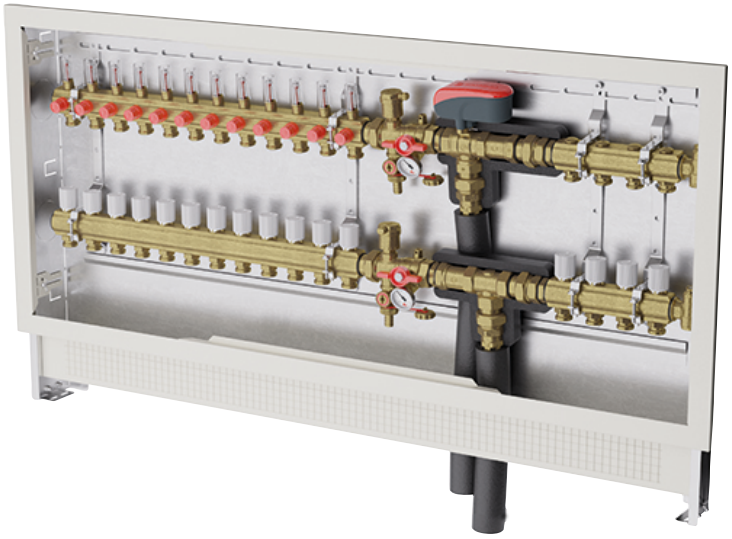
R279FC

Diverting valve kit for radiant panel systems and fan coil systems

Energy Management

Datasheet
1118EN 02/2024

R279FC



R279FC
WITH MANIFOLDS AND COMPLETION ACCESSORIES ASSEMBLED

Diverting valve kit for installation in radiant panel and fan coil systems.
It diverts the primary flow from the boiler room to the radiant panel or fan coil system based on the season and type of operation (heating or cooling).
The kit includes an R279D diverting valve on the delivery circuit, a Tee fitting on the return circuit, two manifold end pieces with manual air vent valve and insulation shell.
The kit can be completed with an actuator for the diverting valve, manifolds preassembled on brackets for the radiant panel system and the fan coil system, multifunction valves including drain cock, shut-off valve and automatic air vent valve.

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WATER E-MOTION

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Versions and product codes

PRODUCT CODE	CONNECTIONS PRIMARY x SECONDARY CIRCUITS
R279FCY005	G 1"F x G 1"M

Completion codes

- **K270:** actuator for diverting valve (24 V o 230 V)
- **R553FK:** brass preassembled manifold kit, with multifunction valves and flow meters
- **R553DK:** brass preassembled manifold kit, with multifunction valves and lockshields
- **R553FKDB:** brass preassembled manifold kit, with flow-rate dynamic balancing, multifunction valves and flow meters
- **R553F:** preassembled manifold kit with flow meters
- **R553D:** preassembled manifold kit with lockshields
- **R500-1:** metal cabinet for flush-mount installation with 110÷120 mm adjustable depth
- **R500-2:** metal cabinet for flush-mount installation with 85÷130 mm adjustable depth
- **R545Y004:** brass Y fitting, with G 3/4"F flat seat nut and two 3/4"E outlets with center distance 40 mm; equipped with R483Y001 (3/4"E x flat seat) adaptor for nut and EPDM self-sealing; useful for connecting two outlets of the fan coil manifold, to supply water for fan coils with flow rates greater than 300 l/h

