Technical Data Sheet

Preassembled cabinet GM



09/11/2022



Function

A fixed point heating system based on the GM 1192 combines a number of components in a single device able to maintain a pre-set temperature in the radiant panels circuit of a mixed heating system.

A thermostatic head placed onto the thermostatic valve keeps the temperature the temperature of the water entering the radiant panels at a pre-set constant value by mixing hot water coming from the boiler with the low temperature one circulating in the panels.

The system features a bypass valve which protects the components of the system by relieving pressure in case of an excessive differential pressure. This type of system can supply a max thermal power of 20 kW with a Δt of 10 °C and a temperature of \geq 70°C on the primary circuit.

Technical data

Max. working pressure: 6 bar 80 °C Max. temp. on primary circuit: Max. temp. on secondary circuit: 70 °C 1 bar Max. differential pressure: 20 kW Max. thermal power: 0 ÷ 80 °C Thermometer range: Flow-meter display range: 0 ÷ 5 l/min ± 10% Precision of flow-meter: Connection to secondary manifold: G 1" male Adjustment range of thermost. head.: 20 ÷ 65 °C Length of capillary: 2 m Pump max. working pressure: 6 bar

Fluid temperature: +0 °C ÷ +95 °C

Motor: Permanent magnet synchronous Power supply: 230 V (+10%;-15%), 50/60 Hz

Insulation class: F

Degree of protection: IP X4D

Working fluids: water in compliance with UNI 8065:2019

Materials Manifolds Manifold: CW 617 N - DW UNI-EN 12165:2016 Screw: CW 614 N - DW UNI-EN 12164:2016 Gaskets: Peroxide cured EPDM Flow-meters Flow-meter: Thermoresistant plastic material CW 614 N - DW UNI-EN 12164:2016 Body: Spring: Stainless steel Gaskets: Peroxide cured EPDM **Pump group** CW 617 N - DW UNI-EN 12165:2016 Group: CW 614 N - DW UNI-EN 12164:2016 Components: Gaskets: Peroxide cured EPDM Thermometer Case and stem: Galvanised steel Cover: Transparent plastic material Thermometric element: Bimetallic spiral spring Manual air vent valves CW 614 N - DW UNI-EN 12164:2016 Valve body: Valve body: Thermoresistant plastic material Gaskets: Peroxide cured EPDM Fill/Drain taps Terminal body: CW 617 N - DW UNI-EN 12165:2016 CW 617 N - DW UNI-EN 12165:2016 Valve body: Peroxide cured EPDM Gaskets: **Pump** Pump body: GJL200 EN 1561 Gaskets: **EPDM** Rotor assembly: Ceramic, composite material Bearing: Carbon Thermostatic head Head: RAL9016 white ABS Range of adjustment: 20 ÷ 65 °C

Sensor: Liquid

Sensor stroke: 0.105 mm/K

Length of capillary: 2 m

Brackets

Brackets: Galvanised steel U-bolts: Galvanised steel

NBR Gaskets:

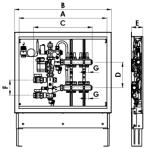
Surface treatment

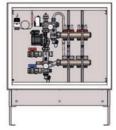
Nickel-plating

Dimensional Drawings

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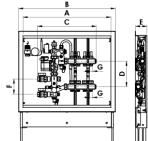
Low temperature fixed point distribution system. Connection type W24x19

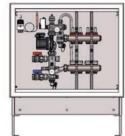




CCBP 4036

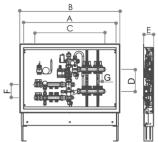
Low temperature fixed point distribution system. Connection type Eurokonus





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Code	Size	Α	В	С	D	Е	Code	Size	Α	В	С	D	E
17402602N	G1"xW24x19	500	560	360	200	90	17403602N	G1"xG3/4Ek	500	560	360	200	90
17402603N	G1"xW24x19	700	760	410	200	90	17403603N	G1"xG3/4Ek	700	760	410	200	90
17402604N	G1"xW24x19	700	760	460	200	90	17403604N	G1"xG3/4Ek	700	760	460	200	90
17402605N	G1"xW24x19	700	760	510	200	90	17403605N	G1"xG3/4Ek	700	760	510	200	90
17402606N	G1"xW24x19	700	760	560	200	90	17403606N	G1"xG3/4Ek	700	760	560	200	90
17402607N	G1"xW24x19	850	910	610	200	90	17403607N	G1"xG3/4Ek	850	910	610	200	90
17402608N	G1"xW24x19	850	910	660	200	90	17403608N	G1"xG3/4Ek	850	910	660	200	90
17402609N	G1"xW24x19	850	910	710	200	90	17403609N	G1"xG3/4Ek	850	910	710	200	90
17402610N	G1"xW24x19	1000	1060	760	200	90	17403610N	G1"xG3/4Ek	1000	1060	760	200	90
17402611N	G1"xW24x19	1000	1060	810	200	90	17403611N	G1"xG3/4Ek	1000	1060	810	200	90
17402612N	G1"xW24x19	1000	1060	860	200	90	17403612N	G1"xG3/4Ek	1000	1060	860	200	90
17402613N	G1"xW24x19	1200	1260	910	200	90	17403613N	G1"xG3/4Ek	1200	1260	910	200	90
Code	Size	F	G	Н	L	М	Code	Size	F	G	Н	L	М
Code 17402602N	Size G1"xW24x19	F 120	G W24x19	H -	L -	M -	Code 17403602N	Size G1"xG3/4Ek	F 120	G G3/4Ek	H -	L -	M -
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17402602N	G1"xW24x19	120	W24x19	-	-	-	17403602N	G1"xG3/4Ek	120	G3/4Ek	-	-	M - -
17402602N 17402603N	G1"xW24x19 G1"xW24x19	120 120	W24x19 W24x19	-	-	-	17403602N 17403603N	G1"xG3/4Ek G1"xG3/4Ek	120 120	G3/4Ek G3/4Ek	-	-	M
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17402602N 17402603N 17402604N 17402605N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120	W24x19 W24x19 W24x19 W24x19	- - -	- - -	- - -	17403602N 17403603N 17403604N 17403605N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek		- - -	M
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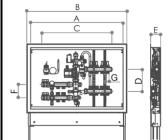
Low temperature distribution system + 2 connections for high temperature Connection type W24x19





