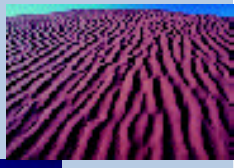
Cincinnati Sub-Zero



RC-Series
Remote Conditioners





ISO-9001
CERTIFIED

Pre-Engineered Performance

RC-Series Test Chambers

Cincinnati Sub-Zero's dual-purpose RC-Series Remote Conditioners are designed to either deliver temperature-conditioned air to remote sites or operate as completely independent, self-contained temperature and temperature/humidity test chambers.

Applications

RC-Series chambers are used to temperature condition specimens during physical tests; temperature condition moving devices in special fixtures that cannot be placed in conventional environmental chambers; add equipment cooling air (ECA) capability to existing AGREE vibration chambers; add boost or back-up heating and cooling to existing temperature test chambers; used as a temperature test chamber for steady state or temperature cycling profiles.

Standard Features

- ☑ Programmable Controller
- ☑ Digital Display Temp. Limit & Alarm
- ☑ EIA-232/485 Computer Interface
- ☑ Interior Light with Switch
- ☑ Fused Electrical Components
- ☑ Local and Remote Temperature Switch
- ☑ Solid State Humidity Sensor*
- ☑ Refrigeration High Temperature Protection
- ☑ Refrigeration Pressure Gauges
- ☑ Refrigeration Service Taps
- ☑ Zero Ozone Depletion Refrigerants
- ☑ Humidity Demineralizer Cartridge*
- ☑ 4" or 6" Air Supply and Return Ports
- ☑ 2.875" Access Port
- ☑ Two 10' Flexible Insulated Ducts
- ☑ Brushed Stainless Steel Interior
- ☑ Non-Settling Low "K" Factor Fiberglass Insulation
- ☑ Casters (RC-308)
- ☑ Fog-Free Window

*Humidity Units Only

Optional Accessories

- ☑ Access Ports
- ☑ Casters (RC-816, RC-832, RC-864)
- ☑ Shelving
- ☑ A Selection of Controllers
- ☑ Windows-Based Software Packages
- ☑ IEEE-488 Computer Interface
- ☑ Running Time Meter
- ☑ 50 Hz. Operation
- ☑ Temperature Recorders
- ☑ Electrical Disconnect Switch
- ☑ CO_2/LN_2 Boost Cooling
- ☑ Dry Air Purge System
- ☑ Recirculating Humidity Water Supply
- ☑ Extended Relative Humidity Range
- ☑ Water Cooled Condenser (Standard on 3HP and up)

Custom Capabilities

- ☑ Explosion-Proof Chambers
- ☑ Custom-Size Chambers
- ☑ Custom Application Chambers
- ☑ Ultra High Temperatures
- ☑ Ultra Low Temperatures
- ☑ Compliance to all Wiring Standards
- ☑ Remote Refrigeration Systems
- ☑ Custom Control Interface Capability
- ☑ Mil-Standard 810C and 810D
- ☑ CE Approval

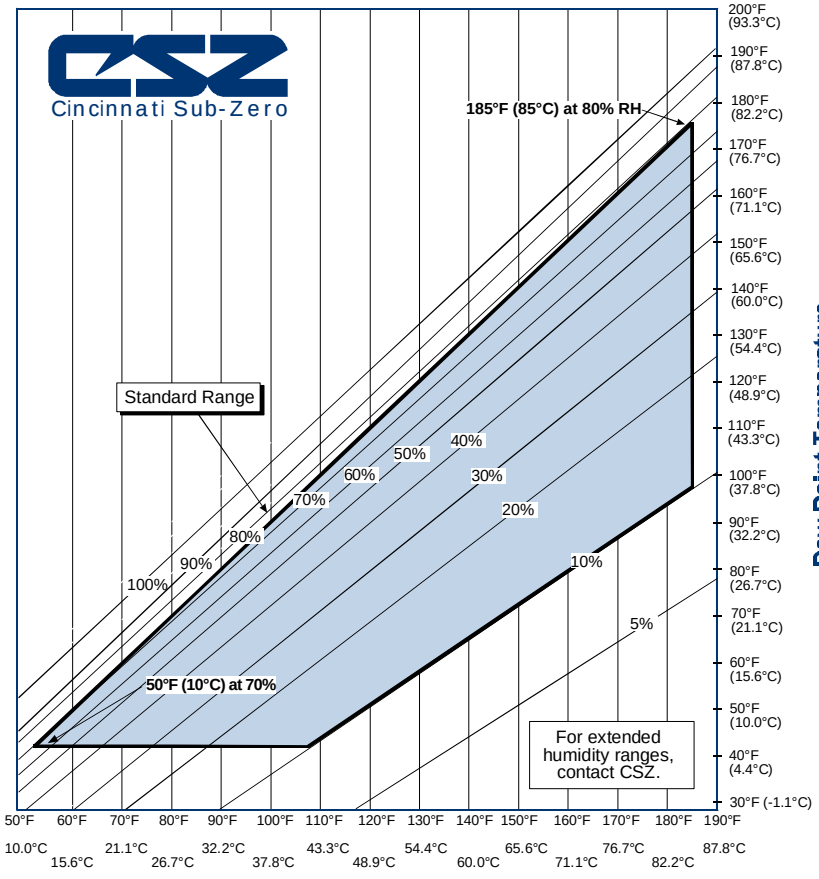
Humidity Specifications

The RCH chambers provide capabilities for humidity and moisture resistance testing such as MIL-STD-202F, method 106E, and MIL-STD-883C, method 1004.6. All models include the following standard equipment.

