

Heat exchanger - water/vapour

DESCRIPTION

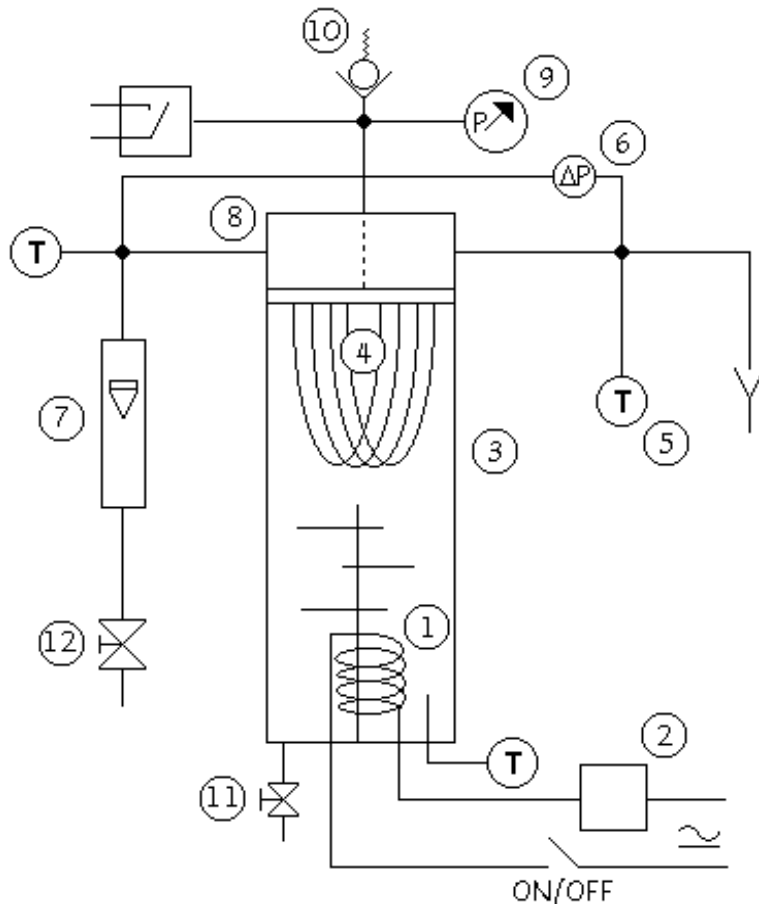
- Water is heated by an electric resistance element in a closed glass chamber and is converted into vapour. This vapour condenses when it contacts copper tubes containing cold circulating water. The unit is properly equipped with the instrumentation required to measure various parameters and deduce the heat exchanged under various cooling configurations (temperature – flow – pressure).
- The BET 020 equipment is delivered fully equipped and includes a technical manual as well as instructions.



PEDAGOGIC APPLICATIONS

- Observation of boiling and condensation
- Demonstration of the increase in the efficiency of the heat exchanger by increasing the number of constant flow exchange circuits
- Measurement of the effect of the following on the coefficient of heat transfer-rate of flow
 - number of exchange circuits
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- Study of the relationship between the saturation temperature and pressure for the low pressure water.

BET 020



1. Resistance heater
2. Power regulation (up to 3 kW)
3. Glass cylinder
4. Cooling tubes (four) with various ways of connections (by means of the valve)
5. Temperature probes (three)
6. Differential manometer
7. Flow meter 10 – 100 l/h
8. Valve
9. Vapour manometer ± 1 bar
10. Safety valve
11. Drain valve
12. Water inlet valve

UTILITIES

Electricity : 220 V single phase 50/60 Hz – 3 kW

Water : 100 L/h

INSTALLATION VOLUME

Length : 450 mm

Width : 400 mm

Height : 620 mm

Weight : 30 kg