Spare parts

- **R279FCWY005:** expanded polyethylene foam insulation

Technical data

Performance

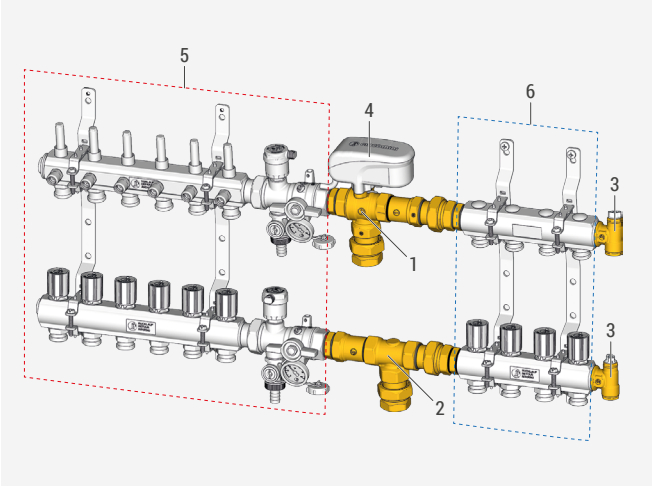
- Fluid: water, glycol-based solution (max 50 % of glycol)
- Temperature range: 5÷110 °C
- Max working pressure: 10 bar

Materials

- Diverting valve and other brass components: CW617N - UNI EN 12165 brass
- Gaskets: EPDM
- Polypropylene foam insulation (EPP)

⚠ **WARNING**. The technical data refers to the R279FC kit. When installing distribution manifolds and other components, refer to their corresponding technical data as well.

Components



R279FC KIT	1	Diverting valve on delivery circuit
	2	Tee fitting on return circuit
	3	Manifold end piece with manual air vent valve
COMPLETION CODES	4	Actuator for diverting valve
	5	Preassembled manifold for heating system
	6	Preassembled manifold for fan coil system

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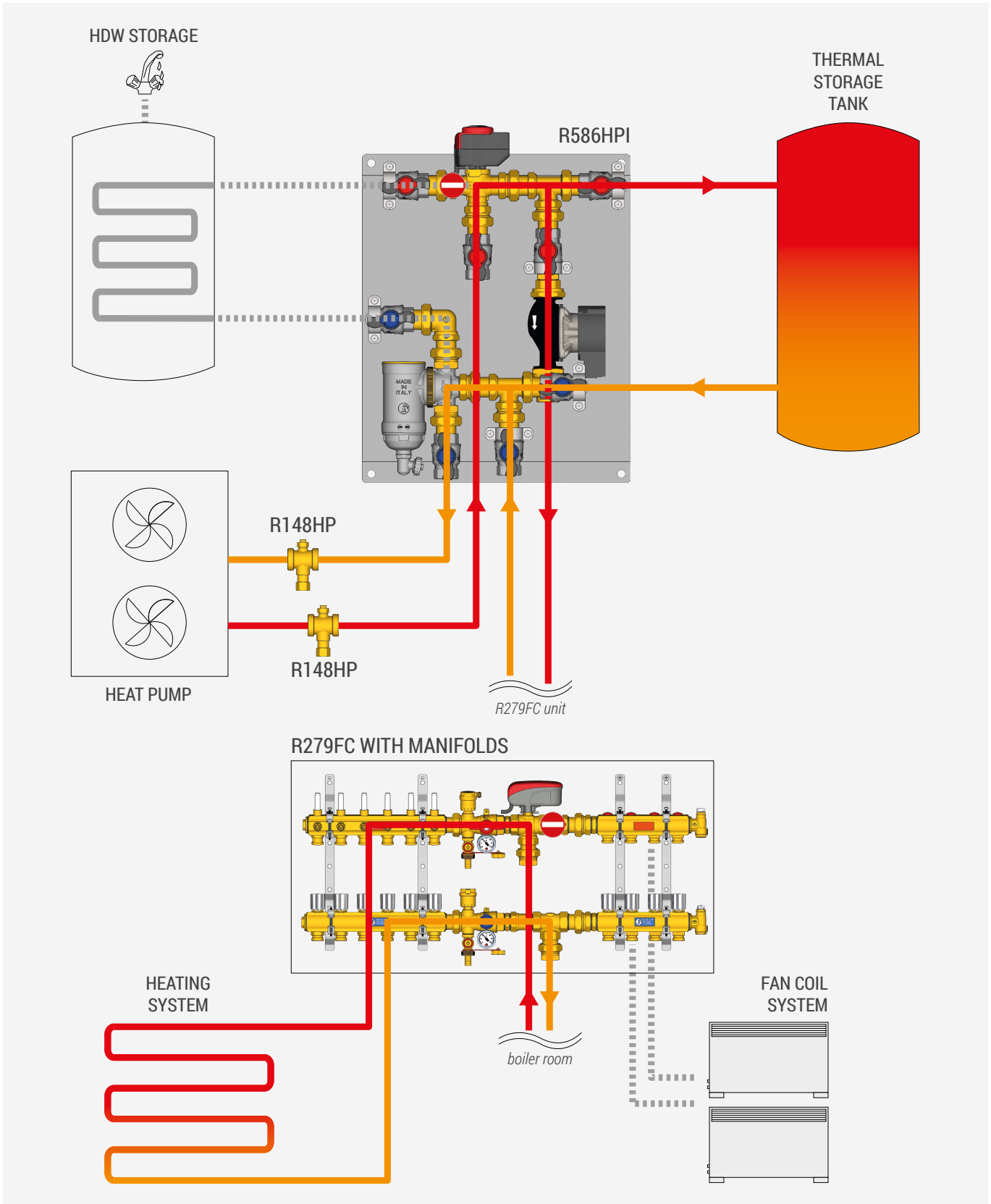
Winter operation

