MULTIBETON

Product catalogue Underfloor heating



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System pipes & system components



MB Euro System pipe 12, 17 and 22

High-heat stabilised copolymer, MB raw material development, UV-stabilised, highly molecular, long-term and ageing-resistant, diffusion protection according to MULTIBETON process, specially packaged; fixed lengths can be produced by arrangement.

010001-100	MB-ER12	12.0 mm x 2.2 mm	100 m coil
010001-200	MB-ER12	12.0 mm x 2.2 mm	200 m coil
010001-300	MB-ER12	12.0 mm x 2.2 mm	300 m coil
010001-500	MB-ER12	12.0 mm x 2.2 mm	500 m coil
010011-200	MB-FR17	17.0 mm x 2.2 mm	200 m coil
010011-300		17.0 mm x 2.2 mm	300 m coil
	MB-ER17		300 m coil 500 m coil
010011-300	MB-ER17	17.0 mm x 2.2 mm	
010011-300	MB-ER17 MB-ER17	17.0 mm x 2.2 mm	

MB System pipe 17

High-heat stabilised copolymer, MB raw material development, UV-stabilised, highly molecular, long-term and ageing-resistant, specially packaged; fixed lengths can be produced by arrangement.

010021-200	MB-SR17	17.0 mm x 2.2 mm	200 m coil
010021-300	MB-SR17	17.0 mm x 2.2 mm	300 m coil
010021-500	MB-SR17	17.0 mm x 2.2 mm	500 m coil

MB Steel clip rail

010041-30 MB-CS12

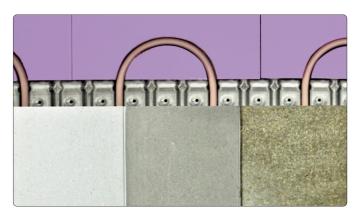
1 bundle = 15 rails of 2 m = 30 m, made of galvanized steel, manufacturing tolerance \pm 0.8 %, perforated for better wall and ceiling mounting

	MB Steel clip rail 12	30 m bundle
010051-30	MB-CS17	
	MB Steel clip rail 17	30 m bundle



System components for MB Flat System (FLS-35/27)

080301	MB Lightweight screed (MB-LES)	1 bag = 21 kg
080302	MB Glass fibre mat (MB-GFM), cust	com length m²
080303	MB Thin screed (MB-DES)	1 bag = 25 kg
080304	MB Thin screed Pro (MB-DEP)	1 bag = 25 kg
080305-25	Edge insulation band FLS	
	50 mm (h) x 8 mm (w)	1 roll = 25 m
080307	Primer FLS	1 can = 10 kg
080308	Fabric tape FLS	
	Width 50 mm	1 roll = 50 m
080309	Adhesive sealing tape FLS	
	Width 60 mm	1 roll = 25 m



System components for MB Dry Floor (TRB-17)

Attention: These products may have longer delivery times.

080201	MB Load distribution plate (MB-DVP)	
	for TRB-17	m²

















Screed additives & reinforcement



MB Screed emulsion standard (MB-Typ E)

Highly efficient standard screed emulsion: Improvement in workability, flexural strength, compressive strength, adhesion, surface smoothness, rapid drying and temperature distribution of screeds for underfloor heating and cooling. Special properties: MB-Typ E results in unusually high water savings with the various dosages. The small addition of water is even the prerequisite for the quality improvements listed.

020001-20 MB-Typ E

can of 20 l

MB Screed emulsion special (MB-PVP)

Special screed emulsion: The targeted addition of plastic to the screed mortar improves the finished screed in terms of compaction, flexural strength, compressive strength, adhesion, surface smoothness, quick drying, temperature distribution of underfloor heating and cooling systems, in the abrasion resistance and in the static values. Use as an additive for cement-based fillers, to strengthen cement screeds, as a smooth cement screed, for screed repairs, with normal cement screed and panel mortar, for binders, for flat screeds for MULTIBETON surface heating and for cement-based rapid screeds.

 020011-10
 MB-PVP
 can of 10 l

 020011-20
 MB-PVP
 can of 20 l



Steel fibres

For screed reinforcement of the MB Flat Screed System (EFS-40): length 20mm, width 1.7mm, thickness 0.5mm (KrampeHarex Typ KE 20/1.7 with hooked ends)