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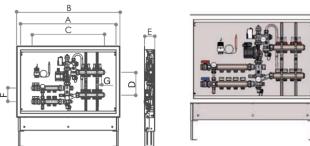
Low temperature distribution system + 3 connections for high temperature Connection type W24x19





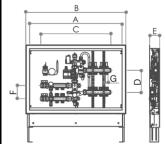
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17402503N	G1"xW24x19	700	760	590	200	90	17402703N	G1"xW24x19	850	910	640	200	90
17402504N	G1"xW24x19	850	910	640	200	90	17402704N	G1"xW24x19	850	910	690	200	90
17402505N	G1"xW24x19	850	910	690	200	90	17402705N	G1"xW24x19	850	910	740	200	90
17402506N	G1"xW24x19	850	910	740	200	90	17402706N	G1"xW24x19	1000	1060	790	200	90
17402507N	G1"xW24x19	1000	1060	790	200	90	17402707N	G1"xW24x19	1000	1060	840	200	90
17402508N	G1"xW24x19	1000	1060	840	200	90	17402708N	G1"xW24x19	1000	1060	890	200	90
17402509N	G1"xW24x19	1000	1060	890	200	90	17402709N	G1"xW24x19	1200	1260	940	200	90
17402510N	G1"xW24x19	1200	1260	940	200	90	17402710N	G1"xW24x19	1200	1260	990	200	90
17402511N	G1"xW24x19	1200	1260	990	200	90	17402711N	G1"xW24x19	1200	1260	1040	200	90
17402512N	G1"xW24x19	1200	1260	1040	200	90	17402712N	G1"xW24x19	1200	1260	1090	200	90
17402513N	G1"xW24x19	1200	1260	1090	200	90	17402713N	G1"xW24x19	1300	1360	1140	200	90
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17402503N 17402504N 17402505N	G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120	W24x19 W24x19 W24x19		- - -		17402703N 17402704N 17402705N	G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120	W24x19 W24x19 W24x19	- - -		- - - - -
17402503N 17402504N 17402505N 17402506N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120	W24x19 W24x19 W24x19 W24x19		- - -	- - -	17402703N 17402704N 17402705N 17402706N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120	W24x19 W24x19 W24x19 W24x19			- - - - - -
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17402503N 17402504N 17402505N 17402506N 17402507N 17402508N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120 120	W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19	- - - -	- - - -	- - - -	17402703N 17402704N 17402705N 17402706N 17402707N 17402708N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120 120	W24x19 W24x19 W24x19 W24x19 W24x19 W24x19	- - - -	- - - -	- - - - - - - - -
17402503N 17402504N 17402505N 17402506N 17402507N 17402508N 17402509N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120 120 120	W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19		- - - - -	- - - - -	17402703N 17402704N 17402705N 17402706N 17402707N 17402708N 17402709N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120 120 120	W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19	- - - - -	- - - - -	- - - - - - - - - - - - - - - - - - -
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Low temperature distribution system + 4 connections for high temperature.
Connection type W24x19



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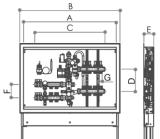
Low temperature distribution system + 2 connections for high temperature.
Connection type Eurokonus