In winter, the heat transfer fluid delivered by the heat pump enters the R586HPI hydronic unit and is sent to the R279FC preassembled unit, which will then divert the flow towards the heating system.

NOTE. For operation of the R586HPI hydronic unit refer to the dedicated datasheet.



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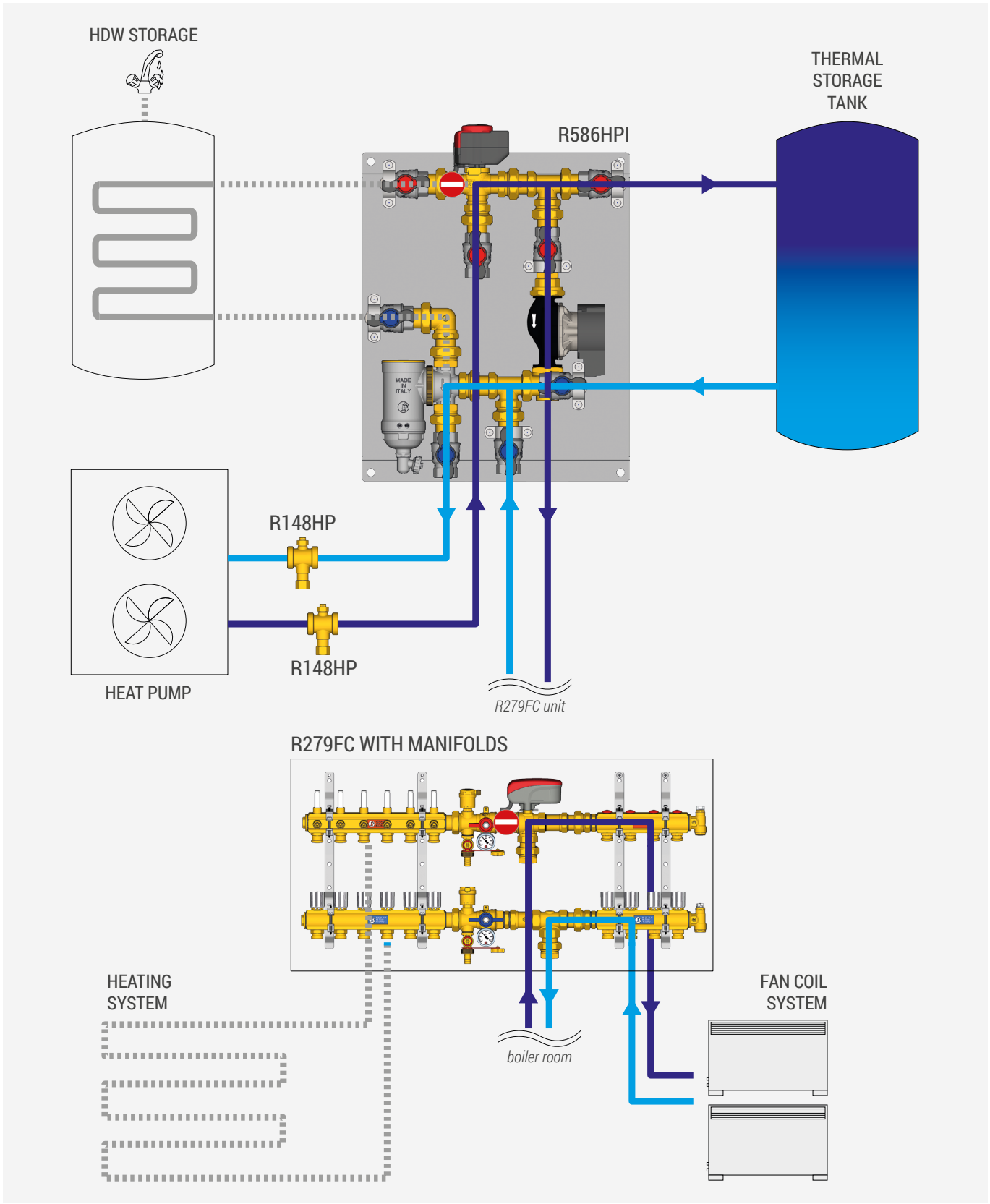
Summer operation