020051-20 Steel fibres

box of 20 kg

















192 mm

242 mm

292 mm

342 mm

392 mm

442 mm

492 mm

542 mm

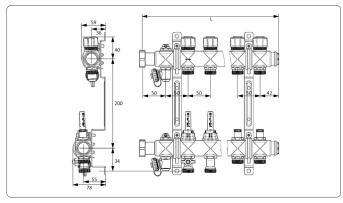
592 mm

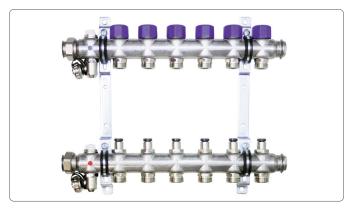
642 mm

692 mm



Product catalogue Underfloor heating





Manifold 1" standard

Manifold 1" standard with regulating inserts (meets the DIN 1264-4) for manual hydraulic balancing of the heating circuits, especially low-resistance and recommended for all MB System pipes. Manifold with flow and return bars made of stainless steel (DN 32) according to EN 10088-2, completely pre-assembled, 2 x manual vent valve 1/2", 2 x service valve (flush, fill and drain valve) 1/2", 2 x end plugs 3/4" (all parts nickel-plated).

Outlets: nickel-plated connection nipple 3/4" ET with Euro cone according to DIN V 3838 suitable for connection fittings, spigot distance 50 mm, 2 x union nut 1" IT (nickel-plated) flat-sealing for direct connection of the ball valves;

Return bar: integrated thermostatic valve (constant volume flow = 2.75 m³/h, V2A) with blue manual regulation caps and connection thread M30 x 1.5 (prepared for on-site installation of electrothermal actuators);

Flow bar: integrated regulating inserts with memory function (constant volume flow = 2.88 m³/h, nickel-plated, stroke regulation can be preset) for regulating and shutting off the water flow;

Miscellaneous: room labels, 2 x galvanized double wall brackets (200 mm distance between flow and return beams) with sound insulation insert (DIN 4109), complete with screws and dowels, packed in a protective cardboard box;

030001-2	02 circuits	length (L)
030001-3	03 circuits	length (L)
030001-4	04 circuits	length (L)
030001-5	05 circuits	length (L)
030001-6	06 circuits	length (L)
030001-7	07 circuits	length (L)
030001-8	08 circuits	length (L)
030001-9	09 circuits	length (L)
030001-10	10 circuits	length (L)
030001-11	11 circuits	length (L)
030001-12	12 circuits	length (L)



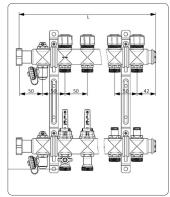




MULTIBETON

Product catalogue Underfloor heating Manifolds





Manifolds 1" flow indicator

Manifolds 1" flow indicator (meets the DIN 1264-4) for manual hydraulic balancing of the heating circuits, especially low-resistance and recommended for all MB System pipes. Manifold with flow and return bars made of stainless steel (DN 32) according to EN 10088-2, completely pre-assembled, 2 x manual vent valve 1/2", 2 x service valve (flush, fill and drain valve) 1/2", 2 x end plugs 3/4" (all parts nickel-plated).

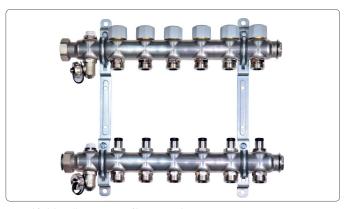
Outlets: nickel-plated connection nipple 3/4" ET with Euro cone according to DIN V 3838 suitable for connection fittings, spigot distance 50 mm, 2 x union nut 1" IT (nickel-plated) flat-sealing for direct connection of the ball valves;

Return bar: integrated thermostatic valve (constant volume flow = 2.75 m³/h, V2A) with blue manual regulation caps and connection thread M30 x 1.5 (prepared for on-site installation of electrothermal actuators);

Flow bar: with integrated flow indicator 0-3 l/min with memory function (constant volume flow = 1.23 m³/h, V2A) for regulating and shutting off the water flow;

Miscellaneous: room labels, 2 x galvanized double wall brackets (200 mm distance between flow and return beams) with sound insulation insert (DIN 4109), complete with screws and dowels, packed in a protective cardboard box;

030011-2	02 circuits	length (L) 192 mm
030011-3	03 circuits	length (L) 242 mm
030011-4	04 circuits	length (L) 292 mm
030011-5	05 circuits	length (L) 342 mm
030011-6	06 circuits	length (L)392 mm
030011-7	07 circuits	length (L) 442 mm
030011-8	08 circuits	length (L) 492 mm
030011-9	09 circuits	length (L) 542 mm
030011-10	10 circuits	length (L) 592 mm
030011-11	11 circuits	length (L) 642 mm
030011-12	12 circuits	length (L) 692 mm



Manifolds 1" constant flow regulators

Manifolds 1" constant flow regulators for automatic hydraulic balancing of the heating circuits, especially low-resistance and recommended for all MB System pipes. Manifold with flow and return bars made of stainless steel (DN 32) according to EN 10088-2, completely pre-assembled, 2 x manual vent valve 1/2", 2 x service valve (flush, fill and drain valve) 1/2", 2 x end plugs 3/4" (all parts nickel-plated).

