



## Function

The NOVABOX range, model 500, covers the following hydraulic functions:

- Transport of energy from a biomass generator
- Energy exchange between the generator and the heating circuit
- Hydraulic separation between the generator and the heating circuit
- Instantaneous production of domestic hot water
- Accessory functions of the system

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

## Primary hydraulic circuit

Max flow	1800 l/h
Max temperature	95°C continuous – 110°C peak
Max pressure	6 bar
Residual head at 1000 l/h	5.2 m.w.c.
Liquid	Water – Water + Glycol max 30%

## Heating hydraulic circuit

Max flow rate	1800 l/h
Max temperature	95°C continuous – 110°C peak
Max pressure	6 bar
Residual head at 1000 l/h	5.2 m.w.c.
Fluid	Water – Water + Glycol max 30%

## Domestic hot water hydraulic circuit

Max flow rate at $\Delta t$ 30°C	20 l/min
Max temperature	60°C
Max pressure	6 bar
Fluid	Domestic hot water

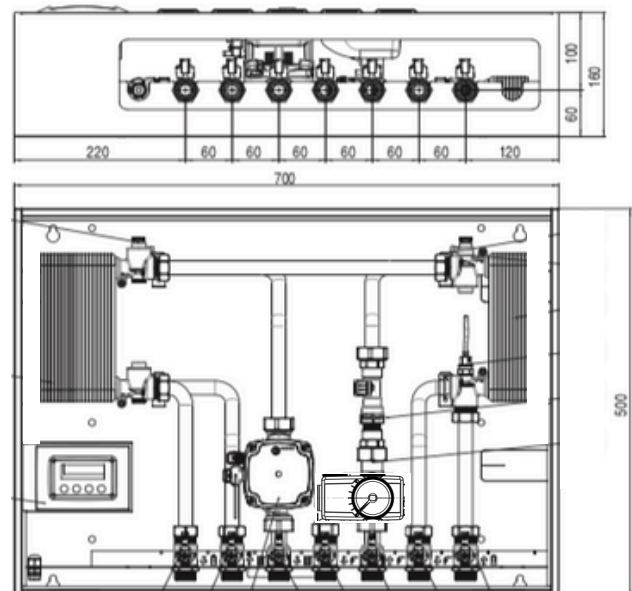
## Electrical and mechanical characteristics

Power supply voltage	230V / 50 Hz
Max electrical consumption	Max 160 W
IP protection rating	IPX0D
Control unit setting	CFG 30
Domestic plate heat exchanger	40 primary - 20 sanitary
Connections	3/4" M
Center-to-center distance	60 mm
External dimensions	450x500x160 mm
Weight	22 kg

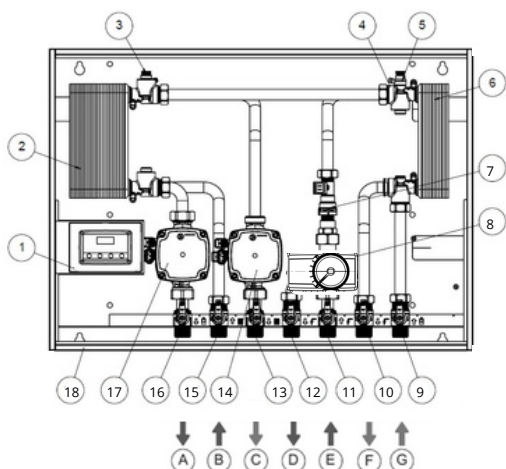
## Materials

Pipes	Copper
Circulators	Cast iron
Components	Brass / CW617N

## Dimensions



## Composition



- 1) Control group
- 2) Primary heat exchanger
- 3) System air vent
- 4) Sanitary air vent
- 5) Generator air vent
- 6) Sanitary heat exchanger
- 7) Sanitary flow switch
- 8) Diverter valve
- 9) Generator supply valve
- 10) Sanitary outlet valve
- 11) Sanitary inlet valve
- 12) Sanitary outlet valve
- 13) Heating supply valve
- 14) Heating circulator
- 15) Heating return valve
- 16) Generator return valve
- 17) Generator circulator
- 18) Metal box

- A) Return to the generator
- B) Return from the heating system
- C) Supply to the heating system
- D) Cold water outlet
- E) Cold water inlet
- F) Hot water outlet
- G) Supply from the generator

## Accessories



### CONTROL UNIT

Control unit TC100  
(Cod. CF105175)



### MOTOR

MOTOR NVM08 - 230V - 3 pt.  
(Code: R3005208)  
MOTOR NVM07 - 24V - 0-10V  
(Code: R3005207)



### 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

