



Function

The NOVABOX mod.100 range covers the following hydraulic functions:

- Transfer of energy from a biomass generator
- Energy exchange between the generator and the heating circuit
- Hydraulic separation between the generator and the heating circuit
- Auxiliary system functions.

The module complies with the requirements of the ISPESL Circular dated 18/09/2006.

Primary hydraulic circuit

Max flow	2000 l/h
Max temperature	95°C continuous - 110°C peak
Max pressure	6 bar
Residual head at 1000 l/h	6.5 m.w.c.
Liquid	Water - Water + Glycol max 30%

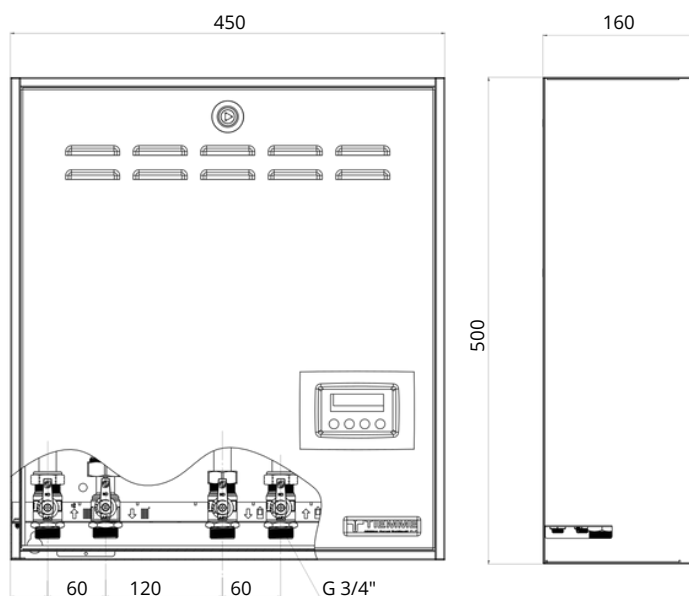
Materials

Pipes	Copper
Circulators	Cast iron
Components	Brass / CW617N

Heating hydraulic circuit

Max flow	1700 l/h
Max temperature	95°C continuous - 110°C peak
Max pressure	6 bar
Non-return valve op. pressure	$\Delta P: 2 \text{ kPa}$ (200 approx)
Residual head at 1000 l/h	5.4 m.w.c.
Liquid	Water - Water + Glycol max 30%

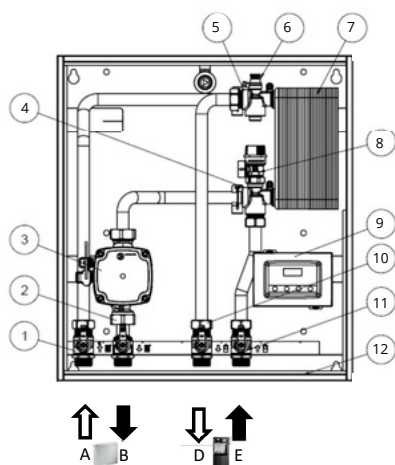
Dimensions



Electrical and mechanical characteristics

Supply voltage	230V / 50 Hz
Max electrical absorption	Max 60 W
IP protection rating	IPX0D
Control unit setting	CFG 50
Plate heat exchanger	40 plates - 35 kW
Connections	3/4" M
Center distance	60 mm
External dimensions	450 x 500 x 160 mm
Weight	13.5 kg

Composition



- 1) Heating return valve / check valve
- 2) Heating supply valve
- 3) Heating circulation pump
- 4) Heating safety valve
- 5) Heating air vent
- 6) Generator air vent
- 7) Plate heat exchanger
- 8) Generator supply sensor
- 9) Control unit
- 10) Generator supply valve
- 11) Generator return valve
- 12) Metal box

- A) Heating return
- B) Heating flow
- D) Return generator
- E) Flow generator

Accessories



CONTROL UNIT

Control unit TC100
(Cod. CF105175)



CIRCULATOR UPM3

CIRCULATOR UPM3 HYBRID
(Cod. R0105078)



AIR VENT VALVE 1/4"

Air vent valve
(Cod. CF105001)



PROBE WELL

Probe well 6mm
(Cod. CF405111)



NTC PROBE

Ntc probe 6mm - ntc 10k@25°
(Cod. R3705089)



PLATE HEAT EXCHANGER

Plate heat exchanger swep E5ASH - 20 plates (COD. R0105410)
Plate heat exchanger swep E5ASH - 40 plates (COD. R0105409)

Certifications

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

