CRM012



MAINTENANCE OF AN ICE MACHINE



FAILURE SIMULATION ON COLD CIRCUIT	STUDY AND CALCULATION
AND ELECTRIC BY INFRARED REMOTE	Power to the compressor
CONTROL	Power to the condenser
Evaporator thermostat default	Power to the evaporator
Thermostat default too full ice tray	
Compressor default	Operation and maintenance of an ice
Condenser default	machine
Pump default	System of molding and demolding of ice
Default solenoid valve hot gas	cubes
Water solenoid valve default	Operation of a refrigeration system,
	injection mechanism (for demolding)

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Operating principle

The maintenance system is based on a machine, a pallet ice machine. It includes a refrigeration unit, a molding system and demolding ice, a storage tray and conservation of ice cubes and all the accessories and components necessary for operation of the machine.

The upper wall is transparent in order to visualize the process of manufacturing and demolding of ice. The bench is fully instrumented in order to analyze the system operation.

A remote control allows the creation of 7 failures in the system.

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

The equipment is set up on an Anodized aluminium frame on caster 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.

Illustrations





Electrical box

- Power supply switch.
 Voltage presence light.
- Ollage presence light
 Dellet ice mechine
- 4. Pallet ice machine

1.

 Drip tray of ice cubes with drainage (bottom right) for water and thermostat "full tray" (the thermostat was lowered in order to reduce the time to reach the fill level.

Technical details

- 6. Operating setting switch of the ice machine.
- 7. Safety pressure switch
- 8. Low pressure manometer 1 to 10 bars for R134a.
- 9. High pressure manometer 1 to 29 bars for R134a.
- 10. Float flowmeter of refrigerant by magnetic transmission
- 11. Sight glass with humidity indicator
- Support chassis profile anodized aluminum with shutter equipped with 4 directional wheels with brake
- 13. Failures creation system with remote control

Services required

- Electrical supply : 230 Vac 50 Hz 10 A
- Electrical network : 1 phase(s) + Neutral + Earth.
- Water supply : 10 L/min 2 bars
- Water drain : on the floor
- Dimensions: (LxWxH mm): 1030 x 695 x 1580
- weight (Kg): 65

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
- Wiring diagram
- Schematic diagram
- Lab exercises
- Certificate of conformity CE

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