In summer, the cold transfer fluid delivered by the heat pump enters the R586HPI hydronic unit and is sent to the R279FC preassembled unit, which will then divert the flow towards the cooling fan coil system.

NOTE. For operation of the R586HPI hydronic unit refer to the dedicated datasheet.



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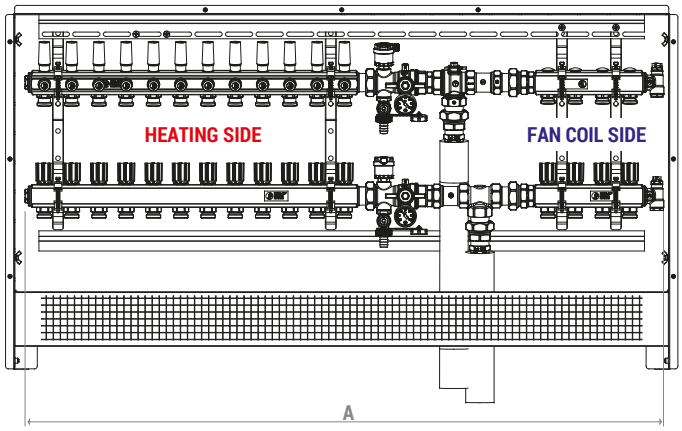
Dimensions and choosing the right metal cabinet

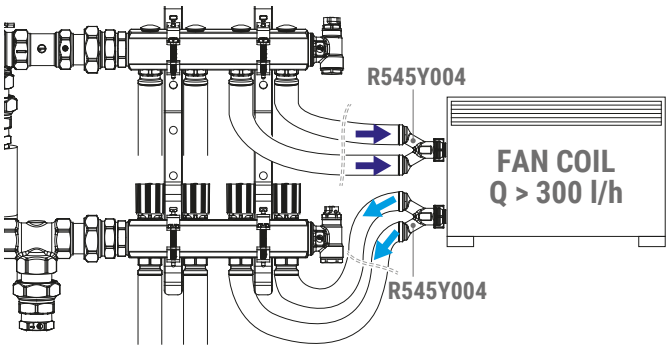


NOTE. The dimensions listed in the table above are based on installation of R553FK, R553DK, R553FKDB, R553F, R553D manifolds with a 50-mm center distance between the outlets.

NOTE. The diagram shows the heating circuit manifolds on the left side of the cabinet and the fan coil manifolds on the right.
These positions are reversible.