Outlets: nickel-plated connection nipple 3/4" ET with Euro cone according to DIN V 3838 suitable for connection fittings, spigot distance 50 mm, 2 x union nut 1" IT (nickel-plated) flat-sealing for direct connection of the ball valves;

Return bar: integrated constant flow regulators 0-5 l/min in the thermostatic inserts with gray manual control caps and connection thread M30 x 1.5 (prepared for on-site installation of electrothermal actuators);

Flow bar: integrated regulating inserts (constant volume flow = 2.88 m³/h, nickel-plated) for shutting off the water flow;

Miscellaneous: room labels, 2 x galvanized double wall brackets (200 mm distance between flow and return beams) with sound insulation insert (DIN 4109), complete with screws and dowels, packed in a protective cardboard box;

030022-2	02 circuits	length (L) 192 mm
030022-3	03 circuits	length (L) 242 mm
030022-4	04 circuits	length (L) 292 mm
030022-5	05 circuits	length (L) 342 mm
030022-6	06 circuits	length (L) 392 mm
030022-7	07 circuits	length (L) 442 mm
030022-8	08 circuits	length (L) 492 mm
030022-9	09 circuits	length (L) 542 mm
030022-10	10 circuits	length (L) 592 mm
030022-11	11 circuits	length (L) 642 mm
030022-12	12 circuits	length (L) 692 mm







Multinox - heating & cooling



Multinox standard MB-ER17

consisting of manifold 1" (030001-2 to 030001-12) incl. insulation set (040021-2 to 040021-12) and connection fittings (050002).

090371-2	02 circuits	length (L) 192 mm
090371-3	03 circuits	length (L) 242 mm
090371-4	04 circuits	length (L) 292 mm
090371-5	05 circuits	length (L) 342 mm
090371-6	06 circuits	length (L) 392 mm
090371-7	07 circuits	length (L) 442 mm
090371-8	08 circuits	length (L) 492 mm
090371-9	09 circuits	length (L) 542 mm
090371-10	10 circuits	length (L) 592 mm
090371-11	11 circuits	length (L) 642 mm
090371-12	12 circuits	length (L) 692 mm

Multinox standard MB-ER12

incl. connection fittings (050001), otherwise as 090371-2 to 090371-12; art. no. 090361-2 to 090361-12

Multinox standard MB-ER22

without connection fittings but incl. clamping joints ET (050033) and connection set (050112-1), otherwise as 090371-2 to 090371-12; art. no. 090374-2 to 090374-12

Multinox constant flow regulators MB-ER17

consisting of manifold 1" (030021-2 to 030021-12) incl. insulation set (040021-2 to 040021-12) and connection fittings (050002).

090373-2 090373-3 090373-4 090373-5 090373-6 090373-7 090373-8 090373-9 090373-10	02 circuits 03 circuits 04 circuits 05 circuits 06 circuits 07 circuits 08 circuits 09 circuits	length (L) 192 mm length (L) 242 mm length (L) 292 mm length (L) 342 mm length (L) 392 mm length (L) 442 mm length (L) 492 mm length (L) 542 mm length (L) 592 mm
		3 ()



Multinox flow indicators MB-ER17

consisting of manifold 1" (030011-2 to 030011-12) incl. insulation set (040021-2 to 040021-12) and connection fittings (050002).

090372-2	02 circuits	length (L) 192 mm
090372-3	03 circuits	length (L) 242 mm
090372-4	04 circuits	length (L) 292 mm
090372-5	05 circuits	length (L) 342 mm
090372-6	06 circuits	length (L) 392 mm
090372-7	07 circuits	length (L) 442 mm
090372-8	08 circuits	length (L) 492 mm
090372-9	09 circuits	length (L) 542 mm
090372-10	10 circuits	length (L) 592 mm
090372-11	11 circuits	length (L) 642 mm
090372-12	12 circuits	length (L) 692 mm

Multinox flow indicators MB-ER12

incl. connection fittings (050001), otherwise as 090372-2 to 090372-12; **art. no.** 090362-2 to 090362-12



Multinox constant flow regulators MB-ER12

incl. connection fittings (050001), otherwise as 090373-2 to 090373-12; **art. no.** 090363-2 to 090363-12





















In-wall cabinet for manifold 1"

The built-in frame is made of hot-dip galvanised sheet steel. The cabinet feet are height-adjustable (180 mm). The screed baffle plate is removable and adjustable. The pipe deflection rail is removable. The front panel with four insertion latches is removable and adjustable (110 - 150 mm) and is completely galvanised and painted pure white (RAL 9016). The plug-in door with turning bolt is integrated in the front panel. Completely packed in a protective box, the fronts are additionally packed. Adjustable support rails for manifold bars are available. Locks are optionally available.

