



Advanced Test Equipment Rentals
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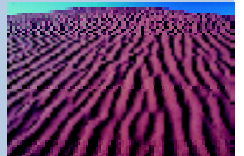
CSZ
Cincinnati Sub-Zero



Z-Series
Temperature/Humidity Chambers

ISO-9001
CERTIFIED

Pre-Engineered Performance



Z-Series Test Chambers

Quality and reliability best describe our standard Z-Series line of test chambers. CSZ offers both single stage and cascade mechanical refrigeration systems with most models available from stock. Four sizes ranging from 8 to 32 cubic feet of workspace offer either temperature or temperature/humidity control. And...all of the most requested features are included.

Standard Features

- Refrigeration High Temperature Protection
 - Digital Display Temp. Limit & Alarm
 - 2.875" Access Port
 - A Selection of Programmable Controllers
 - Humidity Water Demineralizer (ZH models only)
 - Casters
 - EIA-232/485 Computer Interface
 - UL & C-UL-508 Listed Sub-Panel
- Zero Ozone Depletion Refrigerants
 - Refrigeration Pressure Gauges
 - Refrigeration Service Taps
 - Interior Light with Switch
 - Solid State Humidity Sensor (ZH models only)
 - Shelf Supports
 - Fog-Free Window

Optional equipment is economically priced to make your testing work more user-convenient and flexible. A complete selection of optional accessories are available without causing long delays in shipment. Choose from the following list of available options:

Optional Accessories

- Access Ports
 - Electrical Disconnect Switch
 - Dry Air Purge System
 - Water Cooled Condenser
- IEEE-488 Computer Interface
 - Temperature Recorders
 - Extended Relative Humidity Range
 - 50 Hz. Operation
- Shelving
 - CO₂/LN₂ Boost Cooling
 - Recirculating Humidity Water Supply
 - Windows-Based Software Packages

Agency Approvals



BASIC PARAMETERS

Single Stage

-34°C (-30°F) to +190°C (+375°F)

Tundra®

-45°C (-49°F) to +190°C (+375°F)

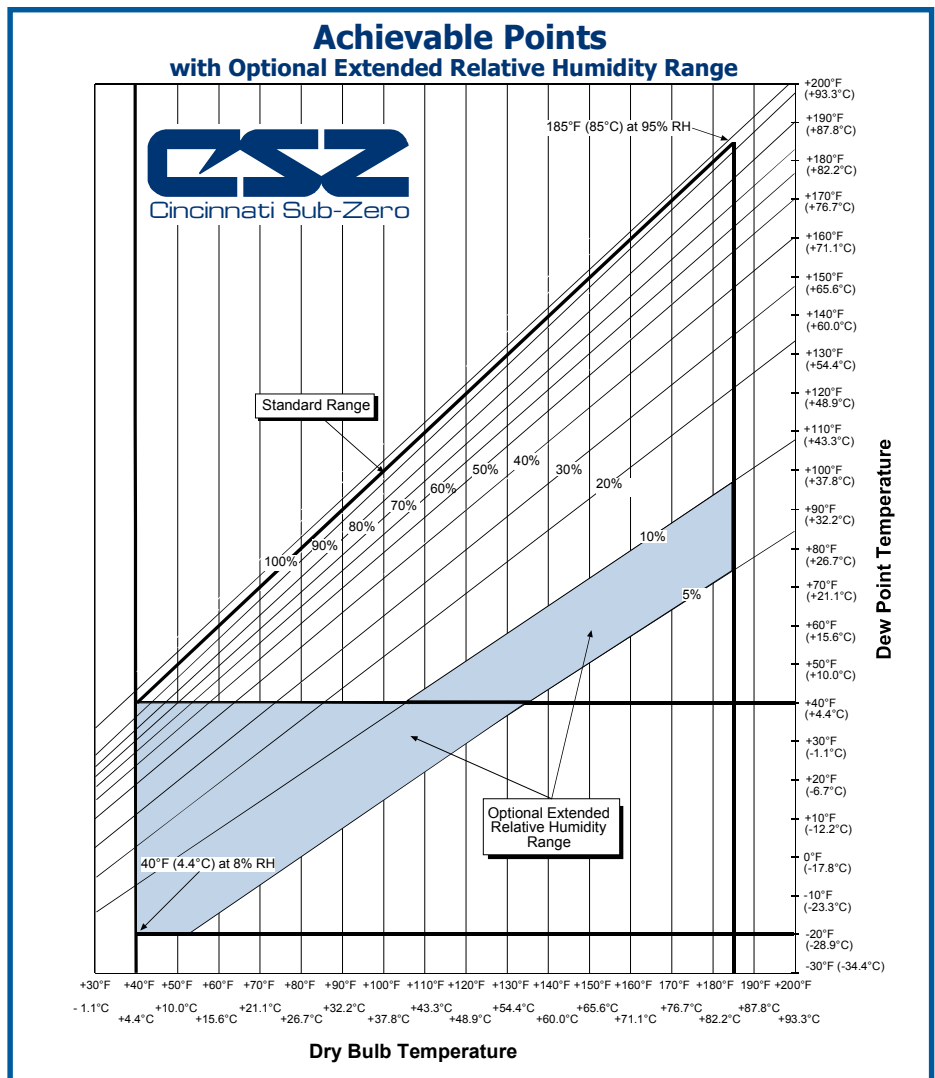
Cascade

-73°C (-100°F) to +190°C (+375°F)

Standard Humidity Range

10% to 95% RH relative humidity as limited by a +85°C (+185°F) maximum dry bulb and +4°C (+40°F) minimum dewpoint.

