



## 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%

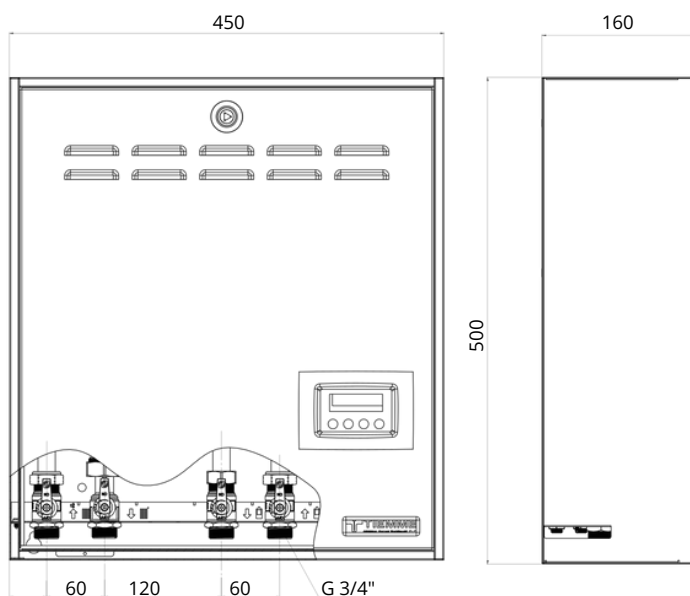
## Materials

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	$\Delta P: 2kPa$ (200 approx)
Residual head at 1000 l/h	5.2 m.w.c.
Liquid	Water - Water + Glycol max 30%

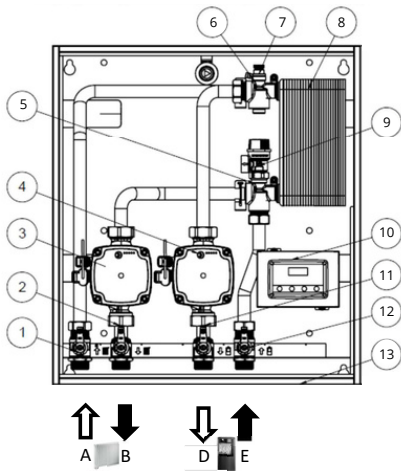
## Dimensions



## Electrical and mechanical characteristics

Supply voltage	230V / 50 Hz
Max electrical absorption	Max 110 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	15,0 kg

## Composition



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

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

## Certifications

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



## 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)