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Available From:

LR

*ENVIRONMENTAL
EQUIPMENT & TEST LAB*

Note: Data Sheet For Reference Only - Actual Chamber May Vary Depending on Model Year, Options, Controllers, and Individual Configuration

RC-SERIES REMOTE CONDITIONERS



ZPRC Series



RC Series

Remote Conditioners

Two chambers for the price of one

Our 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/humidity test chambers. Why purchase two separate chambers? This unique chamber provides the benefits of two different products in one unit.

Versatile Design for a Variety of Applications

- 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 chambers.
- Add boost or back up heating and cooling to existing temperature test chambers.
- Use as a temperature test chamber for steady state or temperature cycling profiles.

Remote Enclosures/Hoods

Consider purchasing your enclosure through us. Our RH-Series remote hoods/enclosures provide an air tight seal for optimal performance and are designed to interface with your remote conditioner.



ZPRC Featured Above



Features & Benefits

- Dual-purpose chamber offers flexibility and a greater return on your investment
- Versatile design for use in a variety of applications
- Temperature conditioning devices in special fixtures that cannot be placed in conventional environmental chambers
- Customizable to meet your specific test requirements
- Durable chamber construction for dependability and longer life
- Energy savings provided through a bi-modal heating and cooling system that saves energy and eliminates the need to override the cooling system with an excessively large heating system
- Chamber construction provides customers with the flexibility to incorporate both left and right side ports
- Fully welded ports and shelf pilasters eliminate potential leaks, increasing the life of your chamber
- An electronic humidity sensor is used on all humidity models for accuracy and minimal maintenance



Standard Features

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|------------------------------------|---------------------------------------|---|
| ▪ Brushed Stainless Steel Interior | ▪ Two 10' Flexible Insulated Ducts | ▪ Shelf (ZPRC Only) |
| ▪ Non-Settling Low "K" Factor | ▪ Solid State Humidity Sensor | ▪ Refrigeration High Temperature Protection |
| ▪ Fiberglass Insulation | ▪ Local and Remote Temperature Switch | ▪ Refrigeration Pressure Gauges |
| ▪ Casters (RC-308) | ▪ EZT-570S Touch Screen Controller | ▪ Refrigeration Service Taps |
| ▪ Fog-Free Windows | ▪ Digital Display Temp. Limit & Alarm | ▪ Zero Ozone Depletion Refrigerant(s) |
| ▪ 6" Air Supply and Return Ports | ▪ EIA-232/485 Computer Interface | |
| ▪ 2.875" Access Ports (RC Units) | ▪ Interior Light | |
| ▪ 3.875" Access Ports (ZPRC Units) | ▪ Circuit Breakers | |

Optional Accessories & Custom Capabilities

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|---|---------------------------------------|--|
| ▪ Additional Access Ports | ▪ Running Time Meter | ▪ CO2/LN2 Boost Cooling |
| ▪ Casters (RC 816 & larger) | ▪ 50 Hz. Operation | ▪ Dry Air Purge System |
| ▪ Additional Shelves | ▪ Temperature Recorders | ▪ Recirculating Water Supply |
| ▪ Custom-Size Chambers | ▪ Custom Control Interface Capability | ▪ Water Cooled Condenser (std on 6HP and up) |
| ▪ Explosion-Proof Chambers (RC models only) | ▪ Electrical Disconnect Switch | ▪ RO Water Filtration System |
| ▪ EZ-View Software | ▪ Remote Refrigeration Systems | |
| ▪ IEEE-488 Computer Interface | ▪ Ultra Low Temperatures | |
| | ▪ Extended Relative Humidity Range* | |

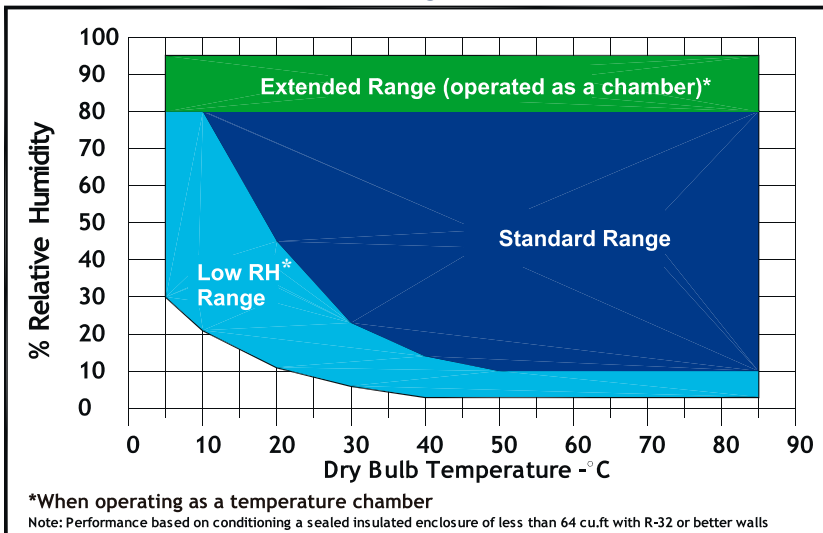
RC-Series Specifications

Workspace Volume	8 cu. ft. (227 L)	16 cu. ft. (453 L)	32 cu. ft. (906 L)	44 cu. ft. (1250 L)	64 cu. ft. (1812 L)
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Temperature / Humidity Range

