MODEL Z-32/ ZH-32 SPECIFICATIONS

NOTE:
Additions of certain options will effect performance

Temperature Range
-73ºC (-100ºF) to 190ºC (375ºF) Cascade
-34ºC (-30ºF) to 190ºC (375ºF) Single Stage

Temperature Stability
±1ºC (±2ºF); ±4% relative humidity at steady state condition after stabilization (usually 1 hour)
±1ºC (±2ºF); at steady state condition after stabilization (usually 1 hour)

Temperature Performance
Cascade:
Temperature pulldown from 23ºC (75ºF) to:
-40ºC (-40ºF) in 20 minutes.
-54ºC (-65ºF) in 30 minutes.
-68ºC (-90ºF) in 45 minutes.

Single Stage:
Temperatue pulldown from 23ºC (75ºF) to:
-18ºC (0ºF) in 15 minutes.
-34ºC (-30ºF) in 30 minutes.

Temperature heatup from 23ºC (75ºF) to:
+93ºC (200ºF) in 20 minutes. +190ºC (375ºF) in 55 minutes.

Live Load Capacity

Cascade	Single Stage
1500 watts at -40ºC (-40ºF)	1700 watts at -18ºC (0ºF)
1100 watts at -54ºC (-65ºF)	760 watts at -34ºC (-30ºF)

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

Exterior Dimensions
1320mm (53in)W x 1630mm (66in)D x 1960mm (78in)H
(Addition of certain accessories may increase dimensions)

Shipping Weight
Cascade: Approx. 2175 lbs. Single Stage: Approx. 2075 lbs.
Cascade: Approx. 2100 lbs. Single Stage: Approx. 2000 lbs.

Utility Requirements: 208/230 volt (-0%, +5%), 60 Hz.

Z/ ZH-32-2-H/AC	1 phase, 35 full load amperes.	3 phase, 31 full load amperes.
Z/ ZH-32-2-2-H/AC	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, 12 3/4 H x 19 3/4 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:
- Watlow F4 Controller and High/Low Limit

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