

Cold Storage Simulator

(Series: RE-CST)

Catalog ID: TC19



Cold Storage Simulator (RE-CST-series)

1. Hermetically Sealed Reciprocating Compressor:
1/10hp (RE-CST-01) & 1/4hp (RE-CST-02), R-134a
2. Forced Air Cooled Condenser
3. Forced Air Cooled Evaporator c/w Defrost Heater
4. Capillary Tube (RE-CST-01) & TXV (RE-CST-02)
5. Suction Accumulator:
42mm(OD), 120mm(H), 1/4"SAE (RE-CST-01)
42mm(OD), 150mm(H), 3/8"SAE (RE-CST-02)
6. Liquid Line Filter Drier: 3 cubic inch, 1/4"SAE
7. Vertical Liquid Receiver:
35mm(OD), 115(H), 1/4"SAE (RE-CST-01)
35mm(OD), 130(H), 1/4"SAE (RE-CST-02)
8. Moisture Indicators for discharge, liquid and suction line
9. Shut-Off Valves for Filter Drier replacement
10. Pump-down Solenoid Valve: 1/4"SAE
11. Dual Pressure Control
12. Condenser Fan Cycling Control
13. Bourdon type, oil filled Low Pressure Gauge
14. Bourdon type, oil filled High Pressure Gauge
15. Access port: Suction, Discharge, and Liquid Line 1/4"SAE
16. Cold Room size:
580mm(L) x 406mm(W) x 260mm(H) (RE-CST-01)
580mm(L) x 406mm(W) x 300mm(H) (RE-CST-02)
17. Sandwich Panel size: 200mm(H) x 58mm(W) x 30mm(Tk)
18. Door Type: Sliding, 116mm(W) x 170mm(H) c/w door heater
19. Pressure Ventilator
20. Interior Light w/switch
21. Piping Diagram c/w indicator lights
22. Instrument and Control Panel: Voltmeter, Ammeter, Circuit Breaker, Cam Switch, Temperature Controller, 5 Channels Temperature Indicator with Selector Switch, Variable Speed for Condenser and Evaporator Fans, Variable Heat Load.
23. Unit Protected by Earth Leakage Circuit Breaker.

Experimental Capabilities:

- Familiarization with Cold Storage System
- Familiarization with Cold Storage Installation
- Familiarization with Cold Storage Electrical
- Determination Compressor input power
- Determination degree of superheat in the Evaporator
- Determination degree of subcooling in the Condenser
- Determination degree of subcooling in the Liquid line
- Determination the Coefficient of Performance
- Plotting Refrigeration Cycle into P-h Diagram
- Investigating of the system malfunction
- Investigating of the electrical malfunction

Optional Fault Simulators:

RE-CST-F11 (Eleven Electrical Fault Simulators)

Power Requirement:

Single Phase, 220-240VAC/50Hz

Experiment Manual & Job Sheet:

The Experiment Manual & Job Sheet available in English Version or Bahasa Indonesia (depend on customer request).

Unit Dimensions:

RE-CST-01: 1100mm(L) x 645mm(W) x 720mm(H)

RE-CST-02: 1400mm(L) x 645mm(W) x 720mm(H)

RE-CST-01 + RE-CST-F11 : 1400mm(L) x 645mm(W) x 720mm(H)

RE-CST-02 + RE-CST-F11 : 1600mm(L) x 645mm(W) x 720mm(H)

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