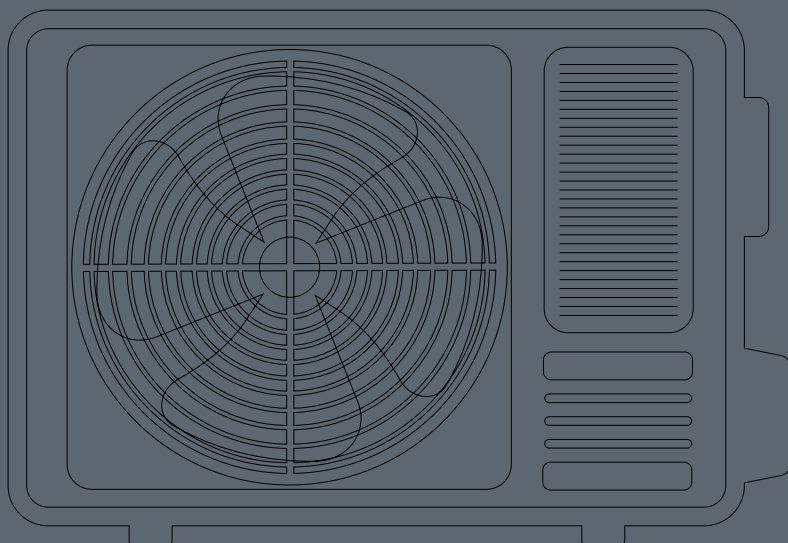


Components for heat pump systems



Made in Italy



Innovative solutions for heat pump systems

Domestic heating and air conditioning is at the center of the issue of polluting emissions, the reduction of which is a fundamental point for achieving the new ambitious targets set by **the agenda for 2030**: reduction of at least 55% compared to 1990 levels, as an intermediate step towards final goal of achieving climate neutrality by 2050.



Today the mission is to promote the **energy requalification of buildings** and the diffusion of **renewable energy sources**, also through a widespread replacement of traditional fossil fuel boilers with **modern heat pump systems**.

Always oriented towards a future that can **combine efficiency and sustainability**, RBM actively participates in this ambitious green mission, through continuous research and production of an entire range of devices for high-performance and environmentally sustainable heat pump systems and economical.

RBM creates all the **specific components to guarantee the optimal functioning of the system, supporting the designer's work and facilitating the installation phases**.

MP1

Series 3699

Self-cleaning magnetic sludge remover filter for heating pump

- High performance technopolymer body
- AISI 304 stainless steel reinforced filtering cartridge
- Elastomer hydraulic seals
- Union threaded connections MM UNI-EN-ISO 228
- Max. operating pressure 6 bar
- Operating temperature 0 to +90 °C
- Neodymium magnet B = 11000 gauss
- Filtering grade 800 µm



Removes any impurity	Fights corrosion
Extends the lifespan of heat pumps	Maintains optimum system efficiency
Self-cleaning	Complete with integrated shut-off device and discharge ball cock
Excellent hydraulic properties	

Code	Measure	Kv (m ³ /h)	Pack	Outer	Cat.
3699.06.00	1"	17,3	1	4	20.03
3699.07.00	1"1/4	17,3	1	4	20.03

MP2

Series 3833

Self-cleaning magnetic sludge remover filter for heating pump

- High performance technopolymer body
- AISI 304 stainless steel reinforced filtering cartridge
- Elastomer hydraulic seals
- Max operating pressure 6 bar
- Operating temperature 0 to +70 °C
- Neodymium magnet B = 11000 gauss
- Filtering grade 800 µm



Removes any impurity	Fights corrosion
Excellent hydraulic properties	Ensures system efficiency
Can be mounted on vertical, horizontal and diagonal piping	Easy dosing of the treatment fluids with 0.3 L doses
Extends the life span of heat pumps	Built-in total passage shut-off system

Code	Measure	Kv (m ³ /h)	Pack	Outer	Cat.
3833.06.00	1"	10,73	1	4	20.03
3833.07.00	1"1/4	-	1	4	20.03

MP2 Big

Series 3939

Self-cleaning magnetic sludge remover filter for heating pump



- Body in plastic polymer.
- AISI 304 stainless steel reinforced filtering cartridge.
- Elastomer hydraulic seals.
- Max operating pressure 6 bar
- Operating temperature 0-70 °C
- Neodymium magnet B = 11000 gauss
- Filtering grade 800 µm



Removes any impurity

Fights corrosion

Excellent hydraulic properties

Ensures system efficiency

Can be mounted on vertical, horizontal and diagonal piping

Easy dosing of the treatment fluids with 0.3 L doses

Extends the life span of heat pumps

Built-in total passage shut-off system

Codice	Misura	Kv (m ³ /h)	Conf.	Imballo	Cat.
3939.06.00	1"	10,73	1	2	20.03

Alinox

Series 46

Adjustable automatic filling unit to refill closed circuits



- Nickel brass body and stainless steel seal seats
- Elastomer seals
- Threaded connections FF UNI-EN-ISO 228
- Nominal pressure 25 bar
- Max upstream pressure 25 bar
- Adjustable downstream pressure 0.8 ÷ 5.5 bar
- Max operating temperature 80 °C
- Pressure gauge scale 0 ÷ 10 bar
- Filtering grade 800 µm