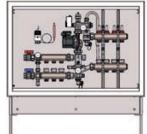




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17407904N	G1"xW24x19	850	910	740	200	90	17403504N	G1"xG3/4Ek	850	910	640	200	90
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17407907N	G1"xW24x19	1000	1060	890	200	90	17403507N	G1"xG3/4Ek	1000	1060	790	200	90
17407908N	G1"xW24x19	1200	1260	940	200	90	17403508N	G1"xG3/4Ek	1000	1060	840	200	90
17407909N	G1"xW24x19	1200	1260	990	200	90	17403509N	G1"xG3/4Ek	1000	1060	890	200	90
17407910N	G1"xW24x19	1200	1260	1040	200	90	17403510N	G1"xG3/4Ek	1200	1260	940	200	90
17407911N	G1"xW24x19	1200	1260	1090	200	90	17403511N	G1"xG3/4Ek	1200	1260	990	200	90
17407912N	G1"xW24x19	1300	1360	1140	200	90	17403512N	G1"xG3/4Ek	1200	1260	1040	200	90
17407913N	G1"xW24x19	1300	1360	1190	200	90	17403513N	G1"xG3/4Ek	1200	1260	1090	200	90
Code	Size	F	G	Н	L	М	Code	Size	F	G	Н	L	М
17407902N	G1"xW24x19	120	W24x19	-	-	-	17403502N	G1"xG3/4Ek	120	G3/4Ek	-	-	-
17407902N 17407903N	G1"xW24x19 G1"xW24x19	120 120	W24x19 W24x19	-	-	-	17403502N 17403503N	G1"xG3/4Ek G1"xG3/4Ek	120 120	G3/4Ek G3/4Ek	-	-	-
													- - -
17407903N	G1"xW24x19	120	W24x19	-		-	17403503N	G1"xG3/4Ek	120	G3/4Ek		-	- - - -
17407903N 17407904N	G1"xW24x19 G1"xW24x19	120 120	W24x19 W24x19	-		-	17403503N 17403504N	G1"xG3/4Ek G1"xG3/4Ek	120 120	G3/4Ek G3/4Ek	-	-	- - - -
17407903N 17407904N 17407905N	G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120	W24x19 W24x19 W24x19		- -	- -	17403503N 17403504N 17403505N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120	G3/4Ek G3/4Ek G3/4Ek	-		- - - - -
17407903N 17407904N 17407905N 17407906N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120	W24x19 W24x19 W24x19 W24x19	- - -	- - -	- - -	17403503N 17403504N 17403505N 17403506N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - -		- - - - - -
17407903N 17407904N 17407905N 17407906N 17407907N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120	W24x19 W24x19 W24x19 W24x19 W24x19	- - - -	- - -	- - - -	17403503N 17403504N 17403505N 17403506N 17403507N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - -		- - - - - - -
17407903N 17407904N 17407905N 17407906N 17407907N 17407908N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120 120	W24x19 W24x19 W24x19 W24x19 W24x19 W24x19	- - - -	- - - -	- - - -	17403503N 17403504N 17403505N 17403506N 17403507N 17403508N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - -	- - - -	- - - - - - - -
17407903N 17407904N 17407905N 17407906N 17407907N 17407908N 17407909N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120 120 120	W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19	- - - - -	- - - - -	- - - - -	17403503N 17403504N 17403505N 17403506N 17403507N 17403508N 17403509N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - - -	- - - - -	- - - - - - - - -
17407903N 17407904N 17407905N 17407906N 17407907N 17407908N 17407909N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120 120 120 120	W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19 W24x19		- - - - -	- - - - -	17403503N 17403504N 17403505N 17403506N 17403507N 17403508N 17403509N 17403510N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - - - -	- - - - -	- - - - - - - - - -
17407903N 17407904N 17407905N 17407906N 17407907N 17407909N 17407910N 17407911N	G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19 G1"xW24x19	120 120 120 120 120 120 120 120 120	W24x19		- - - - - -	- - - - - - -	17403503N 17403504N 17403505N 17403506N 17403507N 17403508N 17403509N 17403510N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - - - -	- - - - -	- - - - - - - - -

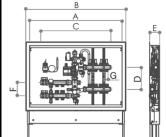
Low temperature distribution system + 3 connections for high temperature.
Connection type Eurokonus

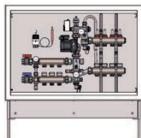




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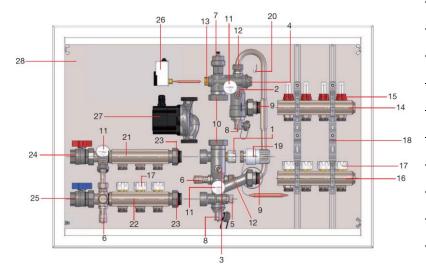
Low temperature distribution system + 4 connections for high temperature.
Connection type Eurokonus





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Code	Size	Α	В	С	D	Е	Code	Size	Α	В	С	D	E
17403702N	G1"xG3/4Ek	700	760	590	200	90	17408002N	G1"xG3/4Ek	850	910	640	200	90
17403703N	G1"xG3/4Ek	850	910	640	200	90	17408003N	G1"xG3/4Ek	850	910	690	200	90
17403704N	G1"xG3/4Ek	850	910	690	200	90	17408004N	G1"xG3/4Ek	850	910	740	200	90
17403705N	G1"xG3/4Ek	850	910	740	200	90	17408005N	G1"xG3/4Ek	1000	1060	790	200	90
17403706N	G1"xG3/4Ek	1000	1060	790	200	90	17408006N	G1"xG3/4Ek	1000	1060	840	200	90
17403707N	G1"xG3/4Ek	1000	1060	840	200	90	17408007N	G1"xG3/4Ek	1000	1060	890	200	90
17403708N	G1"xG3/4Ek	1000	1060	890	200	90	17408008N	G1"xG3/4Ek	1200	1260	940	200	90
17403709N	G1"xG3/4Ek	1200	1260	940	200	90	17408009N	G1"xG3/4Ek	1200	1260	990	200	90
17403710N	G1"xG3/4Ek	1200	1260	990	200	90	17408010N	G1"xG3/4Ek	1200	1260	1040	200	90
17403711N	G1"xG3/4Ek	1200	1260	1040	200	90	17408011N	G1"xG3/4Ek	1200	1260	1090	200	90
17403712N	G1"xG3/4Ek	1200	1260	1090	200	90	17408012N	G1"xG3/4Ek	1300	1360	1140	200	90
17403713N	G1"xG3/4Ek	1300	1360	1140	200	90	17408013N	G1"xG3/4Ek	1300	1360	1190	200	90
Code	Size	F	G	Н	L	М	Code	Size	F	G	Н	L	М
Code 17403702N	Size G1"xG3/4Ek	F 120	G G3/4Ek	H -	L -	M -	Code 17408002N	Size G1"xG3/4Ek	F 120	G G3/4Ek	H -	L -	M -
					L -								M - -
17403702N	G1"xG3/4Ek	120	G3/4Ek	-	-	-	17408002N	G1"xG3/4Ek	120	G3/4Ek	-	-	M - -
17403702N 17403703N	G1"xG3/4Ek G1"xG3/4Ek	120 120	G3/4Ek G3/4Ek	-	-	-	17408002N 17408003N	G1"xG3/4Ek G1"xG3/4Ek	120 120	G3/4Ek G3/4Ek	-	-	M
17403702N 17403703N 17403704N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120	G3/4Ek G3/4Ek G3/4Ek		-		17408002N 17408003N 17408004N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120	G3/4Ek G3/4Ek G3/4Ek			M
17403702N 17403703N 17403704N 17403705N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - -		- -	17408002N 17408003N 17408004N 17408005N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - -	- - -	M
17403702N 17403703N 17403704N 17403705N 17403706N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - -		- - -	17408002N 17408003N 17408004N 17408005N 17408006N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - -	- - - -	M
17403702N 17403703N 17403704N 17403705N 17403706N 17403707N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - -		- - - - -	17408002N 17408003N 17408004N 17408005N 17408006N 17408007N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - -	- - - -	M
17403702N 17403703N 17403704N 17403705N 17403706N 17403707N 17403708N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - - -	- - - - -	- - - - -	17408002N 17408003N 17408004N 17408005N 17408006N 17408007N 17408008N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - - -	- - - -	M
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17403702N 17403703N 17403704N 17403705N 17403706N 17403707N 17403708N 17403709N 17403710N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - - -	- - - - - -	- - - - - - -	17408002N 17408003N 17408004N 17408005N 17408006N 17408007N 17408008N 17408009N 17408010N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120 120 120	G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek G3/4Ek	- - - - - -	- - - - -	M
17403702N 17403703N 17403704N 17403705N 17403706N 17403707N 17403708N 17403710N 17403711N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120 120 120 120	G3/4Ek	- - - - - - - -	- - - - - - - -	- - - - - - - -	17408002N 17408003N 17408004N 17408005N 17408006N 17408007N 17408008N 17408009N 17408010N	G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek G1"xG3/4Ek	120 120 120 120 120 120 120 120 120 120	G3/4Ek	- - - - - - - -	- - - - - - - -	M

