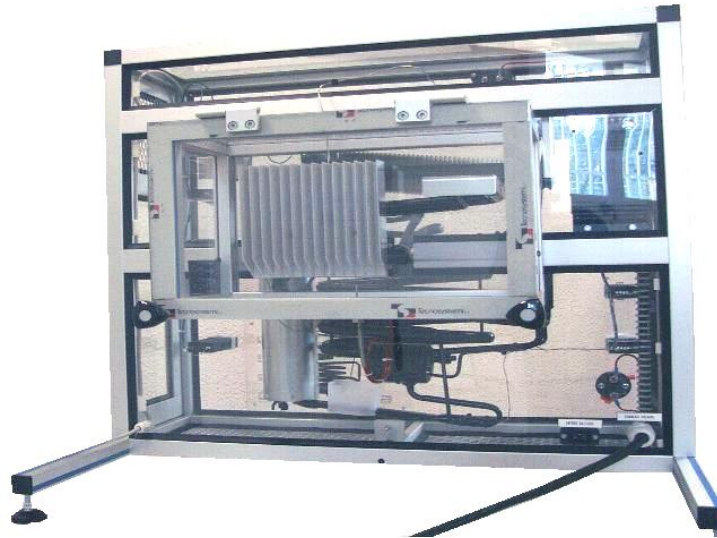


REFRIGERATION CYCLE BY ABSORPTION



Experimental capabilities

- Study and basic concept of a refrigeration installation by absorption of scattering type.
- Study of the important phases of the cycle.
- Analysis of the heat balances in the evaporator and in the other components.

CRANH3



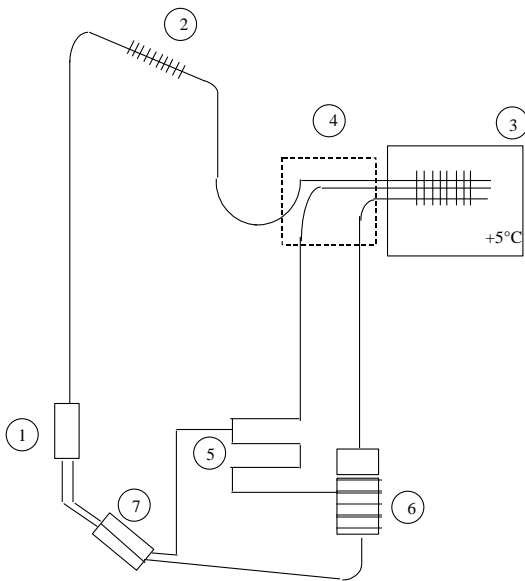
Operating principle

This unit has the distinction of producing low temperatures using a heat source (electric or gas burner) with none of the component rotates. The refrigerating fluid used is the NH₃. The water is used as solvent. The demonstration bench of the refrigerating cycle by absorption is a one stage refrigeration ensemble which diffuses NH₃ in the hydrogen. This technique is most commonly used in domestic applications.

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

1. Boiler
2. Condenser
3. Cold chamber / evaporator
4. A heat exchanger
5. Absorber
6. Receiver
7. A heat exchanger for liquids

Services required

- Electrical supply : 230 Vac – 50 Hz
- Dimensions: (LxWxH mm): 700 x 600 x 1100
- weight (Kg): 60

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
- Pedagogical manual
- Technical documentation of the components
- Certificate of conformity CE

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As part of the continuous improvement of our products, this technical specification may be modified without previous notifying