- ☑ Microprocessor direct RH Programming and control.
- ☑ Unique humidity generation system that provides fast response and tight control by eliminating the boiler.
- ☑ Humidity water demineralizer.
- ☑ Dehumidification coil tolerates frost build-up at low dewpoint conditions.

Achievable Relative Humidity Points

at Remote Conditioner Outlet/Remote Chamber



Basic Specifications - Here's what the RC-Series can do...

Single Stage Models	Blower Capacity (HP)	(CFM)	Net Cooling Capacity in BTU's/HR -18°C	-34°C	-40°C	-54°C	Exterior Dimensions (IN) W	D	H	Interior Workspace (IN) W	D	H	Approx. Shipping Weight (LBS)
RC-308-2	1	300	4420	800	-	-	47.5	54	83	24	24	18	1680
RC-308-3	1	300	7345	1000	-	-	47.5	54	83	24	24	18	1695
RC-816-6	3	800	11840	4500	-	-	53.5	60	90	30	30	24	2365
RC-832-705	3	800	23800	9400	-	-	60.5	67	98	38	38	32	4014
RC-864-10	3	800	34850	14880	-	-	71.5	83	106	48	48	42	5000
RC-864-15	3	800	44900	20950	-	-	71.5	83	106	48	48	42	5435
RCH-308-2	1	300	4420	800	-	-	51	54	83	24	24	18	1730
RCH-308-3	1	300	7345	1000	-	-	51	54	83	24	24	18	1745
RCH-816-6	3	800	11840	4500	-	-	57	60	90	30	30	24	2415
RCH-832-705	3	800	23800	9400	-	-	65	67	98	38	38	32	4074
RCH-864-10	3	800	34850	14880	-	-	75	83	106	48	48	42	5075
RCH-864-15	3	800	44900	20950	-	-	75	83	106	48	48	42	5485
RC-308-2-2	1	300	-	-	2380	1700	47.5	54	83	24	24	18	1750
RC-308-3-3	1	300	-	-	7200	4600	47.5	54	83	24	24	18	1775
RC-816-6-6	3	800	-	-	12000	7000	53.5	60	90	30	30	24	2670
RC-832-705-705	3	800	-	-	17000	9720	60.5	67	98	38	38	32	4364
RC-864-10-10	3	800	-	-	37000	20000	71.5	83	106	48	48	42	5400
RC-864-15-15	3	800	-	-	47000	30000	71.5	83	106	48	48	42	5470
RCH-308-2-2	1	300	-	-	2380	1700	51	54	83	24	24	18	1800
RCH-308-3-3	1	300	-	-	7200	4600	51	54	83	24	24	18	1825
RCH-816-6-6	3	800	-	-	12000	7000	57	60	90	30	30	24	2720
RCH-832-705-705	3	800	-	-	17000	9720	65	67	98	38	38	32	4424
RCH-864-10-10	3	800	-	-	37000	20000	75	83	106	48	48	42	5450
RCH-864-15-15	3	800	-	-	47000	30000	75	83	106	48	48	42	5520
RC-308-LN2/CO2	1	300	-	-	-	5100	47.5	54	83	24	24	18	600
RC-808-LN2/CO2	3	800	-	-	-	15000	47.5	54	83	24	24	18	600

If ambient temperature exceeds 30°C, CSZ recommends a water cooled condenser. The addition of live load will affect humidity control. The addition of certain options may also affect chamber specifications or delivery time. Specifications are subject to change.

Typical Blower Static Performance

Motor (HP)	Static* (in H2O)	CFM
1	1"	460
1	1.75"	300
3	1"	1100
3	2"	1040
3	3"	980
3	4"	800

* Allowable static pressure at remote device.
≦460 CFM is based on two 4" ID x 10' long supply and return ducts (20' total).
≧800 CFM is based on two 6" ID x 10' long supply and return ducts (20' total).

Temperature Range

Single Stage: -34ºC to +190ºC. Utlimate low -40ºC.
Cascade: -68ºC to +190ºC. Ultimate low -73ºC.
LN2 Range: -184ºC to +190ºC
Optional: -85ºC

Humidity Range

10% to 95% Relative Humidity Control as limited by a +85°C maximum dry bulb temperature and a +4°C minimum dew point.

Performance

Performance based on 60 Hz. operation and +24ºC ambient air. For 50 Hz. operation, stated performance and air flow will be approximately 17% less.

Control

In local mode the air temperature control, as measured at the control sensor, is ±1ºC and relative humidity is ±4% after stabilization.

Meeting the needs of our customers...

Cincinnati Sub-Zero has designed thousands of test chambers for special applications. We can custom design the right environmental testing system for you. Whether you require environmental test chambers, thermal shock/temperature cycling units or special calibration bath systems, CSZ is prepared to design and build the test chamber to fit all your needs.

Parts

CSZ maintains a complete parts inventory that are readily available for overnight delivery - increasing your uptime.

Service

Our factory-trained dealer service organizations throughout the world are supported by CSZ field service technicians. This combination of experts assures timely, professional and cost-effective installation, start-up, and service.

With Sales and Service locations across the United States, we can provide complete customer support for all of your environmental simulation needs.



CSZ
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INTERTECHNOLOGY INC.
1-800-465-1600

Tel: 416-445-5500
Fax: 416-445-1170
E-Mail: sales@intertechnology.ca
Website: www.intertechnology.com