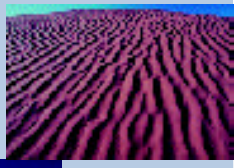
Cincinnati Sub-Zero



CT-Series Test Chambers





ISO-9001
CERTIFIED

Pre-Engineered Performance

CT-Series Test Chambers

Commercial Temperature (CT) Series Chambers are an extension of our Z-Series Line offering heavy-duty construction and even more performance options while maintaining the precise temperature and humidity control essential for product testing today.

The CT-Series Chambers are modular in design for meeting your size requirements and virtually any performance criteria. Standard systems allow the user latitude to modify programs while meeting the most demanding test parameters. Performance can be further enhanced with an extensive variety of optional accessories and custom capabilities.

Standard Features

- ☑ Programmable Controller
- ☑ Digital Display Temp. Limit & Alarm
- ☑ EIA-232/485 Computer Interface
- ☑ Fused Electrical Components
- ☑ Refrigeration High Temperature Protection
- ☑ Refrigeration Pressure Gauges
- ☑ Refrigeration Service Taps
- ☑ Zero Ozone Depletion Refrigerants
- ☑ Brushed Stainless Steel Interior
- ☑ Non-Settling Low "K" Factor Fiberglass Insulation
- ☑ 2.875" Access Port
- ☑ Casters (CT-8)
- ☑ Fog-Free Window
- ☑ Interior Light with Switch

Optional Accessories

- ☑ Access Ports
- ☑ Casters (CT-16 & CT-32)
- ☑ Shelving
- ☑ A Selection of Programmable Controllers
- ☑ IEEE-488 Computer Interface
- ☑ Windows-Based Software Packages
- ☑ Running Time Meter
- ☑ 50 Hz. Operation
- ☑ Temperature Recorders
- ☑ Electrical Disconnect Switch
- ☑ Water Cooled Condenser (Standard on 3HP and up)
- ☑ Recirculating Humidity Water Supply
- ☑ Extended Relative Humidity Range
- ☑ Dry Air Purge System
- ☑ LN_2/CO_2 Boost Cooling

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 CTH 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.
- ☑ Fast response, stainless steel humidity vapor generator is easily accessible for cleaning.
- ☑ Humidity water demineralizer.
- ☑ Dehumidification coil tolerates frost build-up at low dewpoint conditions.

Standard Humidity Range

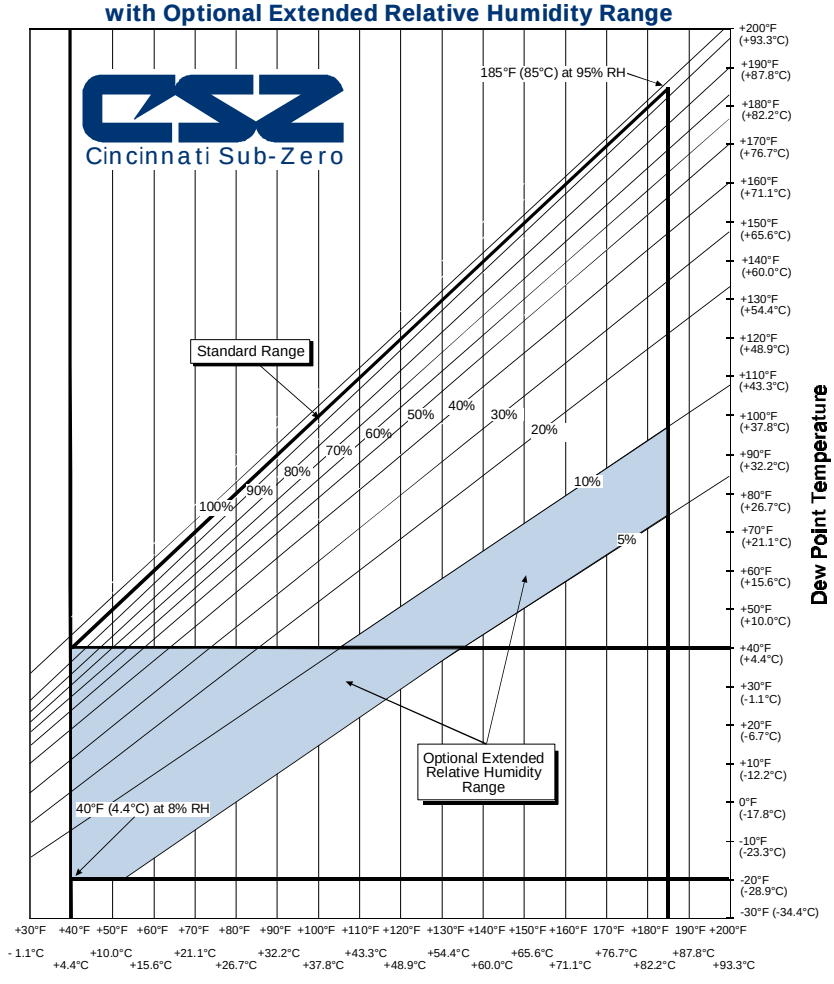
10% to 95% RH relative humidity as limited by a +185ºF (+85ºC) maximum dry bulb and +40ºF (+4ºC) minimum dewpoint.