Remote Conditioner Operation	Single Stage: -30°C to +177°C Cascade: -65°C to +177°C Optional Humidity Range: 10% to 80% RH				
Chamber Operation	Single Stage: -34°C to +190°C Cascade: -70°C to +190°C Optional Humidity Range: 10% to 95% RH				
Internal Dimensions W x D x H Inches (cm)	24" x 24" x 18" (61 x 61 x 46)	30" x 30" x 24" (76 x 76 x 61)	38" x 38" x 32" (97 x 97 x 81)	44" x 38" x 40" (112 x 97 x 101)	48" x 48" x 42" (122 x 122 x 107)
RC-Series External Dimensions W x D x H Inches (cm)	47.5" x 54" x 83" (121 x 137 x 211)	53.5" x 60" x 90" (136 x 152 x 229)	60.5" x 67" x 98" (154 x 170 x 249)	-	71.5" x 83" x 106" (182 x 211 x 269)
ZPRC-Series External Dimensions W x D x H Inches (cm)	36" x 57" x 79" (91 x 154 x 201)	42" x 63" x 85" (107 x 160 x 216)	50" x 71" x 94.5" (127 x 180 x 240)	55.5" x 74" x 102" (141 x 188 x 259)	60.5" x 81" x 104.5" (154 x 205 x 265)

Remote Conditioner Humidity Performance



The addition of live load will affect humidity performance

Humidity Specifications

RCH chambers provide capabilities for humidity and moisture resistance testing, meeting a variety of commercial and military standards.

- Microprocessor direct RH Programming and control
- Humidity generation system that provides fast response and tight control
- Humidity water demineralizer included to remove water impurities
- Solid state humidity sensor provides reliability and reduced maintenance to ensure accuracy

Model	Blower Capacity		Net Cooling Capacity in BTU's/Hr.			
	HP	CFM	-18°C	-34°C	-40°C	-54°C
RC-Series						
Single Stage						
RC-308-2	1	300	4,420	800	-	-
RC-308-3	1	300	7,345	1,000	-	-
RC-816-6	3	800	11,840	4,500	-	-
RC-832-7.5	3	800	23,800	9,400	-	-
RC-864-10	3	800	34,850	14,880	-	-
RC-864-15	3	800	44,900	20,950	-	-
Cascade						
RC-308-2-2	1	300	-	-	2,380	1,700
RC-308-3-3	1	300	-	-	7,200	4,600
RC-816-6-6	3	800	-	-	12,000	7,000
RC-832-7.5-7.5	3	800	-	-	17,000	9,720
RC-864-10-10	3	800	-	-	37,000	20,000
RC-864-15-15	3	800	-	-	47,000	30,000
ZPRC-Series						
Single Stage						
ZPRC-16-3.5	1	300	8,520	-	-	-
ZPRC-16-6	1	300	10,578	-	-	-
ZPRC-32-3.5	1	300	8,530	-	-	-
ZPRC-32-6	1	300	10,578	-	-	-
ZPRC-32-10	3	800	18,767	-	-	-
ZPRC-32-15	3	800	25,591	-	-	-
ZPRC-44-3.5	1	300	7,848	-	-	-
ZPRC-44-6	1	300	9,554	-	-	-
ZPRC-44-10	3	800	18,767	-	-	-
ZPRC-44-15	3	800	25,591	-	-	-
ZPRC-64-3.5	1	300	7,165	-	-	-
ZPRC-64-6	1	300	8,872	-	-	-
ZPRC-64-10	3	800	18,767	-	-	-
ZPRC-64-15	3	800	25,591	-	-	-
Cascade						
ZPRC-16-6-6	1	300	-	-	8,530	6,483
ZPRC-32-6-6	1	300	-	-	8,530	6,483
ZPRC-32-10-10	3	800	-	-	13,649	10,236
ZPRC-32-15-15	3	800	-	-	17,061	13,649
ZPRC-44-6-6	1	300	-	-	7,507	5,459
ZPRC-44-10-10	3	800	-	-	13,649	10,236
ZPRC-44-15-15	3	800	-	-	17,061	13,649
ZPRC-64-6-6	1	300	-	-	6,824	5,459
ZPRC-64-10-10	3	800	-	-	13,649	10,236
ZPRC-64-15-15	3	800	-	-	17,061	13,649

Performance based on 60 Hz. Temperature only operation and 24°C ambient air. If ambient temperature exceeds 30°C, CSZ recommends a water cooled condenser. For 50 Hz. Operation, stated performance and air flow will be approximately 17% less. The addition of live load will affect humidity control. Specifications are subject to change.