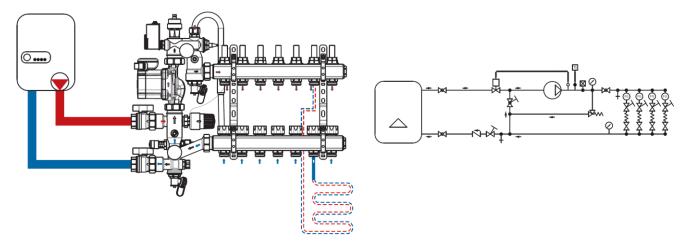
Construction



2.	Pump shut-offball valve
3.	Ball valve for pump interception and balancing of the secondary circuit
4.	Probe seat
5.	Low temperature circuit shut-off valve
6.	Differential bypass valve
7.	Automatic air vent valve
8.	Fill / drain taps with adjustable 3/4 connection and safety cap
9.	Three-piece G 1" union fittings with soft sealing art. CR 498
10.	G 1" 1/2 fittings to connect the circulation pump
11.	Thermometers
12.	Union fittings for bypass pipe
13.	Safety thermostat seat
14.	Delivery manifold (radiant panels)
15.	Regulators and flow meters
16.	Return manifold (radiant panels)
17.	Valves for electrothermal regulation, with protection caps
18.	Brackets
19.	Thermostatic head with remote sensor
20.	Spring to fix the probe
21.	Delivery manifold (primary circuit)
22.	Return manifold (primary circuit)
23.	Three-piece union fittings
24.	Delivery ball valve (boiler)
25.	Return ball valve (boiler)
26.	Immersion safety thermostat
27.	Circulation pump with 25/60 synchronous motor
28.	Cabinet with adjustable ends

1. Regulating valve

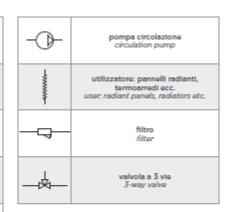
Hydraulic Functioning Scheme



Hydraulic Scheme Legend

→ ₩	valvola Intercettazione check valve
—bed—	valvola sfera bali valve
12	valvola non ritorno, la freccia indica il senso di flusso non-return valve, the arrow indicates the direction of flow
	valvola di sicurezza (valvola di bypass) safety valve (bypass valve)
_À	valvola intercettazione, regolazione e bilanciamento check valve, regulation and balancing
—wi—	valvola a sfera d'intercettazione, regolazione e bilanciamento ball check valve regulation and balancing
	valvola di inlezione con sensore a distanza injection valve with remote sensor

+	rubinetto di carico o scarico acqua water load/drain tap
9	termometro thermometer
<u> </u>	dispositivo di sfogo aria manuale maunal air vent device
I	dispositivo di sfogo aria automatico automatic air vent device
—FG—	misuratore di portata flow meter
	termostato di sicurezza ad immersione immersion safety thermostat
	termostato di sicurezza a contatto contact safety thermostat
H 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	automatic air vent device misuratore di portata flow meter termostato di sicurezza ad immersione immersion safety thermostat termostato di sicurezza a contatto



Function

Fixed point heating systems keep the water in the radiant panels at a constant pre-set temperature by mixing hot water coming from the boiler with the one circulating in the panels.

A thermostatic valve with remote sensor measures the temperature and adds hot water to the circuit accordingly, so as to compensate the heat output of the radiant panels.

It is advisable to install a security thermostat on the pump inlet valve in order to avoid damages caused by a sudden temperature rise.

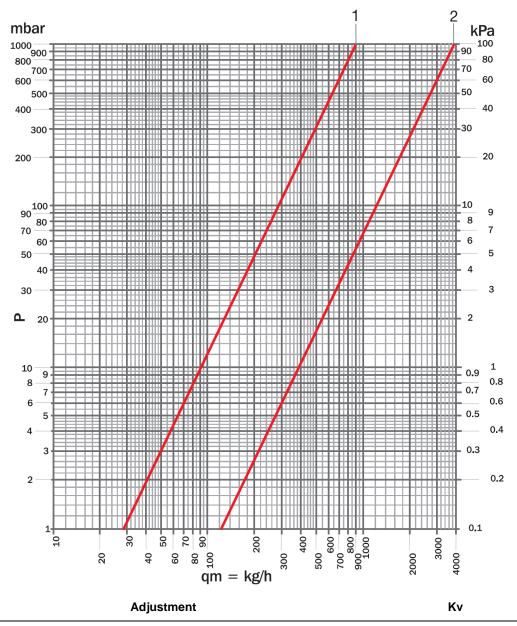
The intervention of the thermostat must block the functioning of the pump.