Extended Humidity Range

5% to 95% RH relative humidity as limited by a +185ºF (+85ºC) maximum dry bulb and -20ºF (-28.9ºC) minimum dewpoint.

Achievable Points

with Optional Extended Relative Humidity Range



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

CSZ Model Number	Electrical Power Requirements Full Load Amps			Cooling Performance Empty Chamber in Minutes					Heating Performance Empty Chamber in Minutes				Live Load Capacity in Watts at				Approx. Shipping Weight
	208V ±5%	230V ±5%	460V ±5%	24°C to					24°C to		-34°C	-68°C					
	3PH, 60Hz	3PH, 60Hz	3PH, 60Hz	-18°C	-35°C	-40°C	-54°C	-68°C	93°C	190°C	to 24°C		-18°C	-34°C	-40°C	-54°C	(lbs.)
CT-8-2	37	34	-	7	21	-	-	-	10	20	6	-	1700	760	-	-	1500
CT-8-2-2	48	42	-	-	-	15	20	30	10	20	-	10	-	-	1200	900	1550
CT-8-3	43	40	20	5	14	-	-	-	10	20	6	-	2560	1400	-	-	1600
CT-8-3-3	61	54	28	-	-	10	15	25	10	20	-	10	-	-	2050	1660	1700
CT-16-2	39	36	-	10	20	-	-	-	12	25	10	-	1700	760	-	-	2000
CT-16-2-2	50	44	-	-	-	20	25	35	12	25	10	15	-	-	1500	1100	2300
CT-16-3	45	42	21	8	15	-	-	-	12	25	10	-	2560	1400	-	-	2750
CT-16-3-3	63	56	29	-	-	15	20	30	12	25	-	15	-	-	2050	1660	3000
CT-16-6	68	64	35	5	10	-	-	-	10	20	7	-	3600	1800	-	-	2850
CT-16-6-6	104	94	46	-	-	10	15	25	10	20	-	10	-	-	3000	2400	3150
CT-32-2	39	36	-	15	30	-	-	-	15	30	12	-	1700	760	-	-	3000
CT-32-2-2	50	44	-	-	-	20	30	45	15	30	-	15	-	-	1500	1100	3150
CT-32-3	45	42	21	9	20	-	-	-	15	30	12	-	2560	1400	-	-	3500
CT-32-3-3	63	56	29	-	-	15	25	40	15	30	-	15	-	-	2060	1660	3800
CT-32-6	68	64	35	7	15	-	-	-	10	30	8	-	3600	1800	-	-	3500
CT-32-6-6	104	94	46	-	-	10	20	30	10	30	-	12	-	-	3000	2400	4000
CT-32-705	-	-	36	5	10	-	-	-	8	20	6	-	5260	2850	-	-	4500
CT-32-705-705	-	-	53	-	-	8	15	20	8	20	-	10	-	-	4080	3300	4700
CT-64-3	45	42	21	12	30	-	-	-	25	60	20	-	2560	1400	-	-	4000
CT-64-3-3	63	56	29	-	-	25	35	55	25	60	-	25	-	-	2060	1660	4300
CT-64-6	68	64	35	10	26	-	-	-	15	45	15	-	3600	1800	-	-	4300
CT-64-6-6	104	94	46	-	-	15	20	35	15	45	-	20	-	-	3000	2400	4800
CT-64-705	-	-	36	8	18	-	-	-	12	35	10	-	5260	2850	-	-	4800
CT-64-705-705	-	-	53	-	-	10	15	30	12	35	-	18	-	-	4080	3300	5000
CT-64-10	-	-	43	6	12	-	-	-	15	35	10	-	6400	3400	-	-	5000
CT-64-10-10	-	-	62	-	-	7	12	16	15	35	-	20	-	-	5340	4320	5100
CT-64-15	-	-	54	5	10	-	-	-	15	35	10	-	10880	5300	-	-	5200
CT-64-15-15	-	-	81	-	-	5	9	12	15	35	-	20	-	-	7600	6160	5400

Performance is based on 230 volt operation and a 75°F ambient. If ambient temperature exceeds 85°F, CSZ recommends a water cooled condenser. Specifications are subject to change. The addition of live load will affect humidity control. The addition of certain options may also affect chamber specifications or delivery time.

CSZ Model Number	Physical Specifications Dimensions in Inches					
	Interior Workspace			Exterior Workspace		
	Wide	Deep	High	Wide	Deep	High
CT-8	24	24	24	46	54	76
CT-16	30	30	30	52	60	84
CT-32	38	38	38	60	67	92
CT-64	48	48	48	70	83	100

Temperature Range

Single Stage: -34ºC to +190ºC (-30ºF to +375ºF). Utlimate low -40ºC.
Cascade: -68ºC to +190ºC (-90ºF to +375ºF). Ultimate low -73ºC.
LN2 Range: -184ºC to +190ºC (-300ºF to +375ºF)
Optional: -85ºC (-120ºF)

Performance

Performance based on 60 Hz. operation and +75ºF ambient air. For 50 Hz. operation, stated performance and air flow will be approximately 17% less.

Control

Air temperature control as measured at the control sensor ±1ºC and relative humidity ±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
Cincinnati Sub-Zero

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