060001-1	size 1	489 x (712-892) x (111-150) mm	
060001-2	size 2	724 x (712-892) x (111-150) mm	
060001-3	size 3	1024 x (712-892) x (111-150) mm	
060001-4	size 4	1474 x (712-892) x (111-150) mm	
060701-1	Door and fr	ame lacquered for 060001-1	
060701-2	Door and frame lacquered for 060001-2		
060701-3	Door and frame lacquered for 060001-3		
060701-4	Door and frame lacquered for 060001-4		
060711-1	Screed baff	le plate lacquered for 060001-1	
060711-2	Screed baff	le plate lacquered for 060001-2	
060711-3	Screed baff	le plate lacquered for 060001-3	
060711-4	Screed baff	le plate lacquered for 060001-4	



On-wall cabinet for manifold 1"

The On-wall cabinet is made of galvanised sheet steel and painted pure white (RAL 9016). The cabinet feet are height-adjustable (180 mm), the screed baffle plate is removable. Plug-in door with plastic turning bolt, locks are optionally available. The Onwall cabinet is completely packed in a protective box. Adjustable support rails for distributor bars are available.

size A	496 x (622-802) x 125 mm
size B	731 x (622-802) x 125 mm
size C	1031 x (622-802) x 125 mm
size D	1481 x (622-802) x 125 mm
	size B size C

060741 060742	Cylinder lock with key, for all cabinets Insertion latches for all In-wall cabinets
060721-1	Screed baffle plate zinc-plated for 060001-1
060721-2	Screed baffle plate zinc-plated for 060001-2
060721-3	Screed baffle plate zinc-plated for 060001-3
060721-4	Screed baffle plate zinc-plated for 060001-4

Cabinet selection	Cabinet 1" Standard, Flow indi- cator, Constant flow regulator	Cabinet 1" with calorimeter installation set vertical	Cabinet 1" with calorimeter installation set horizontal	Cabinet 1" Fixed value control set 1"	Cabinet 1" Fixed value control set 1" with calorimeter in- stallation set vertical and 2 fittings	Cabinet 1" Fixed value control set 1" with calorimeter installation set hori- zontal and 2 fittings
02 circuits	1/A	1/A	2/B	2/B	2/B	3/C
03 circuits	1/A	1/A	2/B	2/B	2/B	3/C
04 circuits	1/A	1/A	2/B	2/B	2/B	3/C
05 circuits	2/B	2/B	2/B	3/C	3/C	4/D
06 circuits	2/B	2/B	3/C	3/C	3/C	4/D
07 circuits	2/B	2/B	3/C	3/C	3/C	4/D
08 circuits	2/B	2/B	3/C	3/C	3/C	4/D
09 circuits	2/B	2/B	3/C	3/C	4/D	4/D
10 circuits	3/C	3/C	3/C	3/C	4/D	4/D
11 circuits	3/C	3/C	3/C	4/D	4/D	4/D
12 circuits	3/C	3/C	4/D	4/D	4/D	4/D
13 circuits	3/C	3/C	4/D	4/D	4/D	4/D
14 circuits	4/D	4/D	4/D	4/D	4/D	-







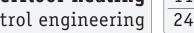








Control engineering



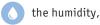


Symondo Sensor (room thermostat)

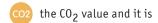
This digital individual room thermostat controls and measures



the temperature for heating and cooling,









The Symondo sensor is equipped with a built-in multi-sensor and digital communication via 1-wire bus or with an integrated WLAN module. Intuitive operation via integrated touch surfaces and LEDs, which are discreetly integrated into the plastic panel in standby mode. Constant monitoring of the air quality via colored status LEDs. Versatile installation options for flush mounting in standard switch frames or as a surface-mounted version.

070063 Symondo Sensor (wired) 070064 Symondo Sensor WLAN (wireless)



Symondo Controller (Symondo Box Control)

Elegant controller for controlling the Symondo Box with a capacitive TFT touch panel, optionally with an integrated WLAN module and a suitable smartphone app for convenient remote control and optimisation of the heating system.

070062 Symondo Controller (wired) 070061 Symondo Controller WLAN (wired)



Symondo Box (strip terminal)

This strip terminal for heating and cooling works in conjunction with at least one Symondo Controller.

