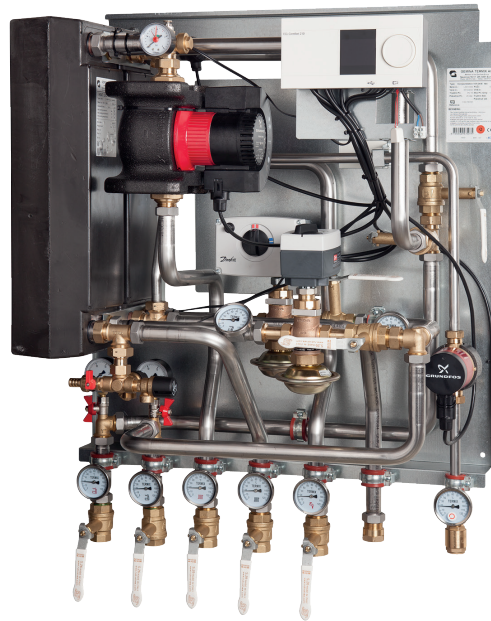


Fact sheet

Termix VVX Compact 28

Indirect substation for apartment buildings with up to 25 apartments



Application

The Termix VVX Compact 28 is a complete solution for hot water and space heating with optimal safety, efficient energy transfer, service-friendly construction and a compact design. The substation is applicable, 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 district heating circuit is prefabricated with a flow controller with integrated control valve as well as thermometers and ball valves.

Heating (HE)

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

Domestic hot water (DHW)

The domestic hot water is prepared in the plate heat exchanger and the temperature is regulated with an electronic controller. The efficient heat exchanger offers exceptionally good heat extraction with high output. No readjustment of the DHW temperature is required after installation and initial setting of the controls. The electronic control automatically retains the comfort temperature of the hot water, even when the heating system is in reduced operation during summer or if the district heating plant changes operating parameters between summer and winter. An integrated circulation pump for DHW is installed.

Options

Termix VVX Compact 28 can be delivered with white-lacquered steel cover and filling line between primary and secondary side.

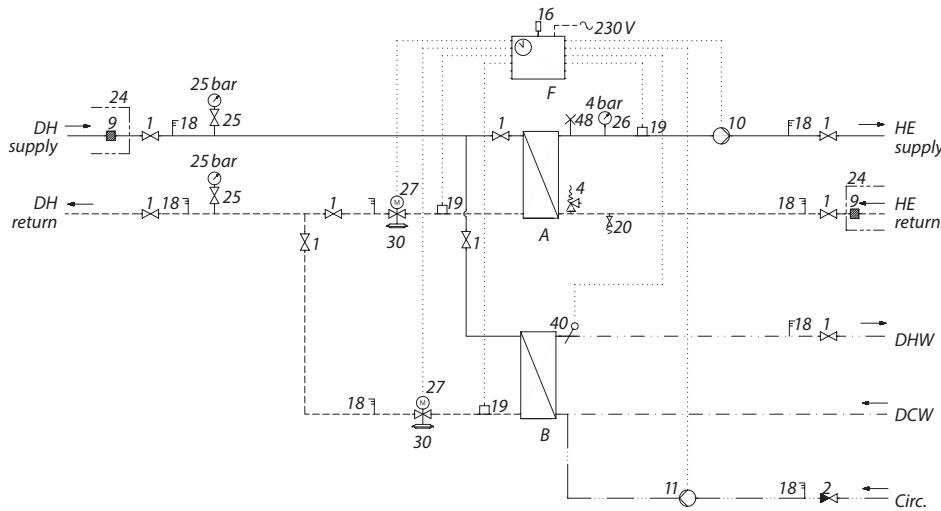
Construction

All pipes are made of stainless steel. The connections are made by nuts and gaskets.

FEATURES AND BENEFITS

- Substation for apartment buildings
- Thermostatic or electronic control of heating and DHW temperature
- Capacity: 150kW heating, 150 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



- A Heat exchanger HE
- B Heat exchanger DHW
- F Electronic controller
- 1 Ball valve
- 2 Non-return valve
- 4 Safety valve
- 9 Strainer
- 10 Circulation pump
- 11 DHW pump
- 16 Outdoor sensor
- 18 Thermometer
- 19 Surface sensor
- 20 Filling/drain valve
- 24 Delivered loose with unit
- 25 Manometer with ball valve
- 26 Manometer
- 27 Actuator
- 30 Flow control w. control valve
- 48 Air escape, manual

Technical parameters:

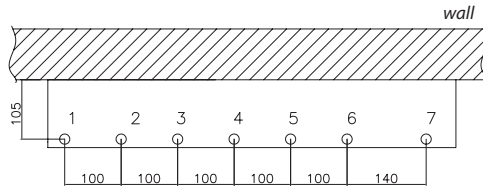
Nominal pressure: PN 16
 DH supply temperature: $T_{max} = 120^{\circ}C$
 DCW static pressure: $P_{min} = 0,5 \text{ bar}$
 Brazing material (HEX): Copper

Weight: approx. 75 kg

Dimensions (mm)

Without cover: H 970 × W 750 × D 440
With cover: H 970 × W 800 × D 522

Electrical supply: 230V AC



Connections:

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

Connections sizes:

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

Options:

- Cover
- Filling line

DHW: CAPACITY EXAMPLES, 10°C/50°C				
DHW capacity [kW]	Supply flow primary [°C]	Return flow primary [°C]	Pressure loss primary [kpa]	Flow rate secondary [l/h]
100	70	22	50	2150
110	70	22	50	2365
120	70	22	50	2580
130	70	22	50	2795
140	70	22	50	3010
150	70	22	50	3225

HEATING: CAPACITY EXAMPLES				
Heating capacity [kW]	Heating circuit primary [°C]	Heating circuit secondary [°C]	Pressure loss primary [kpa]	Flow rate secondary [l/h]
70	90/45	40/70	50	2007
90	90/45	40/70	50	2580
110	90/45	40/70	50	3153
120	90/45	40/70	50	3440
140	90/45	40/70	50	4013
150	90/45	40/70	50	4300

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