

## Cooling tower

### DESCRIPTION

- The cooling tower unit is delivered complete with instrumentation and includes a technical and instruction manual.
- Designed and manufactured to industrial standards.
- Transparent cooling tower.
- The process parameters can be measured and controlled manually.
- Water is in a closed circuit and is automatically added through a control valve.
- Three types of exchange columns are provided.
- Three types of water spraying ducts are provided.



### SUGGESTED APPLICATIONS

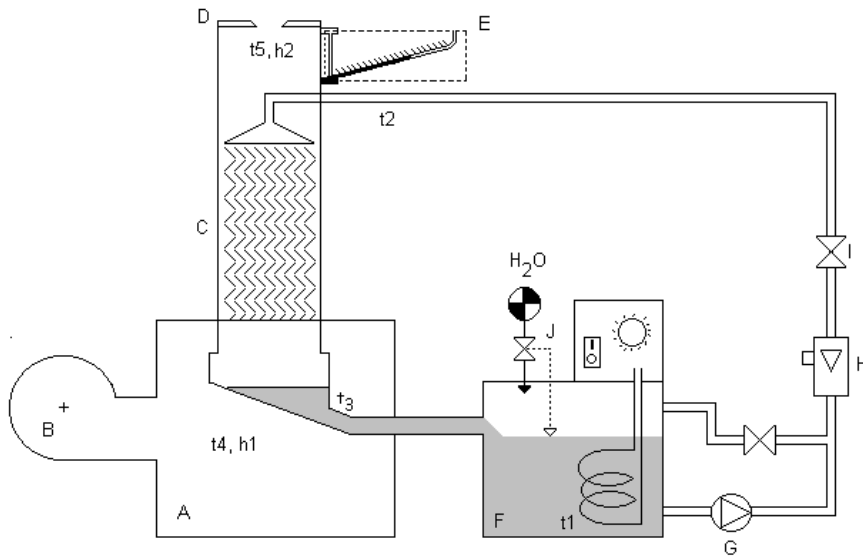
Study of water / air heat exchange.

Showing the path taken by the air on a psychrometric diagram.

Exchange-efficiency results with ducts and fittings

Calculation of the efficiency results by different methods.

# PTR 010



F. Water thermoregulator group  
Water volume : 7L  
Power : 3500W  
Low level security for resistance protection

G. Centrifugal circulation pump  
1.8m<sup>3</sup>/h – 21 mCE

H. Axial turbine flow meter  
0-150L/h

I. Control valve for hot water

J. Automatic water addition  
The water is in a graduate tank (consumption measurement)  
The extra electrovalve is controlled by a level sensor in the F-group.

A. Air distribution chamber

B. Centrifugal fan with variable flow rate

C. Transparent cooling tower  
With three different fittings :  
Rough cellular  
Fine cellular  
Cellular with punched surface

D. Diaphragm for the air flow measurement

E. Differential pressure manometer

t. Temperature measurement

T1 : group water

T2 : tower starting water

T3 : tower return water

T4 : tower entry air

T5 : tower outlet air

h. Relative humidity measurement

H1 : tower entry hygrometry air

H2 : tower outlet hygrometry air

## UTILITIES

Electricity : 230 V single-phase - 50/60 Hz - 2 kW

Water : very low consumption

## DIMENSIONS

Length : 900 mm

Width : 600 mm

Height : 1200 mm

Weight : 45 kg