- · Convenient commissioning, system configuration and system maintenance by touch via the Symondo Controller or via the martdevice app;
- · Switchover from heating to cooling mode and permanent dew point monitoring based on the relative humidity in the room;
- · The Symondo Box controls up to 8 Symondo Sensors and 32 actuators.
- · Symondo is modularly expandable to network several Symondo boxes;
- · Selectable functions for free outputs: weather-compensated heating circuit, boiler contact, etc.;

070060 Symondo Box

	230 VAC
	24 VDC, 5 VDC, 3.3 VDC
	9
	2
	3
	max. 12 W
	14
*01	up to 20
*02	up to 8 Symondo Sensors
*03	2 x CAN & 1-Wire
*04	230 VAC on/off/PWM
*05	0 - 10 V or PWM
*06	8 x 4
*07	yes
	yes
*07	yes
*07	yes
*08	yes
*09	8 per zone
*09	for each zone
*09	for each zone
*09	8 per zone
*09	for each zone
*09	for each zone
*10	yes
	yes
	*02 *03 *04 *05 *06 *07 *07 *07 *07 *08 *09 *09 *09 *09 *09

- *O1 By 1-wire bus up to 20 sensors, additional temperature sensors by CAN network or WLAN; *02 Up to 8 Symondo Sensors can be supplied by the Symondo Box with 5 V DC operating voltage from the 1-Wire bus.
- '03 Two separate CAN networks, 1 x private (appartment), 1 x heating system (building);
- *04 Via 230 VAC relays on/off, or speed-controlled via PWM;
- *05 Flow temperature control is done according to room temperature, optionally weather-compensated or combination of weather-compensation with room temperature influence;
- *06 Up to 8 heating zones with up to 4 x 230 VAC actuators as NO or NC design also with PID control; *07 Potential-free relay contact, 0 10 V or PWM signal or via CAN network;
- *08 Free assignable function on one of the relay or V outputs; *09 Adjustable via Symondo Controller;
- *10 Via Symondo Controller/Sensor in each zone where it is installed separately.









Control engineering



Symondo Sensor On-Wall

Mounting set consisting of a single frame (10 mm) and a surface frame (40 mm total height) for 55 mm insert; Provides sufficient space for Symondo Sensors. Pure white (RAL9003) plastic surface mount frame, 80mm x 80mm, matte eroded finish with UV protection.

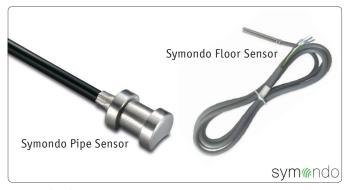


Symondo Sensor Frame

Single frame for 55 mm insert for Symondo Sensor, 80 mm x 80 mm matt eroded finish (pure white, RAL9003) with UV protection.

070071 Symondo Sensor Frame

070070 Symondo Sensor On-Wall



Symondo Pipe Sensor

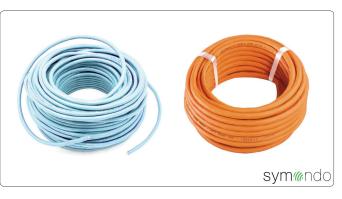
For use on the 1-wire bus of the Symondo Box as a pipe contact sensor;

070072 Symondo Pipe Sensor

Symondo Floor Sensor

For use on the 1-Wire bus of the Symondo Box as a floor sensor;

070073 Symondo Floor Sensor





Symondo Outside Sensor

For use on the 1-Wire bus of the Symondo Box as an outside sensor;

070074 Symondo Outside Sensor

Symondo Controller Cable

Shielded twisted pair CAN connection cable (6-core) as a 100 m roll, 3 x 2 x 0.22 mm²;

070075 Symondo Controller Cable

Symondo Sensor Cable

Shielded twisted pair 1-wire connection cable as a 100 m roll, $2 \times 2 \times 0.75 \text{ mm}^2$;

070076 Symondo Sensor Cable









Control engineering





Actuator Basic

Currentless closed, M30 x 1.5, ready to plug in, noiseless, can be mounted upside down, rotary knob for manual operation at any time;

070001 Actuator Basic 230 V, 50/60 Hz, 070002 Actuator Basic 24 V, 0-60 Hz Protection class IP54 Stellweg 4.5 mm Actuating force 100 N Media temp. max. 100 °C, Ambient temp. max. 60 °C min. 2,500 V Surge nach EN 60730-1 Width 39 mm Operating output 1.2 W Connection cable 2 x 0.75 mm² acc. EN 60730 length 0.8 m



Strip terminal Basic

For wiring the actuators, up to 6 or 10 room controllers and 15 or 21 actuators can be connected.

O70011 Strip terminal Basic 230/24 V up to 6 zones

only for heating

070011-1 Strip terminal Basic 230/24 V up to 10 zones

only for heating

O70012 Strip terminal Basic H/K with pump logic up to

6 zones for heating and cooling

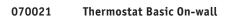
070012-1 Strip terminal Basic H/K with pump logic up to

10 zones for heating and cooling



Thermostat Basic On-wall

Room thermostat (RAL 9010) with setting wheel, on-wall version, power supply 230 V, 230 V output, temperature range 5-30 °C, frost protection function, can be limited and blocked, no connection option for floor sensor.



