

## REVERSIBLE HEAT PUMP AIR-WATER



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### Experimental capabilities

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- Study of the basic concept of an air-water heat pump
- Study of the concept of cycle reversibility
- Study of the thermodynamic cycle Plot of the cycle on enthalpy diagram
- Calculation of exchange coefficients
- Calculation of yields
- Calculation of the heat balance

## Operating principle

The installation consists of two benches, one bench of production and one dissipation bench.

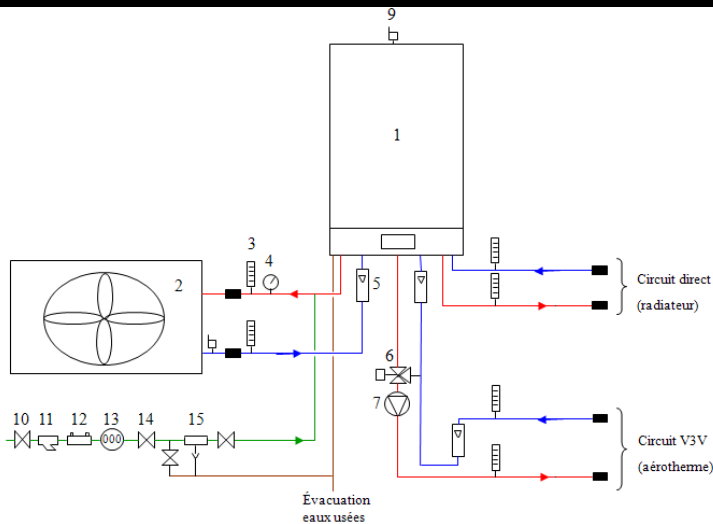
The robust design of this device makes it suitable for use in schools.

The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.

The manufacture of this equipment complies with the European standard for machinery manufacturing.

This equipment can be used alone or with other compatible equipment from our range (see last section of this document).

## Illustrations



## Technical details

Number	Designation
1	Heat pump interior unit
2	Heat pump exterior unit
3	Thermometer 0-100°C
4	Manometer 0-4 Bars
5	Water flowmeter
6	Three-way valve with servomotor
7	Circulator
9	Automatic air vent
10	Water supply valve
11	Y Strainer
12	Anti pollution filter
13	Water meter
14	Isolating valve
15	Disconnecter

## Services required

- Electrical supply : 380 Vac – 50 Hz
- Dimensions: (LxWxH mm): 2400 x 853 x 1850
- weight (Kg): 250

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

## Documentation

- User's manual
- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE