



Function

The NOVAZONE DMF 120 for heat pumps is the multizone module for the managing of the correct flow rate of the heat transfer fluid and adequate head pressure in all heating and cooling systems with heat pumps that require additional performance beyond that of the boiler circulator, without altering the supply temperature of the heating zones compared to the generator's supply temperature. The integrated hydraulic separator guarantees hydraulic decoupling of the generator from the heating zones, making them hydraulically independent.

Technical data

Nominal Diameter	DN15
Max Pressure	PN10
Max Operating Temperature	95°-110°C Peak
Min Operating Temperature	+5°C
Fluid	Water - Water + glycol max 30%
System Side Valves	DN20
Non-return Valve Op. Press.	ΔP :2kPa (200 mm approx.)
External Dimensions	450x500x160 mm
Protection Rating	IPX0D
Pipes	Copper \varnothing 18 mm
Generator Connection	3/4" M
Center Distance	320 mm
Heating Connections	3/4" F
Center Distance	70 mm
Circulator	Grundfos UPM3 Hybrid 15-70 ErP ready
Max Flow Rate	2100 l/h
Max Power Output	35 kW
Residual Head at 1000 l/h	6.4 m.w.c.
Single Unit Power Consumption	max 52 W
Thermometers	0-160°C

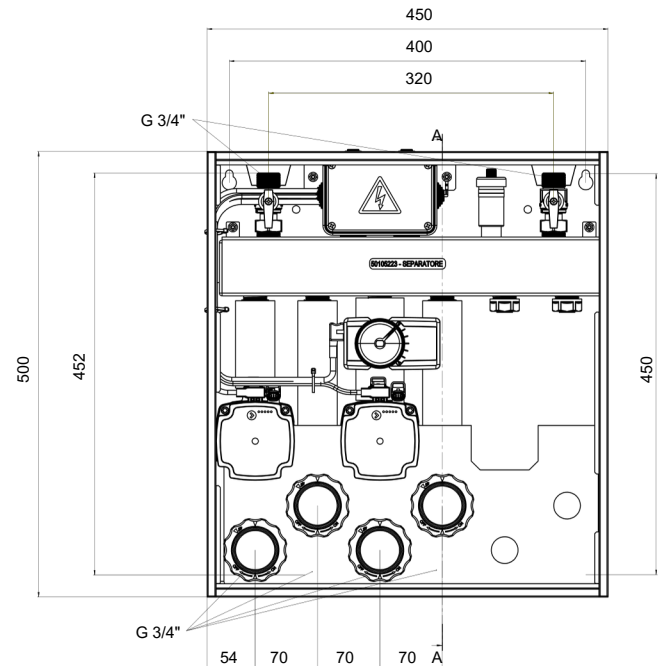
Mixed zone

Mixing Valve	Mod. NVM - 1" M
Mixing Valve Actuator	Mod. NVMC3, 3pt, 230V
Maximum Flow Rate	2000 l/h
Maximum Power Output	14kW
Residual Head	3,8 m.c.a
Electrical Power Consumption	max 52W

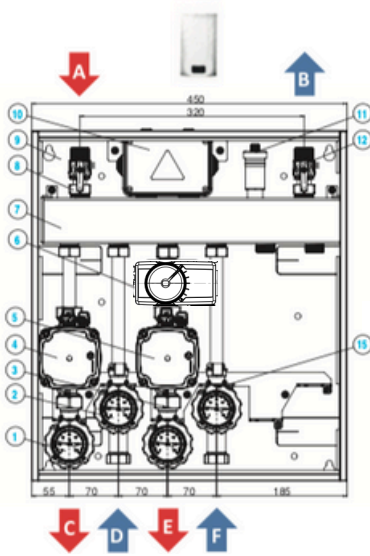
Materials

Pipes	Copper
Casing	FE painted
Manifold	FE painted
Circulators	Cast Iron
Components	Brass/CW617N

Dimensions



Composition



- 1) Zone 1 Flow Valve
- 2) Zone 1 Return Valve
- 3) Zone 2 Flow Valve
- 4) Zone 1 Circulator
- 5) Zone 2 Circulator
- 6) Motorized Mixing Valve Zone 2
- 7) Hydraulic Manifold
- 8) Generator Flow Valve
- 9) Metal Enclosure with Integrated Insulation
- 10) Support Electrical Box
- 11) Automatic Air Vent
- 12) Generator Return Valve
- 13) /
- 14) /
- 15) Zone 2 Return Valve

- A) Heat generator supply
- B) Heat generator return
- C) Heating supply direct zone 1
- D) Heating return direct zone 1
- E) Heating supply direct zone 2
- F) Heating return direct zone 2

Certifications

Product compliant with:
- EN 16297-2 / EN 16297-3:2012 ErPReady
- PED Directive – 2014/68/EU



Accessories



MOTOR
MOTOR NVM11-230V - 3pt.
(Cod. 83005131)



CIRCULATOR
UPM3 HYBRID CIRCULATOR 15/70 - 130
(Cod. CF105236)



BLUE VALVE
DN20 VALVE QUICK CONNECTION x 3/4" F HANDLE WITH BLUE THERMOMETER
(Code 10405012)



RED VALVE
DN20 1" F x 3/4" F VALVE HANDLE WITH RED THERMOMETER
(Code 10405011)



DIRECT HEATING/COOLING ZONE
SINGLE DIRECT HEATING/COOLING ZONE
(Cod. R9926150)



MOTORIZED HEATING/COOLING ZONE
SINGLE MOTORIZED HEATING/COOLING ZONE
(Cod. R9926250)