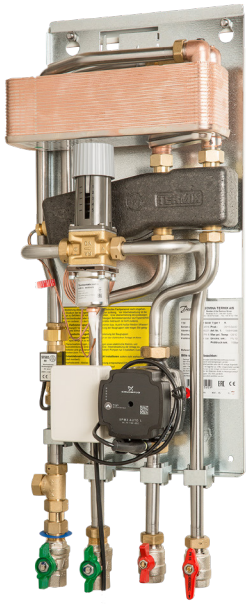
ENGINEERING
TOMORROW

Fact sheet

Termix One Solar

Domestic hot water module for flats, single-family houses and apartment buildings with up to 10 apartments



Application

The Termix One Solar is an instantaneous water heater, featuring superb heat extraction and high performance. The Termix One Solar is applicable for heating systems with buffer accumulators, solar systems or for other heat sources, where a very low return temperature is preferred. The water heater is available in three sizes, either for 1 apartment, for 1-4 apartments or for 5 up to 10 apartments. The large heat exchanger cools out the water in the primary return line very efficiently, thereby creating a very good operation economy. A flow switch in cold water mains is controlling the primary heating pump. An optional circulation pump together with a thermostat can maintain the circulating temperature at a desired temperature.

Domestic hot water (DHW)

The domestic hot water is prepared in the heat exchanger and the temperature is regulated with a thermostatic control valve. The patented sensor accelerator accelerates the closing of the thermostatic control valve and protects the heat exchanger against overheating and lime scale formation. The sensor accelerator and the thermostatic control valve also works as a bypass keeping the heat exchanger and supply line warm. This shortens the waiting periods. The sensor accelerator helps to ensure a stable hot water temperature by varying loads, flow temperatures and differential pressure without the need for readjusting the valve. There is no additional pressure loss on the secondary side of the DHW heat exchanger with a thermostatic control. Therefore this type of regulation can be used by low pressure in the cold water mains.

Options

The water heater can be supplied with built in non-return valve and safety valve mounted in the cold water supply.

Construction

All pipes are made of stainless steel. The connections are made by nuts and gaskets. The Termix One Solar is delivered with an attractive steel grey cover in modern design, emphasising the high level of quality and comfort which characterises this product.

FEATURES AND BENEFITS

- Domestic hot water module
- DHW regulation with an accelerated thermostatic control
- Capacity: Up to 90 kW on 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

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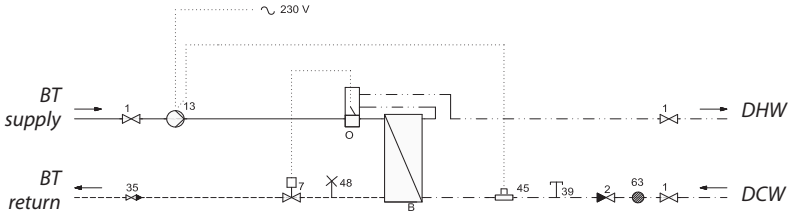
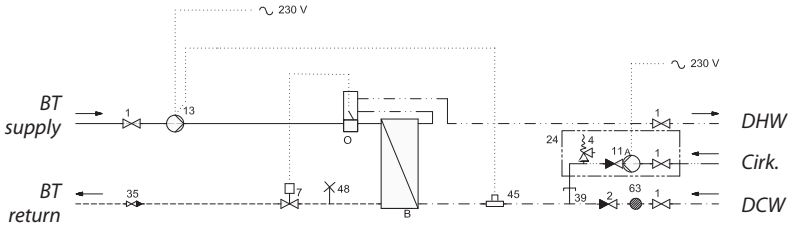
CIRCUIT DIAGRAM - EXAMPLE



Termix One Solar

O	*Termix Sensor Accelerator*	*39*	*Connection closed*
B	*Plate heat exchanger DHW*	*45*	*Flow switch*
1	*Ball valve*	*48*	*Air vent, manual*
2	*Single check valve*	*63*	*Sieve*
7	*Thermostatic valve*		
13	*Charging pump*		
35	*Ball valve / non-return valve*		



Termix One Solar – with circulation

O	*Termix Sensor Accelerator*	*24*	*Delivered loose with unit*
B	*Plate heat exchanger DHW*	*35*	*Ball valve / non-return valve*
1	*Ball valve*	*39*	*Connection closed*
2	*Single check valve*	*45*	*Flow switch*
4	*Safety valve*	*48*	*Air vent, manual*
7	*Thermostatic valve*	*63*	*Sieve*
11	*Circulation pump DHW*		
13	*Charging pump*		

Technical parameters:

Nominal pressure:	PN 16
DH supply temperature:	T_{max} = 120 °C
DCW static pressure:	p_{min} = 0,5 bar
Brazing material (HEX):	Copper

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

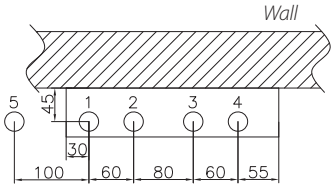
Cover: Grey-lacquered steel sheet

Dimensions (mm):

Without cover:	H 770 × B 300 × T 160
With cover:	H 770 × B 315 × T 165
With circulation:	
Without cover:	H 960 × B 400 × T 190
With cover:	H 960 × B 400 × T 190

Connections:

1 Domestic cold water (DCW)
2 Domestic hot water (DHW)
3 Buffer tank (BT) supply
4 Buffer tank (BT) return
5 Circulation



Seen from above

Connections sizes:

All connections: G ¾" (int. thread)

Options:

Circulation set for Termix One Solar

DHW: CAPACITY EXAMPLES, 10°C / 50°C

Substation type	DHW Capacity [kW]	Supply flow Primary [°C]	Return flow Primary [°C]	Pressure loss Primary [kPa]	Flow rate Secondary [l/h]	Substation type	DHW Capacity [kW]	Supply flow Primary [°C]	Return flow Primary [°C]	Pressure loss Primary [kPa]	Flow rate Secondary [l/h]
Type 1 w/AVTB 15 1 household	29,3	60	23,0	20	630	Type 2 w/AVTB 20 up to 4 households	34,7	60	24,4	20	744
	38,2	60	25,2	45	822		47,1	60	26,8	45	1014
	37,8	70	20,0	20	816		45,1	70	21,3	20	972
	52,3	70	22,4	45	1128		65,6	70	23,8	45	1410
Type 3 w/AVTB 20 5 to 10* households	60	60	23,0	35	1280	–	–	–	–	–	–
	66	60	24,0	45	1426		–	–	–	–	–
	80	70	20,3	35	1730		–	–	–	–	–
	90	70	21,0	45	1940		–	–	–	–	–

* Capacity for 10 households at 70 °C DH flow temperature

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