

Window air conditioning

DESCRIPTION

- v The unit is composed of a hermetic compressor, an air condenser and an air evaporator . the working is a "cold only" type one.
- v It is placed on the side of a plexiglass chamber which represent the floodlight to be conditioned, of horizontal window mounting. The volume of this is 4m³.
- v Different failures can be simulated so much on refrigerating and water circuit as on the electric one

PEDAGOGIC APPLICATIONS

Functioning and maintenance of a window conditioner

Functioning of a refrigerating system with vapour compression

Drawing up of the refrigerating cycle – computation of the balance

Adjustment of the functioning parameters

Diagnostic of failures.

TECHNICAL CHARACTERISTICS

The calorific power is 2300 watt, treated air flowrate is 420 m³/h, if the internal ambient temperature is 27°C BS/19°C BH and the external one is 35°C BS.

The window conditioner correspond to the most common of the tertiary rooms of the conditioning business. It has an aluminium extruded section on self-directive wheels with brake.

The unit is equipped with an instrumentation (flowrates - temperature – pressures – electric powers) allowing the complete study of the process : drawing up of the refrigerating cycle on enthalpic diagram, computation of the thermic balance, computation of the global output.