N. OF OUTLETS HEATING CIRCUIT	N. OF OUTLETS FAN COIL CIRCUIT	"A" DIMENSIONS KIT + MANIFOLDS [mm]	CABINET WIDTH R500-1 / R500-2 [MM]
12	4	1177	1200
12	3	1127	1200
12	2	1077	1200
11	4	1127	1200
11	3	1077	1200
11	2	1027	1200
10	4	1077	1200
10	3	1027	1200
10	2	977	1200
9	4	1027	1200
9	3	977	1200
9	2	927	1000
8	4	977	1200
8	3	927	1000
8	2	877	1000
7	4	927	1000
7	3	877	1000
7	2	827	1000
6	4	877	1000
6	3	827	1000
6	2	777	1000
5	4	827	1000
5	3	777	1000
5	2	727	800
4	4	777	1000
4	3	727	800
4	2	677	800
3	4	727	800
3	3	677	800
3	2	627	800
2	4	677	800
2	3	627	800
2	2	577	800

R545 fitting use



Brass Y fitting, with G 3/4"F flat seat nut and two 3/4"E outlets with center distance 40 mm; equipped with R483Y001 (3/4"E x flat seat) adaptor for nut and EPDM self-sealing.
The fitting is useful for connecting two outlets of the fan coil manifold, to supply water for fan coils with flow rates greater than 300 l/h.

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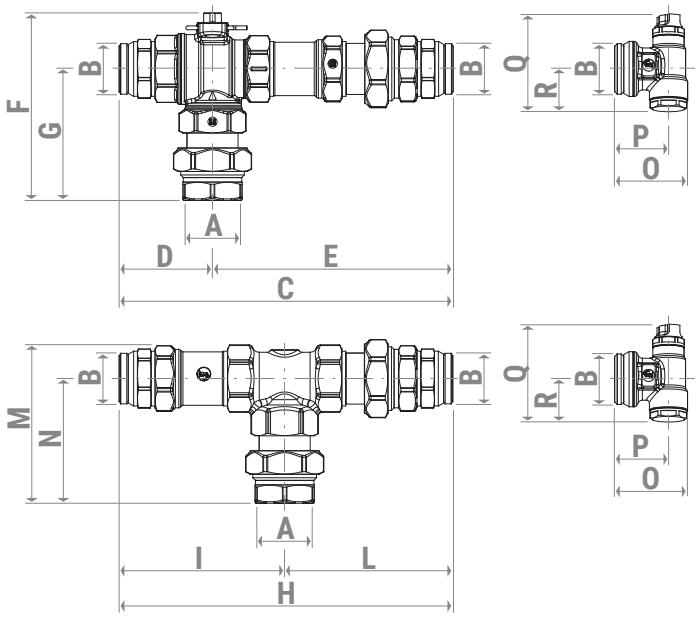
Dimensions



PRODUCT CODE	CONNECTIONS A x B	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]	O [mm]	P [mm]	Q [mm]	R [mm]
R279FCY005	G 1"F x G 1"M	219	61	158	123	86	219	109	110	104	82	23	35	62	27

Product specifications

R279FC

Diverting valve kit for installation in radiant panel and fan coil systems. It diverts the primary flow from the boiler room to the radiant panel or fan coil system based on the season and type of operation (heating or cooling). The kit includes an diverting valve on the delivery circuit, a Tee fitting on the return circuit, two manifold end pieces with manual air vent valve and insulation shell. Fluid: water, glycol-based solution (max 50 % of glycol). Temperature range: 5÷110 °C. Max working pressure: 10 bar. Diverting valve and other brass components: CW617N - UNI EN 12165 brass. Gaskets: EPDM. Polypropylene foam insulation (EPP). The kit can be completed with an actuator for the diverting valve, manifolds preassembled on brackets for the radiant panel system and the fan coil system, multifunction valves including drain cock, shut-off valve and automatic air vent valve.

Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

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Product Disposal. Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.

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