Thermostat Basic In-wall

Room thermostat (RAL 9010) with setting wheel, in-wall version, power supply 230 V, 230 V output, temperature range 5-30 °C, frost protection function, can be limited and blocked. Can be used for the switch series from the manufacturers Busch-Jaeger, Berker, Jung, GIRA, Merten, Legrand, Peha and Hager.

070023 Thermostat Basic In-wall



Thermostat Basic On-wall LED

Room thermostat (RAL 9010) in a programmable version with LED display, on-wall version, power supply 230 V, 230 V output, temperature range 5-35 °C, frost protection function, actual temperature display, limitable, anti-blocking function of the valve spindle, PWM control, seven pre-programmed schedules, heating/cooling function, floor sensor connection option.

070022 Thermostat Basic On-wall

Thermostat Basic In-wall LED

Room thermostat (RAL 9010) in a programmable version with LED display, in-wall version, power supply 230 V, 230 V output, temperature range 5-35 °C, frost protection function, actual temperature display, limitable, anti-blocking function of the valve spindle, PWM control, seven pre-programmed schedules, heating/cooling function, floor sensor connection option.

070024 Thermostat Basic In-wall LED









Control engineering

14 24



Due point sensor Basic

For integration into an existing NC/NO system, supply voltage 24 V. For switching off if there is a risk of condensation during the cooling application.

070707 Due point sensor Basic



RTB

The return temperature limiter keeps the room temperature constant at \pm 0.5 °C (installation dimensions: length 65 mm, depth 65 – 75 mm), 34'' x 34'' ET, for installation in the return; Use of applicable standards and laws;

050111 RTB





Heating manifold accessories



Extension for stainless steel manifold 1"

Flow and return components for extending manifolds 1" with additional heating circuits; installation length 80 mm, incl. O-ring seal for manifold end plugs;

040001	Extension thermostatic valve		
	(KVS-value = $2,75 \text{ m}^3/\text{h}$), prepared for on-site		
	installation of electrothermal actuators		
040002	Extension regulation insert		
	$(KVS-value = 2,88 \text{ m}^3/h)$		
040003	Extension flow indicator		

0-3 l/min (KVS-value = $1,12 \text{ m}^3/\text{h}$)

Extension constant flow regulator
 0-5 l/min, prepared for on-site installation of electrothermal actuators



Insulation set 1"

For insulating the manifold 1" when heating and cooling, easy to slip over, even when retrofitting, sufficient clips for fastening, screws (M6 x 25) for better connection of the clamps to the wall bracket of the manifold.

040021-2	2 circuits	040021-8	8 circuits
040021-3	3 circuits	040021-9	9 circuits
040021-4	4 circuits	040021-10	10 circuits
040021-5	5 circuits	040021-11	11 circuits
040021-6	6 circuits	040021-12	12 circuits
040021-7	7 circuits		



Ball valve set 1"

040033

040005

Two ball valves 1", red and blue, flat sealing, length without thread 56 mm, length with thread 72 mm, incl. flat seal 1"



Corner ball valve set 1"

040032 Corner ball valve set 1" incl. seal, red







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Product catalogue Underfloor heating

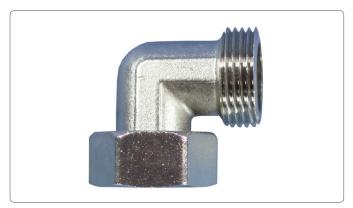
Heating manifold accessories



Calorimeter installation set horizontal

The flow section contains 1 x ball valve $\frac{3}{4}$ " IT x 1" ET with immersion sensor connection IT. The installation section, 110 mm long, up to $Q_n = 2.5$ m $\frac{3}{h}$, is located in the return and contains 1 x ball valve 1" ET x $\frac{3}{4}$ " union screw connection and 1 x ball valve $\frac{3}{4}$ " IT x $\frac{3}{4}$ " union screw connection with immersion sensor connection IT. The immersion sensor connections in flow and return are suitable for immersion sensors DS (DIN EN 1434-2) ET M10x1 for measuring the flow and return temperature. The connections for flow and return lines are $\frac{3}{4}$ " IT.

