

## GENERAL DESCRIPTION Z/ZH-Series

### CSZ Test Chamber MODEL ZH-32 SPECIFICATIONS

**NOTE:** Additions of certain options will effect performance

**Temperature Range:**

-73°C (-100°F) to 190°C (375°F) Cascade  
-34°C (-30°F) to 190°C (375°F) Single Stage

**Humidity Range:**

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

**Temperature Stability:**

+/-1°C (+/-2°F); +/-4% relative humidity at steady state condition after stabilization.

**Temperature Performance:**

Cascade

Temperature pulldown from 23°C (75°F) to:  
-40°C (-40°F) in 20 minutes.  
-54°C (-65°F) in 30 minutes.  
-68°C (-90°F) in 45 minutes.

Single Stage

Temperature pulldown from 23°C (75°F) to:  
-18°C (0°F) in 17 minutes.  
-34°C (-30°F) in 30 minutes.

Temperature heatup from 23°C (75°F) to:

+93°C (200°F) in 20 minutes.                      +190°C (375°F) in 55 minutes.

**Live Load Capacity:**

Cascade

1500 watts at -40°C (-40°F)  
1100 watts at -54°C (-65°F)

Single Stage

1700 watts at -18°C (0°F)  
760 watts at -34°C (-30°F)

Interior Dimensions

965mm (38in)W x 965mm (38in)D x 965mm (38in)H.

Exterior Dimensions

1320mm (52in)W x 1630mm (64in)D x 1960mm (77in)H.  
(Addition of certain accessories may increase dimensions)

**Shipping Weight**

Cascade: 646 kg (2175 lbs.)                      Single Stage: 624kg (2075 lbs.)

**Utility Requirements:** 208/230 volt (+/-5%), 60 Hz.

ZH-32-S                      -1 phase, 35 full load amperes.                      -3 phase, 31 full load amperes.  
ZH-32-C                      -1 phase, 51 full load amperes.                      -3 phase, 39 full load amperes.

Heat Rejection: Approximately 9,000 watts (30,000 BTU/hr) maximum during cooling operation

Included Accessories:

- Viewing window, 13 1/2 H x 20 1/2 W
- Interior light with switch
- Casters, heavy-duty, 75mm (3in) wheel
- Access port, 70 mm (2.875 in.)
- Shelf supports
- Refrigeration service taps
- Humidity water demineralizer
- Communications port

Included Instruments:

- CSZ Dimension II Custom Logic Controller

Model ZH-32 Temperature Chamber Specifications