The system can be complemented with a bypass valve. In case of excessive differential pressure, the bypass valve releases the exceeding pressure, thus protecting the components and, if thermoelectric heads are employed to intercept the circuits, avoiding noise and wear on the circulation pump.

This type of system can supply a max thermal power of 20 kW with a Δt of 10°C and a temperature of \geq 70°C on the primary circuit.

Flow Rate Diagram

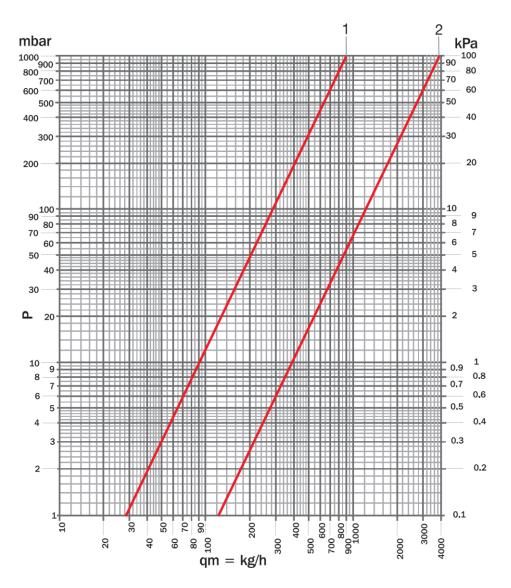
Regulating valve with thermostatic head



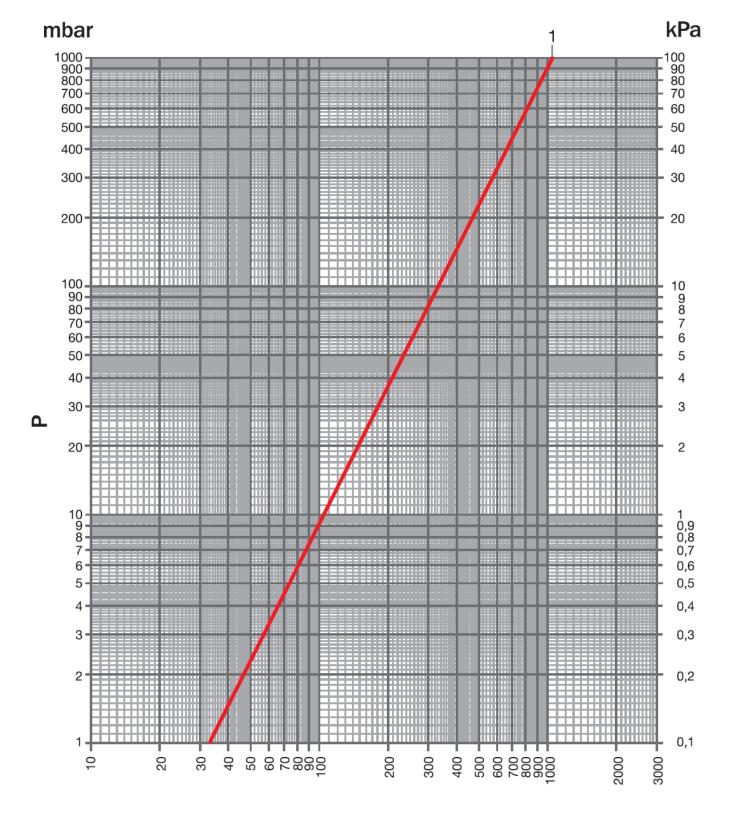
Curve	Adjustment	Kv
1	ΔT=2 K	0.9
2	QM MAX	3.88

Flow Rate Diagram

Shut-off valve



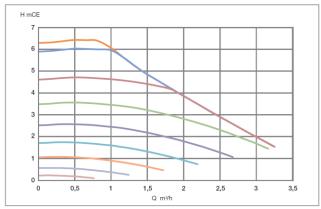
Curve	Adjustment	Kv
1	1/2	0.09
2	1	0.27
3	1+1/2	0.76
4	2	0.98
5	2+1/2	1.20
6	3	1.46
7	3+1/2	1.70
8	4	1.93
9	4+1/2	2.19
10	5	2.47
11	5+1/2	2.75
12	All open	3.01

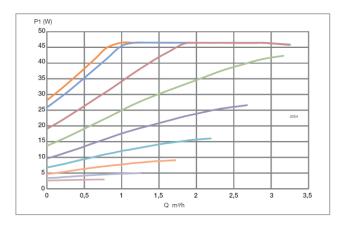


qm = kg/h

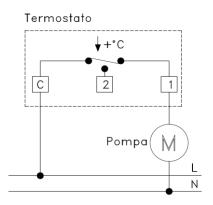
Curve	Kv	Items
1	0.99	CD 478M; CD 473M (for each outlet)
Max. recommended flow rate:		1600 l/h (on the manifold)

Pump Flow Rate Diagram





Electrical Connections



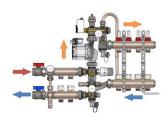
Safety Thermostat

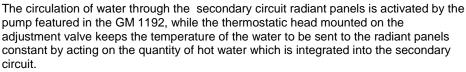
Connect the thermostat as in the scheme considering the following:

- Terminal C: phase;
- Terminal 1: opens the circuit when the temperature increases;
- Terminal 2: closes the circuit when the temperature increases.

