

# ULTRA THERMO

## WALK IN CHAMBER - HEAT COLD HUMIDITY SOAKING

### The Design Brief

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



Pharmaceutical Laboratory Rooms

Internal Volume	Internal Dimensions	Temperature Range	Humidity Range
4500 Ltrs	1500 X 1500 X 2000mm	-40°C to +180°C	20% to 95% RH
6000Ltrs	1500 X 2000 X 2000mm	-40°C to +180°C	20% to 95% RH
12000Ltrs	2000 X 2000 X 3000mm	-40°C to +180°C	20% to 95% RH
Custom Size, Temperature, Humidity Range Available			

### Performance

#### Temperature

Control Accuracy : with in +/- 0.5°C

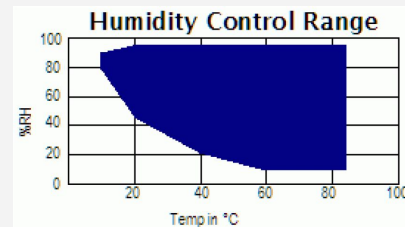
Gradient Accuracy : +/- 1°C

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

### Performance

#### Humidity

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



## ULTRA THERMO SCIENTIFIC

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## 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  
Vibrator Integration Kit

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  
Rail Wheel guide

## Others

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



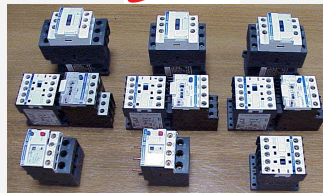
- All the electrical items used will be of standard IP grade suitable for Humidity chamber
- All the switch gears and MCB's used in the construction shall be of high quality reputed brands.( Schneider Electric )

Bitzer UK Compressor

DWM Copeland Condenser



Danfoss



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## 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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# **ULTRA THERMO**

## **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. .

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