040051 Calorimeter installation set horizontal



Connection elbow 90°

040081 1" ET x 1" union screw conncetion, flat sealing



Screw conncetion

When using fixed value control set $1^{\prime\prime}$ and calorimeter installtion set

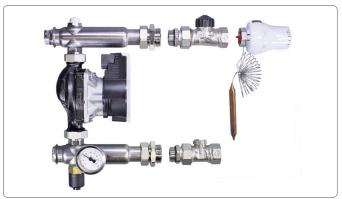
040082 3/4" ET x 1" IT



Calorimeter installation set vertical

The flow section contains 1 x 90° bend 34" ET x 1" ET such as 1 x ball valve 34" IT x 34" ET union screw connection with immersion sensor connection IT. The installation section, 110 mm long, up to $Q_n = 2.5 \text{ m}^3/\text{h}$, is located in the return and contains 1 x corner ball valve 1" ET x 34" union screw connection and 1 x ball valve 34" IT x 34" union screw connection with immersion sensor connection IT. The immersion sensor connections in flow and return are suitable for immersion sensors DS (DIN EN 1434-2) ET M10x1 for measuring the flow and return temperature. The connections for flow and return lines are 34" IT.

040052 Calorimeter installation set vertical



Fixed value control set

For underfloor heating, for connection to systems with higher flow temperatures, e.g. radiators, for reducing the flow temperature on the primary side, incl. pump Wilo-Para 15-130/4-20/SC. MULTIBETON recommends using the strip terminal H/K with pump logic.

040071-4 Fixed value control set









Heating manifold accessories

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Strap-on thermometer 040706 Strap-on thermometer 0 - 60 °C



Thermostatic valve insert E (for stainless steel manifold 1")

040707 Thermostatic valve insert E to install actuators



Regulation insert (for stainless steel manifold 1")
040708 Regulation insert



Connection nipple 3/4" short (for stainless steel manifold 1")

O40709 Connection nipple 3/4" short with Eurocone for thermostatic valve insert and regulation insert



Flow indicator (for stainless steel manifold 1")
040701 Flow indicator 0 - 5 l

Flow indicator 0 - 3 l



Connection nipple 3/4" long (for stainless steel manifold 1")

O40704 Connection nipple 3/4" long with Eurocone for flow indicator



Red cap
040710 Red cap for flow indicator



Service valve (for stainless steel manifold 1")

O40711 Service valve for rinsing, filling, and draining the manifold

MULTIBETON GmbH, Heuserweg 23, 53842 Troisdorf-Spich, Phone +49 2241 25200-0, Fax +49 2241 25200-99

E-Mail info@multibeton.com, Internet www.multibeton.com







040703



Heating manifold accessories



Adjustment wrench
040705 Tool for setting the flow rate
with flow indicator 0 - 3 l





Thermostatic valve insert M (for brass manifold 1")

O40713 Thermostatic valve insert 3/8" ET

for actuator M 30 x 1"



Actuator M (for brass manifold)
040717 Actuator 230 V without adapter
040718 Actuator 24 V without adapter



Thermostatic valve insert M (for brass manifold 5/4")
040715 Thermostatic valve insert 1/2" ET
for actuator M 30 x 1,5"



Thermostatic head with sensor

040720 for fixed value control set 1",
control range 20 - 50 °C



Safety temperature switch
040719 for fixed value control set 1",
shutdown temperature 55 °C



Pump Wilo Para 15-130/4
040712 for fixed value control set 1",
with pump pluq and cable











Connection fitting (for stainless steel manifold 1")

050001 3/4" IT for 12.0 mm x 2.2 mm 050002 3/4" IT for 17.0 mm x 2.2 mm



Angle coupling

050021 12.0 mm x 2.2 mm 050022 17.0 mm x 2.2 mm



Coupling

050011 12.0 mm x 2.2 mm 050012 17.0 mm x 2.2 mm





Clamping joint ET

050031 ½" ET for 12.0 mm x 2.2 mm 050032 ½" ET for 17.0 mm x 2.2 mm 050033 ¾" ET for 22.0 mm x 2.4 mm

Clamping joint IT

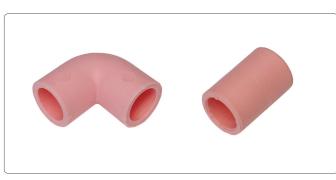
050041 ½" IT for 12.0 mm x 2.2 mm 050042 ½" IT for 17.0 mm x 2.2 mm



Connection set

For connecting the RTB to the heating circuit manifold and for connecting the MB-ER22 to the manifold in conjunction with an screw connection ET 22.0 mm x 2.4 mm

O50112-1 Connection set 3/4" IT x 3/4" IT, length 30 mm



MB Welding sleeve

Only to extend the MB-SR17 $\,$

 050101
 MB Welding sleeve 17
 10 pc./bag

 050102
 MB Welding bend 17
 10 pc./bag









Pipe support fixed

Fixing of the MB system pipes at a fixed angle of 90°, e.g. in the manifold cabinet or for wall and ceiling ducts, no sharp edges or burrs, excellent sound insulation properties, highly heat-resistant, extremely stable nylon