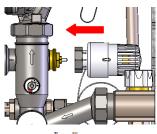
Generally, in heating systems the electric appliance is connected to terminals C and 1 of the thermostat

Working Instructions





The water returning to the primary circuit flows through the lockshield valve upon which it is possible to act in order to balance pressure drops. It is advisable to install a security thermostat on the pump inlet valve in order to avoid damages caused by a sudden temperature rise. The intervention of the thermostat must block the functioning of the pump.

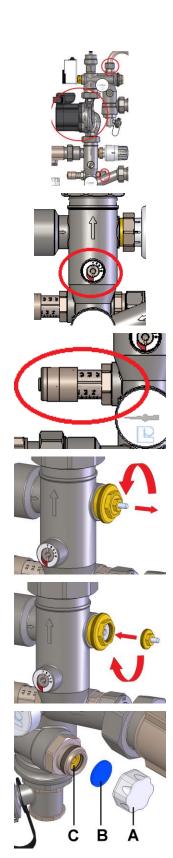


How to install the fixed point thermostatic head:

- The GM 1192 system is supplied with a plastic cap protecting the control stem of the adjustment valve. Remove the protection cap.
- To ease the installation, set the thermostatic head to the maximum value and screw it onto the valve.
- Set the head to the desired temperature.

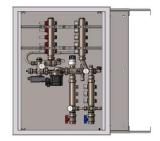


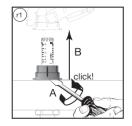
· Place the bulb of the head into the fastening device.



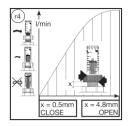
- Loosen the union fittings marked with "12" in the picture to ease the installation of the pump.
- Assemble the pump taking care to place it in the correct direction, which is upwards.
- After the installation, tighten back the fittings "12"
- The balancing ball valve "3" is adjusted by aligning the reference mark on the control stem with the scale by means of a 4 mm hex wrench.
- The bypass valve "6" is simply adjusted by turning the knob until the desired value.
- To substitute the whole tightening device of the thermostatic screw while the group is operating, proceed as follows:
 - Remove the protection cap, manual knob, thermostatic head or thermoelectric head;
 - Hold the screw body with a 19 mm wrench and unscrew the tightening device by means of a 9 mm wrench;
 - Replace the tightening device with the spare accessory and screw it by means of a 9 mm wrench;
 - Screw the protection cap, manual knob, thermostatic head or thermoelectric head back.
- To adjust the flow rate:
 - o Unscrew the ABS plug "A" where the gasket "B" is placed;
 - Without forcing, use a 5 mm Allen key to close the obturator "C";
 - Open the obturator for a number of turns as indicated on the flow rate diagram;
 - o Screw back the ABS plug "A".
- WARNING: Once the system has been leak tested, please relieve the pressure.
 A differential pressure over 1 bar between the inlet and the outlet of the valve may cause the sealing O-ring to be expelled.

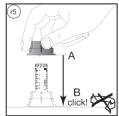


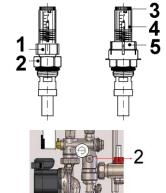












- Before starting the system it is important to check that:
 - All union fittings marked with "12" are perfectly tightened;
 - The check valve marked with "5" is completely open. To adjust the valve, unscrew the brass plug and act on the obturator by means of a 5 mm hex wrench.
- The value shown by the thermostatic head is indicative, the temperature of the water entering the radiant panels circuit can be read on the thermometer of the upper group.
- To avoid excessive noise in the system, do not use the thermostatic valve with ΔP values higher than 0,5 bar.
- Coupled with the pump PCE 755 art. 69011560, the GM 1192 system can be installed in a cabinet with a 90 mm internal usable depth.

The theoretic flow rate of a hydraulic circuit, assigned by a technician, is given by the adjustment carried out through the regulator/flow meters assembled on the delivery manifold. The adjustment must be carried out with the valve on the return circuit fully open. Since the flow rates of each heating ring affect each other, each single heating ring has to be adjusted until the values in litres/minute laid down in the project are satisfactorily reached.

How to adjust the flow rate:

- · Remove the red blocking collar.
- · Close the flow-meter.
- (a1) = Do not use tools, act manually on the flow-meter.
- Open the flow-meter until it shows the desired flow rate.
- Place the blocking collar back.

How to secure the hydraulic balance against tampering:

 The regulators/flow-meters adjustment can be secured through a block cap. If needed, the caps can be sealed with iron wire and lead.

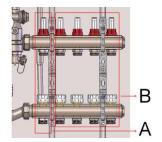
The glass and the measuring spring can be disassembled for cleaning:

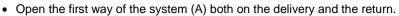
- Close the flow-meter and the corresponding valve placed on the ring return.
- Unscrew the glass applying strength on the collar and remove it.
- A negligible water leakage will appear during this operation.
- The glass can now be easily cleaned.
- To reassemble, follow the above instructions in reverse order.
- 1. Adjustment collar 2. Blocking collar 3. Glass collar
- 4. Glass 5. Block cap

The high temperature circuit must be filled directly from the boiler.

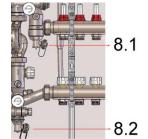
To fill the low temperature system, do as follows:

- Close the ball valve (2) with a 4 mm Allen key and the thermostatic screw (1) with thermostatic head or protection cap and the lockshield by means of a 5 mm Allen key.
- Make sure that the air vent valve is open.

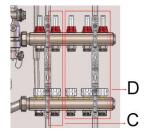




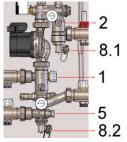




- Connect the water supply to the top valve (8.1).
- Open both fill/drain valves (8.1) and (8.2) and start filling.
- The way is only full when a constant water flow with no air bubbles comes out of the drain valve (8.2).



