

Product Name : " MULTI COMPRESSOR REFRIGERATION CONTROL "
Product Code : " R.A.C 29 "



Description :

MULTI COMPRESSOR REFRIGERATION CONTROL:-

AIM:-

Combined operation of compressors:-

- Power measurement
- Function of a compound controller
- Cyclic process on the p-h state diagram

INTRODUCTION:-

Refrigeration is the branch of science that deals with the process of reducing and maintaining the temperature of a space of material below the temperature of the surrounding. Heat must be removed from the body being

refrigerated and transferred to another whose temperature is below that of the refrigerated body.

TECHNICAL SPECIFICATION:-

In high capacity refrigeration systems several compressors are often used in combination. This compound system is controlled via a regulator so that individual compressors can be switched in, depending on the performance required

Specification

1. Mobile refrigeration system to demonstrate the combined operation of compressors.
2. Control of compressors via compound controller with speed-controlled fan.
3. Closed brine circuit with heater.
4. Electronic sensors record measurement data.
5. PC data acquisition with software.
6. Coaxial evaporator with expansion valve.
7. Observation of oil return by means of sight glasses in the pipes.
8. Refrigerant R134a, CFC-free.
9. Air-cooled compressor compound with 3 hermetic compressors

10. Coaxial evaporator with expansion valve.

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