



Thermax

Innovative system technology for modern heating and solar thermal systems





Modular distribution system Thermax



• for wall-mounted boilers

The modular distribution manifold system Thermax is a preassembled group of fittings for heating circuits. It consists of a Thermax distribution manifold, two Thermax heating circuit modules and a design insulation with optimised function.

Thermax can be mounted directly to the wall or with distance pieces at a distance of 100 mm to the wall. This means that additional flow lines to the boiler can be installed below the Thermax.

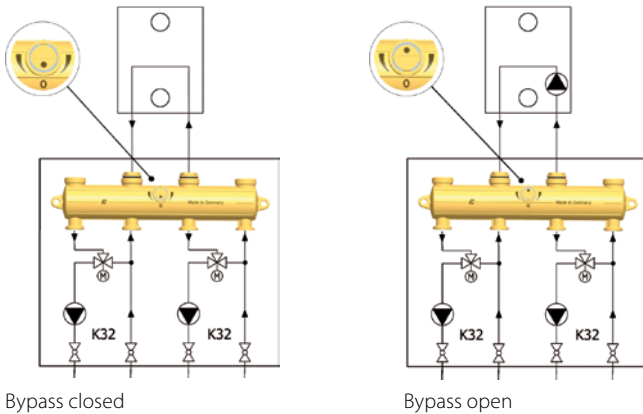
Complete hydraulic separation between the connected circuits and the boiler is possible.

The adjustable bypass (0 - 100%) of the Thermax manifold guarantees forced circulation in the boiler when the bypass is open.

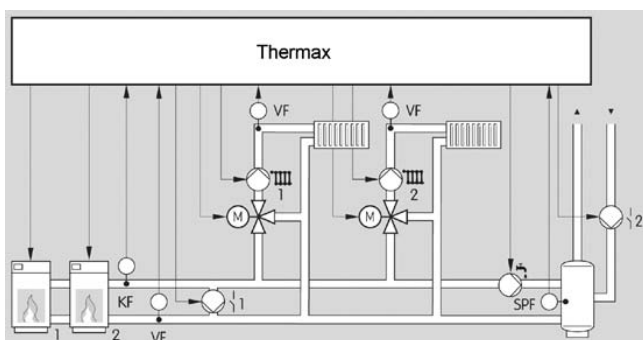
Two different heating circuits to select from:

Unmixed heating circuit K31 - for modulating temperature heating systems

Heating circuit K32 with 3-way mixing valve - for heating systems controlled by a mixing valve



The Thermax system has been designed for applications with two different temperature levels, for example connected to a consumer with a high flow temperature (radiator) and a consumer with a low temperature (radiant floor heating).



Thermax controller

The Thermax controller can be used to control heating systems with two heating circuits with motorised mixing valves. The boiler temperature is controlled dependent on both heating circuits, while the difference between the boiler temperature and the flow temperatures of the heating circuits can be adjusted between 5 and 20 K.

The controller is also suitable for systems with two-stage-burners or two boilers and is able to actuate a charge pump. Both heating circuits have separate time programs and can be controlled separately by two analogue or digital remote controls.

Technical data



Thermax DN 20

Materials

Valves and fittings	Brass
Seal	EPDM/NBR
Insulation	EPP/ABS

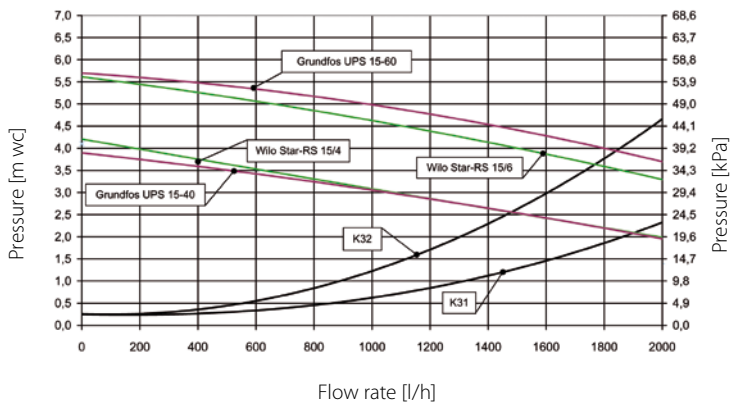
Technical data

Nominal pressure	10 bars
Max. operating temperature	110 °C
Kvs value unmixed	4.3
Kvs value mixed	3.0
Kvs value Thermax	7.8

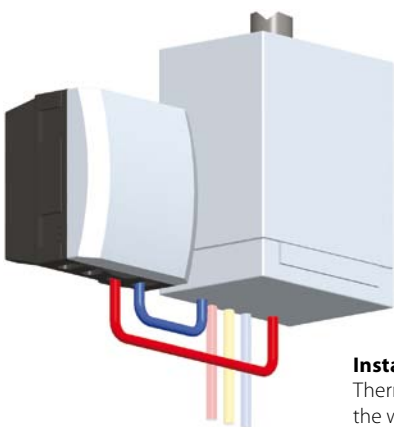
Dimensions

Connections consumer	¾" internal thread
Connection generator	1" ext. / ¾" int. thread
Centre distance	90 mm
Height	450 mm
Width	400 mm
Total depth (with distance pieces)	300 mm
Total depth (without distance pieces)	200 mm

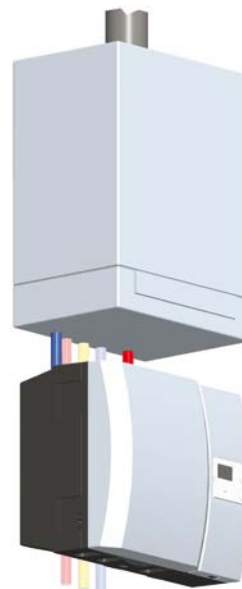
Differential pressure diagram Thermax DN 20



Mounting versions



Installation beside the boiler:
Thermax is mounted directly to the wall without distance pieces



Installation below the boiler:
Boiler pipes are installed between the Thermax with distance pieces and the wall

Illustration	Item	Item no.
	<p>Thermax - K31-K32 DN 20</p> <p>2 x Wilo Star-RS 15/4, 3-speed</p> <p>2 x Wilo Star-RS 15/6, 3-speed</p> <p>2 x Grundfos UPS 15-40, 3-speed</p> <p>2 x Grundfos UPS 15-60, 3-speed</p>	<p>322611WI4</p> <p>322611WI6</p> <p>322611GR4</p> <p>322611GR6</p>
	<p>Thermax - K32-K32 DN 20</p> <p>2 x Wilo Star-RS 15/4, 3-speed</p> <p>2 x Wilo Star-RS 15/6, 3-speed</p> <p>2 x Grundfos UPS 15-40, 3-speed</p> <p>2 x Grundfos UPS 15-60, 3-speed</p>	<p>322621WI4</p> <p>322621WI6</p> <p>322621GR4</p> <p>322621GR6</p>
	<p>Thermax controller Controller housing to be directly mounted to the Thermax system, incl. 2 x flow temperature sensors, 1 x external temperature sensor</p> <p>Thermax controller</p>	<p>703211</p>
	<p>Remote control Lago FB (digital, 4 wires)</p>	<p>703215</p>
	<p>Remote control FBR2 (analogue, 3 wires)</p>	<p>703216</p>
	<p>Radio clock, DCF receiver</p>	<p>703228</p>
	<p>Universal flow temperature sensor VF</p>	<p>703223</p>