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Product Name :
Capacity Control In Refrigeration Systems

Product Code :
LBNY-005-125000110



Description :

Refrigeration circuit with compressor, condenser and 2 evaporators in insulated refrigeration chambers

Methods for capacity control in refrigeration systems

Compressor with variable speed via frequency converter

Capacity controller in the compressor by pass

Each refrigeration chamber with adjustable heater to generate a cooling load, thermostatic expansion valve and fan

1 refrigeration chamber with thermostat, solenoid valve and evaporation pressure controller for temperature control

1 refrigeration chamber with refrigeration controller for temperature control; solenoid valve, fan and defrost heater as actuators

Technical Specification :

Refrigeration Controller

3 outputs

3 inputs

Thermostat: -5...20°C

Evaporation pressure controller: 0...5,5bar

Capacity controller: 0,2...6bar

Compressor

Drive motor: 550w

Refrigeration capacity: approx. 560w at -5/25°C and 1450min⁻¹

4 fans: max. Volumetric air flow rate: approx. 36,5m³/h

2 heaters: approx. 500w

1 defrost heater: approx. 75w

Measuring Ranges

Heater power: 2x 0...1000w

Pressure: 3x -1...9bar; 1x -1...24bar

Compressor speed: 465...975min⁻¹

Temperature: 3x -60...50°C.



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