080001 Pipe support fixed



Pipe support vario



Protection tube

Black, slotted, as pipe ducts in movement joints, 30 cm long/protection tube

080015-15 17,0 x 2,2 mm 50 pc./15 m 080015-50 17,0 x 2,2 mm 50 m/roll 080016-50 22,0 x 2,4 mm 50 pc./box



RYGOROLL

Impact sound insulation roll EPS 040 DES sg 20-2 mm and 30-2 mm, self-adhesive **080423-20**

RYGOROLL 20 mm 10 m²/roll **080423-30**

RYGOROLL 30 mm 10 m²/roll



Dry fill

For leveling, filling and insulating against heat, cold and noise made from the purest natural raw materials; can be used unbound in liquid screed

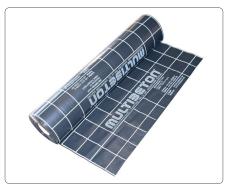
080351-60 60 l/bag



Foil insulation

Multi-layer heat and impact sound insulation, approx. 6.5 mm flat

080352-20 20 m²/roll



MB-PEF

Polyethylene foil printed with MULTIBE-TON installing grid (10 cm) and guaranteed to be 0.2 mm thick

080011sw 200 m²/roll



MB-SKB

Adhesive tape for sealing the MB-PEF with liquid screed, tested and proven even at sub-zero temperatures, 5 cm wide

080013-66 66 m/roll



Edge insulation strip

with overlap foil, 150 mm (h) x 10 mm (w) **080012-25** 25 m/roll





Complementary products

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Expansion joint profile FLS 80 mm (h) x 10 mm (w) 080306-80 Expansion joint profile FLS 1 profile = 1 m



Hold-down grid
Against floating with liquid screed (e.g. ESF-55/50), 2 m wide, made of HDPE, mesh size 11 mm x 4 mm
080014-200 Hold-down grid

custom length



Sealing roll
Moisture barrier with adhesive strip to protect insulation and floor surfaces against rising damp according to DIN/EN, roll size 1.25 m x 40 m; thickness: 3 mm foam backing + 0.3mm PE film = 3.3mm

080017-50

50 m²/roll



Sealing tape

Self-adhesive moisture barrier to protect insulation and floor surfaces against rising damp according to DIN/EN, roll size 0.02 m x 15 m; thickness: 3 mm foam backing + 0.3mm PE film = 3.3mm 080017-15 15 m/roll









Complementary products

22

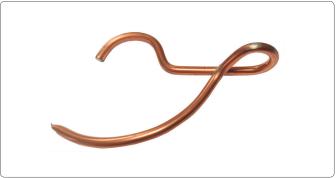


Pulley

Assembly aid consisting of a deflection pulley with screw clamp for variable and supporting pipe routing

080124 Pulley





Fixing anchor

The anchor is used for short-term directional guidance of the MB system pipes on the insulation layer. This assembly aid can be removed again after laying.

080115 Fixing anchor 1 bag = 20 pc.

Installation tools

The MB installation device (MB-VT and MB-VH) can be borrowed or ordered on a license basis. The toolboxes are provided on loan.

080101 MB-VT (installation heating boiler)

080102 MB-VH (downcoiling unit) 080103 Schuko plug adapter France

080112 Toolbox for TRB-17 080113 Toolbox for FLS 35/27







Complementary products

24



MB-KWS (cooling water station for MGA-40 & MWA) Consisting of booster pump, pressure hose, suction hose and Geka couplings

080141 MB-KWS on loan



Clip rail cutter
Cutting the MB Steel clip rails (MB-CS17/12)
080121 Clip rail cutter



Pipe cutter
To cut MB System pipes
080122 Pipe cutter



Binding machine The binding machine for fixing the MB System pipes to a reinforcement (e.g. MFF & MTB) is provided for rent against a deposit and fee. Availability should be checked at least 4 weeks prior to site use.

080131 deposit 080301 loan fee up to 2,999 m MB System pipe 080302 loan fee starting from 3,000 m MB System pipe



Binding wire

1 roll is sufficient for approx. 120 bindings, which corresponds to approx. 100 m MB Euro system pipe 22 (MB-ER22) or MB Euro system pipe 17 (MB-ER17), depending on the binding frequency.

080132 Binding wire ca. 100 m/roll



Starter kit

Consisting of pipe cutter, clip rail cutter, coupling, connection fitting, lighter and folding ruler

080123 Starter kit









Software & Services





MULTIBETON

Multiplaner

Consisting of HT2000 with fully integrated MULTIBETON database as online version incl. CAD module and heat load calculation **000265 Multiplaner** annual licence fee



