

ULTRA THERMO

CLIMATIC CYCLIC TEST CHAMBER

The Design Brief

- Leading-edge technology
- Service-proven, maintenance-friendly
- Highest possible quality, reliability and durability
- Economical to run, environmentally friendly



Internal Volume	Internal Dimensions	Temperature Range	Humidity Range
125Ltrs	500X500X500mm	-65°C to +180°C	20% to 95% RH
210Ltrs	600X600X600mm	-65°C to +180°C	20% to 95% RH
350Ltrs	700X700X700mm	-65°C to +180°C	20% to 95% RH
425Ltrs	800X800X800mm	-65°C to +180°C	20% to 95% RH
750Ltrs	900X900X900mm	-65°C to +180°C	20% to 95% RH
1000Ltrs	1000X1000X1000mm	-65°C to +180°C	20% to 95% RH
1350Ltrs	1100X1100X1100mm	-65°C to +180°C	20% to 95% RH
1800Ltrs	1200X1200X1200mm	-65°C to +180°C	20% to 95% RH
Custom Size, Temperature, Humidity Range Available			

Performance

Temperature

Control Accuracy : with in +/- 0.5°C

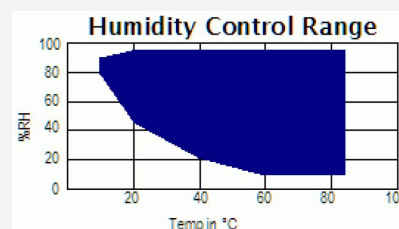
Gradient Accuracy : +/- 1°C

Average Ramp Rate : 2°C to 8°C / minute
between 150 °C & -40 °C

Performance

Humidity

Humidity Control : +/- 2% RH,
Dew Point 5°C



ULTRA THERMO SCIENTIFIC

New No. 19, Old No, 3A, Manimegalai Street, East Tambaram, Chennai 600 059

Phone : 9841025507 Email : ultrathermoscientific@gmail.com; thermo@yours.com

TNGST 0962538/03-04; CST 770373 dt. 17.9.03

ULTRA THERMO

Standard Facility

Rotronics Humidity Probe for Direct
RH Measurement
Access Port with Silicone Plug
5 Pane Viewing Window
Sample Viewing Light
SS 304 Loading Tray
Drain for Condensate
Strip heaters for Door and Window

Auto-refill of DM Water
DM Water Level Controller
Emergency Stop
Door Interlock
Single Phase Preventer
RS232C interface with PC Software
All possible alarms & interlock
Low and High Temperature cutoff

Others

Air / Water Cooled Cascaded Refrigeration System with CFC Free refrigerant
Factory Calibration Certificate traceable to NABL
16 SWG MS Powder Coated Exterior
16SWG SS304 Interior with Full TIG Welding



- All the electrical items used will be of standard IP grade suitable for Humidity chamber
- All the switch gears and MCB's used in the construction shall be of high quality reputed brands.(Schneider Electric)

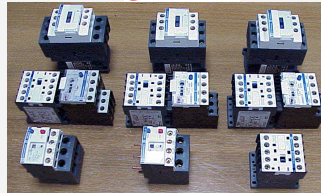
Bitzer UK Compressor



DWM Copeland Condenser



Danfoss



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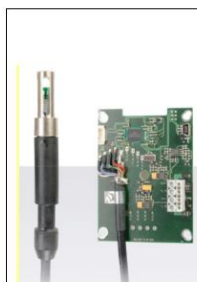
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Danfoss Refrigeration Accessories



Direct Measurement Humidity Probe from Rotronics AG

Rotronics Model XB20 Dual Temperature & Humidity Sensor with Latest Air Chip Digital Technology



Humidity Measurement Sensor Type : Rotronics Hygromer

Temperature Measurement : PT 100 RTD

Humidity Measuring Range : 0 to 100% RH

Accuracy : +/- 1% RH

Temperature Measuring Range : -100degC to +200degC

Operating Limits at Electronics : -40degC to +85degC

Probe cable length : more than 2 mtrs.

Manufacturer : Rotronics, USA

IMPROVED PERFORMANCE IN ENVIRONMENTAL CHAMBERS, INCUBATORS AND DRYERS

- Relative humidity and temperature measurement
- Outstanding accuracy and repeatability
- Wide choice of probes to satisfy every application
- Various analog outputs available
- Freely scalable analog signals
- Simulator mode
- Automatic humidity sensor test and drift compensation
- Pt100 RTD direct 4-wire connection option available
- 2.000 point data recording

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Advantages

Systems designed to work at 35°C Ambient. No Air Conditioning is required for full performance

Direct Sales and Service Support from the Manufacturer. The Equipment will be designed, manufactured and proved to your requirement. Full and immediate technical support will be available directly from the manufacturer

Spares will be available off-the-shelf and the equipment can be brought back to working condition even at the worst breakdown scenario with in 3-5 working days.

Can be made to order. Can be custom made to meet all the specifications.

Factory will be directly involved in the installation and support of the supplied systems. .



Heat / Cold / Constant
Climates / Alternating
Temperatures /
Alternating Climate

IEC 60068,
IEC 60721-4,
DIN40046, part 3,
DIN 72300-4,
DIN 40046
MIL-STD-810, MIL-E-
5272, MIL-STD-202
MIL-STD-331

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OUR CLIENTS



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