Diaphragm operated with anti-water hammer function

Complete with removable cartridge micro filter

Built-in check valve

Dial pressure gauge included

Code	Measure	Pack	Outer	Cat.
46.04.00	1/2"	1	6	07.01

Smart Filler

Series 3856

Adjustable automatic filling unit to refill closed circuits



- Brass body and stainless steel sealing ring
- Elastomer seals
- Threaded connections MF UNI-EN-ISO 228
- Nominal pressure 16 bar
- Max upstream pressure 16 bar
- Adjustable downstream pressure 0.5 ÷ 4 bar
- Max operating temperature 80 °C
- Pressure gauge scale 0 ÷ 4 bar
- Filtering grade 500 µm



Diaphragm operated

Built-in check valve

Graduated calibration knob and dial pressure gauge

Complete with self-lubricating technopolymer cartridge

Code	Measure	Pack	Outer	Cat.
3856.04.00	1/2"	1	6	07.01
3856.05.00	3/4"	1	6	07.01

Filler

Series 3153

Adjustable automatic filling unit to refill closed circuits



- Nickel brass body
- Elastomer seals
- Threaded connections MFUN HEN-ISO 228
- Nominal pressure 16 bar
- Max upstream pressure 16 bar
- Adjustable downstream pressure 0.5 ÷ 4 bar
- Max operating temperature 80 °C
- Pressure gauge scale 0 ÷ 4 bar
- Filtering grade 500 µm



Piston operated

Built-in check valve

Complete with cartridge micro filter

Dial pressure gauge included

Code	Measure	Pack	Outer	Cat.
3153.04.00	1/2"	1	6	07.01

Zerofrost

Series 4093

Antifreeze valve
for heat pumps



- Brass body and brass internal components
- EPDM PEROX seals
- Stainless steel AISI 302 springs
- Max operating pressure 10 bar
- Temperature range 0 - 80 °C
- Fluid temperature (open) 3 °C
- Fluid temperature (closed) 4 °C
- Sensitivity ± 1 °C
- Max discharge flow rate at 3 bar: 1.5 l/h



It protects heat pumps from freezing	Maximum sensitivity (± 1 °C) and rapidity of intervention
It is automatically activated when the fluid temperature drops below 3 °C	It discharges only what is necessary (max. 1.5 l/h) avoiding draining the system
No power supply required	It avoids the use of glycol

Code	Measure	Kv (m ³ /h)	Pack	Outer	Cat.
4093.06.00	1"	55	1	20	07.04
4093.07.00	1"1/4	70	1	20	07.04

Airterm UP

Series 2649

Adjustable deaerator



- Brass body, float and lever in PP
- Stainless steel AISI 302 spring
- Stainless steel AISI 304 cartridge
- Elastomer seals
- Threaded connections F UNI-EN-ISO 228
- Max operating pressure 10 bar
- Max operating discharge pressure 10 bar
- Max operating temperature 115 °C
- Allowed fluid water and water + glycol 30%



Ensures the efficiency of the system	High performance (maximum discharge pressure 10 bar)
High discharge capacity	Installation on vertical, horizontal, diagonal pipings

Code	Measure	Pack	Outer	Cat.
2649.05.00	3/4"	1	6	20.02
2649.06.00	1"	1	6	20.02

Airterm

Series 2830.A

In-line deaerator



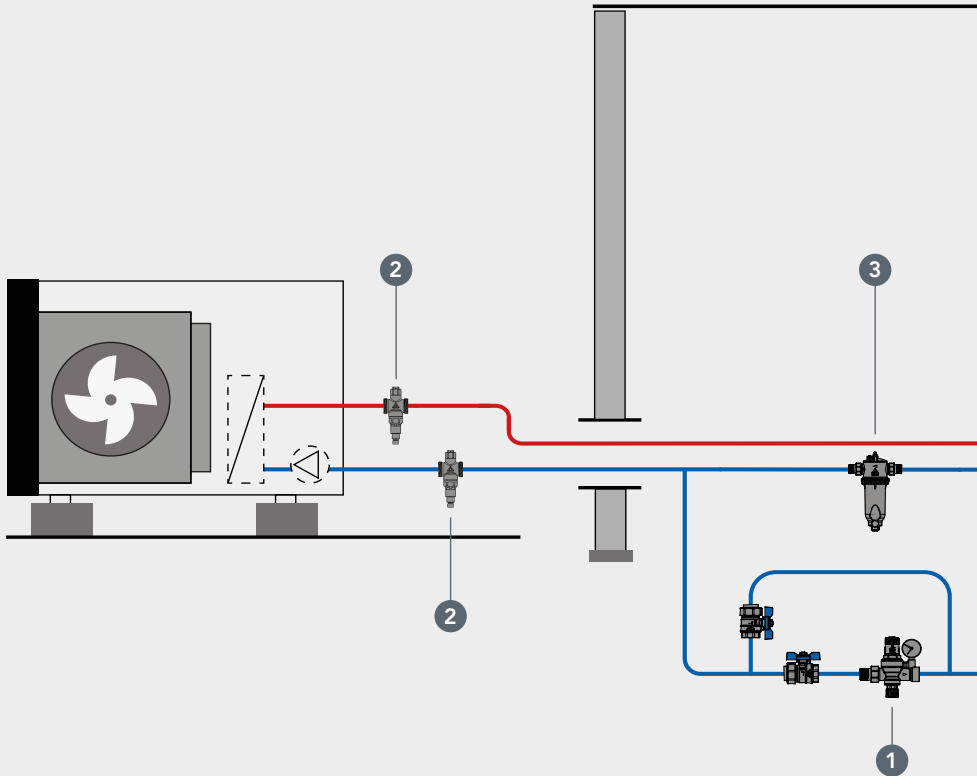
- Brass body, float and lever in PP
- Stainless steel AISI 302 spring
- Stainless steel 304 3Layers cartridge
- Elastomer seals
- Threaded connections F UNI-EN-ISO 228
- Max operating pressure 10 bar
- Max operating discharge pressure 10 bar
- Max operating temperature 110 °C
- Allowed fluid water and water + glycol 30%