- Once the first way (A) is full, close it both on the delivery and the return.
- Repeat the procedure with the second way (C).
- The procedure must be carried out singularly for all ways, taking care to close the circuits which are not being filled (D).



Once the filling is complete:

- Close the fill/drain valves (8.1) and (8.2)
- Open the ball valve (2)
- Open the thermostatic valve (1) and the lockshield valve (5)

Item Specifications

CCBP 4026

Preassembled group for fixed point thermal adjustment with brass mixing group. Connection to primary circuit through 1" full-flow ball valves. Differential bypass valve with 0.2bar÷0.7bar adjustment for the secondary circuit. W24x19 connections, 50 mm interaxis. Working fluids: water and glycol solutions; max. glycol percentage 30%. Max working pressure 6 bar. Temperature range 0÷60°C. Composed by:

- Fixed point mixing group to connect the circulation pump to the manifold, complete with full-flow ball valves for the interception and replacement of the pump and balancing valve between primary and secondary circuit.
- Brass delivery manifold with flow rate adjustment valves and flow-meter with 0÷5l/min scale. Precision ±10%. Possibility to clean and replace the glass while the system is operating.
- Brass return manifold with shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- 25-60 permanent magnet circulation pump, energy class A.
- Immersion safety thermostat, range of adjustment 0°C±90°C. Degree of protection IP 20.
- Thermometer to verify the delivery temperature towards the radiant panel.
- Thermometer to verify the return temperature from the radiant panel.
- Automatic air vent valve and water fill/drain taps.
- · Couple of fastening brackets with shaped bearings.
- · Galvanised steel cabinet with varnished RAL 9016 white frame and case and cover. 90 mm depth.

CCBP 4036

Preassembled group for fixed point thermal adjustment with brass mixing group. Connection to primary circuit through 1" full-flow ball valves. Differential bypass valve with 0.2bar÷0.7bar adjustment for the secondary circuit. G3/4 connections, 50 mm interaxis. Working fluids: water and glycol solutions; max. glycol percentage 30%. Max working pressure 6 bar. Temperature range 0÷60°C. Composed by:

- Fixed point mixing group to connect the circulation pump to the manifold, complete with full-flow ball valves for the interception and replacement of the pump and balancing valve between primary and secondary circuit.
- Brass delivery manifold with flow rate adjustment valves and flow-meter with 0÷5l/min scale. Precision ±10%. Possibility to clean and replace the glass while the system is operating.
- Brass return manifold with shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- 25-60 permanent magnet circulation pump, energy class A.
- Immersion safety thermostat, range of adjustment 0°C±90°C. Degree of protection IP 20.
- Thermometer to verify the delivery temperature towards the radiant panel.
- Thermometer to verify the return temperature from the radiant panel.
- Automatic air vent valve and water fill/drain taps.
- · Couple of fastening brackets with shaped bearings.
- Galvanised steel cabinet with varnished RAL 9016 white frame and case and cover. 90 mm depth.

CCBAP 4025

Preassembled group for fixed point thermal adjustment with 2 connections for high temperature primary circuit and brass mixing group. Connection to primary circuit through 1" full-flow ball valves. Differential bypass valve with 0.2bar÷0.7bar adjustment for primary and secondary circuit. W24x19 connections, 50 mm interaxis. Working fluids: water and glycol solutions; max. glycol percentage 30%. Max working pressure 6 bar. Temperature range 0÷60°C. Composed by:

- Fixed point mixing group to connect the circulation pump to the manifold, complete with full-flow ball valves for the interception and replacement of the pump and balancing valve between primary and secondary circuit.
- Brass delivery manifold with 3 primary circuit connections.
- Brass return manifold with 3 primary circuit connections and shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- Brass delivery manifold with flow rate adjustment valves and flow-meter with 0÷5l/min scale. Precision ±10%. Possibility to clean and replace the glass while the system is operating.
- Brass return manifold with shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- 25-60 permanent magnet circulation pump, energy class A.
- Immersion safety thermostat, range of adjustment 0°C±90°C. Degree of protection IP 20.
- Thermometer to verify the delivery temperature towards the radiant panel.
- Thermometer to verify the return temperature from the radiant panel.
- Automatic air vent valve and water fill/drain taps.
- Couple of fastening brackets with shaped bearings.
- Galvanised steel cabinet with varnished RAL 9016 white frame and case and cover. 90 mm depth.

CCBAP 4027

Preassembled group for fixed point thermal adjustment with 3 connections for high temperature primary circuit and brass mixing group. Connection to primary circuit through 1" full-flow ball valves. Differential bypass valve with 0.2bar÷0.7bar adjustment for primary and secondary circuit. W24x19 connections, 50 mm interaxis. Working fluids: water and glycol solutions; max. glycol percentage 30%. Max working pressure 6 bar. Temperature range 0÷60°C. Composed by:

- Fixed point mixing group to connect the circulation pump to the manifold, complete with full-flow ball valves for the interception and replacement of the pump and balancing valve between primary and secondary circuit.
- Brass delivery manifold with 3 primary circuit connections.
- Brass return manifold with 3 primary circuit connections and shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.

- Brass delivery manifold with flow rate adjustment valves and flow-meter with 0÷5l/min scale. Precision ±10%. Possibility to clean and replace the glass while the system is operating.
- Brass return manifold with shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- 25-60 permanent magnet circulation pump, energy class A.
- Immersion safety thermostat, range of adjustment 0°C±90°C. Degree of protection IP 20.
- Thermometer to verify the delivery temperature towards the radiant panel.
- Thermometer to verify the return temperature from the radiant panel.
- Automatic air vent valve and water fill/drain taps.
- · Couple of fastening brackets with shaped bearings.
- Galvanised steel cabinet with varnished RAL 9016 white frame and case and cover. 90 mm depth.

