

## MOTORIZED PUMP CIRCULATION UNITS

SYSTEM SIDE FEMALE 1"  
MANIFOLD SIDE MALE 1"1/2  
CENTRE-LINE 125 MM



## DESCRIPTION

The preassembled pump circulation units, installed in conjunction with the distribution manifolds, constitute a modular and versatile system for the configuration of heating systems. Each element has been conceived and made to carry out a specific function, however the modularity of the whole system, by combining the pump circulation units and appropriate manifold, makes it possible to fulfill a wide range of modern installation requirements. The motorized pump circulation unit draws the heat transfer fluid taken from the connected manifold and, by mixing supply and return, it channels the water into the secondary circuit at a constantly mixed temperature through the use of a three-way mixing valve combined with an electrical actuator operated by a modulating 3-point control. The input controlling the actuator is generally given by an electronic control unit (not supplied). The circulator provides the required hydraulic differential pressure. This device finds application in all those systems equipped with climatic regulation. The supply temperature of the heating elements is modulated according to the outdoor temperature and, if necessary, other parameters; the control unit detects the climatic conditions and operates the actuation of the three-way valve in order to mix the supply temperature with the correct value. The shut-off valves positioned on the two branches are intended to isolate the circuit; through the two thermometers mounted on the shut-off valves it is possible to check the supply temperature of the fluid and the return temperature to the manifold. The non-return valve placed on the return line prevents episodes of eddy currents within the branch downstream, whereas the insulation shell reduces the heat loss and protects the components. The pump circulation unit is available with or without circulator Para. All the components of the system are supplied preassembled and tested, therefore no other action is required besides connecting the unit to the system, thus representing a time and cost-saving opportunity for the installer.

## TECHNICAL FEATURES

<b>Pressure:</b>	
maximum working pressure	10 bar
<b>Temperature:</b>	
maximum working temperature	85°C
maximum environmental temperature	80°C
<b>Threads:</b>	
plant side	G 1" F - ISO 228/1
manifold side	G 1"1/2 M - ISO 228/1
center line supply-return	125 mm
center distance circulator	130 mm
<b>Thermometer:</b>	
body	diameter 50 mm
scale	0÷120°C
bulb	9x27mm
<b>Non-return valve:</b>	DN25
<b>Circulator:</b>	
power supply	230 V - 50/60 Hz
maximum supply pressure	0,5 bar
maximum head with Q=0 m <sup>3</sup> /h	6 m
maximum absorbed power	25 Watt
<b>Motorized valve:</b>	
power supply	230 VAC 50/60 Hz, 24 VDC/AC 50/60 Hz
angle of rotation	90° electrically limited
torque	5/10 Nm
kvs	6,3
<b>Compatible fluids:</b>	
water	
glycol solutions	glycol max. 50 %

## DESIGN

Piping	varnished steel
Shut-off valves	brass
Seals	brass
<b>Non-return valve</b>	
body	POM
spring	stainless steel
sealing elements	NBR
<b>Motorized valve</b>	
valve body	brass
protection class	IP41
<b>Para Circulator</b>	
pump body	cast iron
impeller	polypropylene
shaft	stainless steel
sealing elements	EPDM
protection class	IPx4D
<b>Insulation</b>	
materials	extended polypropylene
dimensions	385x249x240 mm

## PRODUCT CODES

2252.010	without circulator	220V AC	2252.110	with circulator Para 25/6 - 43/SC	220V AC
2252.030	without circulator	24V AC/DC	2252.130	with circulator Para 25/6 - 43/SC	24V AC/DC



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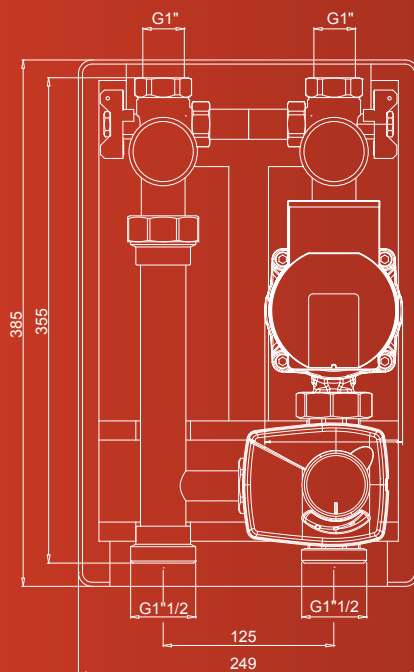
# 2252

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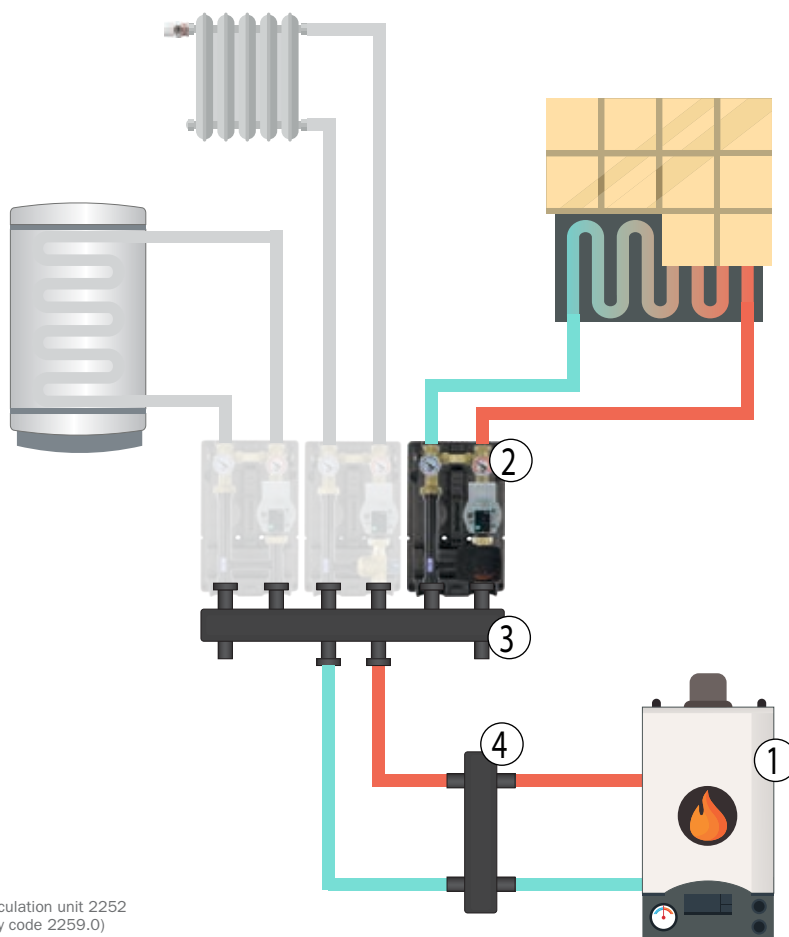
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INSULATION DIMENSIONS 385x249x240mm



### LEGEND

- 1 – Boiler
- 2 – Motorized pump circulation unit 2252
- 3 – Manifold (accessory code 2259.0)
- 4 – Hydraulic separator (accessory code 2259.1)

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