Extended High & Low Humidity ranges are available



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

MODEL	COOLING PERFORMANCE WITH EMPTY CHAMBER					HEATING PERFORMANCE WITH EMPTY CHAMBER				LIVE LOAD CAPACITY (WATTS)			
	Minutes from 24°C to:					24°C to		-34°C to 24°C	-68°C to 24°C	-18°C	-34°C	-40°C	-54°C
	-18°C	-34°C	-40°C	-54°C	-68°C	93°C	190°C						
Z(H)-2-33-33	-	-	25	35	65	30	60	20	30	-	-	200	150
Z(H)-8-1	20	40	-	-	-	10	25	10	-	650	225	-	-
Z(H)-8-1-1	-	-	25	35	55	10	25	10	15	-	-	650	450
*Z(H)-8-2	7	-	20	-	-	6	15	5	-	1800	-	725	-
Z(H)-16-2	10	20	-	-	-	15	35	10	-	1700	760	-	-
Z(H)-16-2-2	-	-	20	25	35	15	35	10	20	-	-	1500	1100
*Z(H)-16-3.5	6	-	15	-	-	8	20	6	-	3000	-	1300	-
Z(H)-32-2	15	30	-	-	-	20	55	10	-	1700	760	-	-
Z(H)-32-2-2	-	-	20	30	45	20	55	10	20	-	-	1500	1100
*Z(H)-32-3.5	10	-	25	-	-	12	30	8	-	3000	-	1300	-

MODEL	ELECTRICAL POWER REQUIREMENTS			PHYSICAL SPECIFICATIONS (INCHES/CM)					
	FULL LOAD AMPERES			INTERIOR WORKSPACE			EXTERIOR CABINET		
	115 VOLT (±5%), 1 PHASE, 60 HZ	208/230 VOLT (±5%), 1 PHASE, 60 HZ	208/230 VOLT (±5%), 3 PHASE, 60 HZ	WIDE	DEEP	HIGH	WIDE	DEEP	HIGH
Z-2-33-33	16	-	-	20.5/52	12.5/32	13.75/35	28.5/72	34/86	46/117
ZH-2-33-33	16	-	-	20.5/52	12.5/32	13.75/35	34/86	34/86	46/117
Z-8-1	-	24	22	24/61	24/61	24/61	35/89	51/130	78/198
ZH-8-1	-	27	22	24/61	24/61	24/61	38/97	51/130	78/198
Z-8-1-1	-	33	23	24/61	24/61	24/61	35/89	51/130	78/198
ZH-8-1-1	-	35	26	24/61	24/61	24/61	38/97	51/130	78/198
*Z-8-2	-	39	38	24/61	24/61	24/61	35/89	51/130	78/198
*ZH-8-2	-	42	38	24/61	24/61	24/61	38/97	51/130	78/198
Z-16-2	-	35	31	30/76	30/76	30/76	41/104	58/147	78/198
ZH-16-2	-	35	31	30/76	30/76	30/76	45/114	58/147	78/198
Z-16-2-2	-	51	39	30/76	30/76	30/76	41/104	58/147	78/198
ZH-16-2-2	-	51	39	30/76	30/76	30/76	45/114	58/147	78/198
*Z-16-3.5	-	50	46	30/76	30/76	30/76	41/104	58/147	78/198
*ZH-16-3.5	-	50	46	30/76	30/76	30/76	45/114	58/147	78/198
Z-32-2	-	35	31	38/97	38/97	38/97	49/124	66/168	78/198
ZH-32-2	-	35	31	38/97	38/97	38/97	53/135	66/168	78/198
Z-32-2-2	-	51	39	38/97	38/97	38/97	49/124	66/168	78/198
ZH-32-2-2	-	51	39	38/97	38/97	38/97	53/135	66/168	78/198
*Z-32-3.5	-	50	46	38/97	38/97	38/97	49/124	66/168	78/198
*ZH-32-3.5	-	50	46	38/97	38/97	38/97	53/135	66/168	78/198

Notes: Performance is based on 230 volt, 60 Hz. operation and a 24°C ambient. If ambient temperature exceeds 30°C, CSZ recommends a water cooled condenser. Some models available with increased performance/horsepower. The addition of certain options may affect chamber performance or delivery time. The addition of live load will affect humidity control.

*Indicates Chambers with Tundra Refrigeration System. Specifications are subject to change.

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.

For Parts or Service, contact our Customer Service department at 513-772-8810 or call us toll-free at 1-800-989-7373 for more information.



Cincinnati Sub-Zero

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