Preassembled group for fixed point thermal adjustment with 4 connections for high temperature primary circuit and brass mixing group. Connection to primary circuit through 1" full-flow ball valves. Differential bypass valve with 0.2bar÷0.7bar adjustment for primary and secondary circuit. W24x19 connections, 50 mm interaxis. Working fluids: water and glycol solutions; max. glycol percentage 30%. Max working pressure 6 bar. Temperature range 0÷60°C. Composed by:

- Fixed point mixing group to connect the circulation pump to the manifold, complete with full-flow ball valves for the interception and replacement of the pump and balancing valve between primary and secondary circuit.
- Brass delivery manifold with 4 primary circuit connections.
- Brass return manifold with 4 primary circuit connections and shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- Brass delivery manifold with flow rate adjustment valves and flow-meter with 0÷5l/min scale. Precision ±10%. Possibility to clean and replace the glass while the system is operating.
- Brass return manifold with shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- 25-60 permanent magnet circulation pump, energy class A.
- Immersion safety thermostat, range of adjustment 0°C±90°C. Degree of protection IP 20.
- Thermometer to verify the delivery temperature towards the radiant panel.
- Thermometer to verify the return temperature from the radiant panel.
- Automatic air vent valve and water fill/drain taps.
- Couple of fastening brackets with shaped bearings.
- Galvanised steel cabinet with varnished RAL 9016 white frame and case and cover. 90 mm depth.

CCBAP 4035

Preassembled group for fixed point thermal adjustment with 2 connections for high temperature primary circuit and brass mixing group. Connection to primary circuit through 1" full-flow ball valves. Differential bypass valve with 0.2bar÷0.7bar adjustment for primary and secondary circuit. Male G3/4 EK connections, 50 mm interaxis. Working fluids: water and glycol solutions; max. glycol percentage 30%. Max working pressure 6 bar. Temperature range 0÷60°C. Composed by:

- Fixed point mixing group to connect the circulation pump to the manifold, complete with full-flow ball valves for the interception and replacement of the pump and balancing valve between primary and secondary circuit.
- Brass delivery manifold with 3 primary circuit connections.
- Brass return manifold with 3 primary circuit connections and shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- Brass delivery manifold with flow rate adjustment valves and flow-meter with 0÷5l/min scale. Precision ±10%. Possibility to clean and replace the glass while the system is operating.
- Brass return manifold with shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- 25-60 permanent magnet circulation pump, energy class A.
- Immersion safety thermostat, range of adjustment 0°C±90°C. Degree of protection IP 20.
- Thermometer to verify the delivery temperature towards the radiant panel.
- Thermometer to verify the return temperature from the radiant panel.
- Automatic air vent valve and water fill/drain taps.
- Couple of fastening brackets with shaped bearings.
- Galvanised steel cabinet with varnished RAL 9016 white frame and case and cover. 90 mm depth.

CCBAP 4037

Preassembled group for fixed point thermal adjustment with 3 connections for high temperature primary circuit and brass mixing group. Connection to primary circuit through 1" full-flow ball valves. Differential bypass valve with 0.2bar÷0.7bar adjustment for primary and secondary circuit. Male G3/4 EK connections, 50 mm interaxis. Working fluids: water and glycol solutions; max. glycol percentage 30%. Max working pressure 6 bar. Temperature range 0÷60°C. Composed by:

- Fixed point mixing group to connect the circulation pump to the manifold, complete with full-flow ball valves for the interception and replacement of the pump and balancing valve between primary and secondary circuit.
- Brass delivery manifold with 3 primary circuit connections.
- Brass return manifold with 3 primary circuit connections and shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- Brass delivery manifold with flow rate adjustment valves and flow-meter with 0÷5l/min scale. Precision ±10%. Possibility to clean and replace the glass while the system is operating.
- Brass return manifold with shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- 25-60 permanent magnet circulation pump, energy class A.
- Immersion safety thermostat, range of adjustment 0°C±90°C. Degree of protection IP 20.
- Thermometer to verify the delivery temperature towards the radiant panel.
- Thermometer to verify the return temperature from the radiant panel.

- Automatic air vent valve and water fill/drain taps.
- Couple of fastening brackets with shaped bearings.
- Galvanised steel cabinet with varnished RAL 9016 white frame and case and cover. 90 mm depth.

Preassembled group for fixed point thermal adjustment with 4 connections for high temperature primary circuit and brass mixing group. Connection to primary circuit through 1" full-flow ball valves. Differential bypass valve with 0.2bar÷0.7bar adjustment for primary and secondary circuit. Male G3/4 EK connections, 50 mm interaxis. Working fluids: water and glycol solutions; max. glycol percentage 30%. Max working pressure 6 bar. Temperature range 0÷60°C. Composed by:

- Fixed point mixing group to connect the circulation pump to the manifold, complete with full-flow ball valves for the interception and replacement of the pump and balancing valve between primary and secondary circuit.
- Brass delivery manifold with 4 primary circuit connections.
- Brass return manifold with 4 primary circuit connections and shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- Brass delivery manifold with flow rate adjustment valves and flow-meter with 0÷5l/min scale. Precision ±10%. Possibility to clean and replace the glass while the system is operating.
- Brass return manifold with shut-off valves for electrothermal control. With protection cap and possibility to close the circuit.
- 25-60 permanent magnet circulation pump, energy class A.
- Immersion safety thermostat, range of adjustment 0°C±90°C. Degree of protection IP 20.
- Thermometer to verify the delivery temperature towards the radiant panel.
- Thermometer to verify the return temperature from the radiant panel.
- Automatic air vent valve and water fill/drain taps.
- · Couple of fastening brackets with shaped bearings.
- Galvanised steel cabinet with varnished RAL 9016 white frame and case and cover. 90 mm depth.

