BL is a water heater with automatic controls prepared for a charging system. The Termix BL 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 with an output from 70-222 kW. The Termix BL unit is supplied with PU insulated plate heat exchangers.

## Domestic hot water (DHW)

The Termix BL is available for charging systems with large momentary demands for hot water or in installations with relatively low supply capacity. The Termix BL charging system is delivered with Danfoss automatic controls for regulation of the charging temperature and the temperature in the hot water buffer tank. The control valve with integrated

pressure control helps to avoid cyclic variations of the differential pressure in the district heating supply.

## Options

The substation can be supplied with a safety valve and a thermostatic circulation valve.

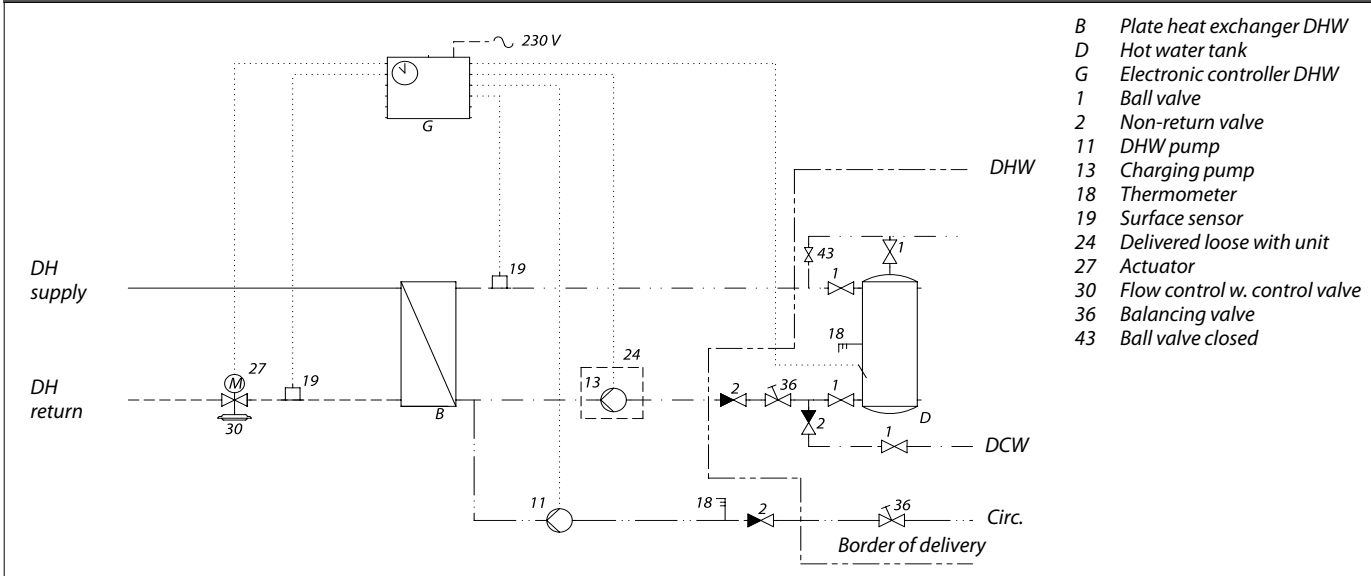
## Construction

All pipes are made of stainless steel. The connections are made by nuts and gaskets. The Termix BL substation can be delivered with a white-lacquered steel cover in modern design.

## FEATURES AND BENEFITS

- Instantaneous water heater
- DHW regulation with automatic controls
- Capacity: 70-222 kW DHW
- DHW in sufficient quantity
- Operates independent 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



- B Plate heat exchanger DHW
- D Hot water tank
- G Electronic controller DHW
- 1 Ball valve
- 2 Non-return valve
- 11 DHW pump
- 13 Charging pump
- 18 Thermometer
- 19 Surface sensor
- 24 Delivered loose with unit
- 27 Actuator
- 30 Flow control w. control valve
- 36 Balancing valve
- 43 Ball valve closed

Technical parameters:

Nominal pressure: PN 16  
 DH supply temperature:  $T_{max} = 120\text{ }^{\circ}\text{C}$   
 DCW static pressure:  $P_{min} = 0,5\text{ bar}$   
 Brazing material (HEX): Copper

Weight incl. cover: 20-40 kg (incl. packing)

Cover: White-lacquered steel sheet

Dimensions (mm):

Without cover:

H 660 x W 510 x D 240 (type 2-5)  
 H 1000 x W 800 x D 340 (type 6-8)

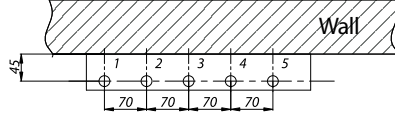
With cover:

H 800 x W 540 x D 360 (type 2-5)  
 H 1000 x W 950 x D 525 (type 6-8)

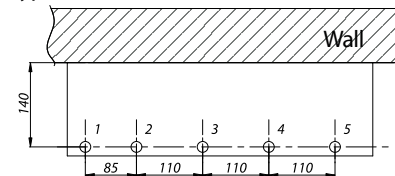
Connections:

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

Type 2-5



Type 6-8



Seen from above

Connections sizes:

DH + DCW + DHW: G 1" (int. thread)  
 Circulation: G 3/4" (int. thread)

Options:

- White-lacquered steel cover
- Safety valve and non-return valve (10 bar)
- Thermostatic circulation set

DHW: CAPACITY EXAMPLES

Substation type	Charging capacity [kW]	Recommended size of tank [litre]	Number of showers*
BL-2E-CP	70	200	10
BL-3E-CP	82	300	15
BL-4E-CP	113	600	25
BL-5E-CP	126	800	30
BL-6E-CP	157	800	35
BL-7E-CP	186	1000	40
BL-8E-CP	222	1000	45

\* Flow per shower: 10 l/min - DHW temp. at tap: 40 °C

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