Ensures the efficiency of the system	High performance (maximum discharge pressure 10 bar)
High discharge capacity	Bi-directional

Code	Measure	Pack	Outer	Cat.
2830.04.00	1/2"	1	6	20.02
2830.05.00	3/4"	1	6	20.02
2830.06.00	1"	1	6	20.02
2830.07.00	1"1/4	1	6	20.02
2830.08.00	1"1/2	1	6	20.02
2830.09.00	2"	1	6	20.02
On request	Ø 22*	-	-	-
On request	Ø 28*	-	-	-

Components for heat pump systems



1 Smart Filler
Series 3856

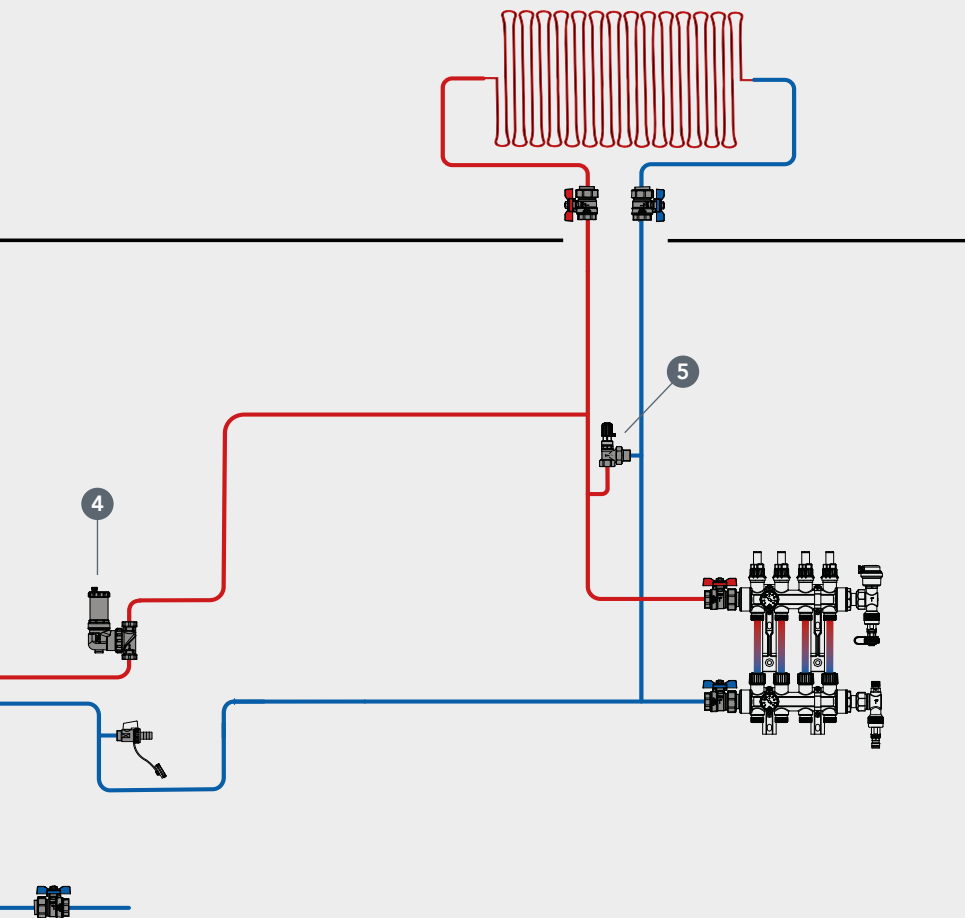
Adjustable automatic filling unit to refill closed circuits

2 Zerofrost
Series 4093

Antifreeze valve for heat pumps

3 MP1
Series 3699

Self-cleaning magnetic sludge remover filter for heating pump



- 4 Airterm UP**
Series 2649
Adjustable deaerator

- 5 Settable by-pass valve**
Serie 124
Settable by-pass valve
for total or partial overflow
of thermal circuits.

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