

Environmental Test Chambers

HPAV-48 Series Environmental Chambers (Temperature & Humidity Test Chambers)

Features:

- Zero-cross DF-PID type temperature and humidity control
- Mechanical single-stage compression freezing system
- Air cooling full-sealing rotary freezer
- Capillary tube freezer expansion mechanism
- Multi-plate fin coil refrigerator
- Nichrome wire strip warming heater
- Seeds (plug type) humidifying heater
- Independent overheat protector, and reverse-phase protection (3-phase model only)
- HP-102 (digital display) programmable temperature & humidity controller
- HP-102 operation mode/pattern: fixed-value operation, timer (Time-On/Time-Off), programmed operation (6 steps in 1 pattern, 8 steps in 2 patterns, 10 steps in 1 pattern, and 2 linked patterns)
- HP-102 digital display (temperature, humidity and time) and seat key input.TFT color LCD (setting, trend graph, operation selectable, error), touch-key input,CF card input (program pattern)
- HP-102 temperature & humidity electronic sensor (temperature: Pt 100 Ω , humidity: high polymer electrostatic humidity sensor)
- HP-102 standard functions: self-diagnostic function (17 types), and PC integrated control system (RS - 485 communication)
- Cable hole with internal diameter 30mm
- Feed water pump
- Shelf plates (2)
- Shelf rack holders (2)
- Drip tray
- Operation manuals

Options:

- Caster



Self rack
 Large-load shelf rack holder
 Angle frame
 Recorder
 Rotating lamp
 Left-open door
 Internal door
 Different voltage type
 Dry and wet bulb type
 Water-cooling freezer

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Model	HPAV-48-20, HPAV-48-40
Voltage	AC100V-1 ϕ (50/60Hz, fluctuations +/-10%) (48-20) AC200V-3 ϕ (50/60Hz, fluctuations +/-10%) (48-40)
Maximum Current	15A (48-20) 7.8A (48-40)
Operating Ambient Temperature	5 to 35 °C
Temperature Range	-20 to +120 °C (48-20) -35 to +120 °C (48-40)
Temperature Fluctuation Range	+/-0.8 °C
Temperature Distribution	+/-0.8 °C
Humidity Range	30 to 98% RH
Humidity Fluctuation Range	+/-3.0% RH (at 40 °C)
Humidity Distribution	+/-3.0% RH (at 40 °C)
Temperature Warm-up Time (at 23 °C)	-20 °C to +120 °C Less than Approx. 60 min.
Temperature Cool Down Time (at 23 °C)	+20 °C to -20 °C Less than Approx. 60 min. (48-20) +20 °C to -35 °C Less than Approx. 90 min. (48-40)
External Material	Melamine coating finish
Chamber Material	Stainless steel (SUS304BA) mirror finish
Insulation Material	Glass wool
Freezer Capacity	0.15 kW (48-20) 0.6 kW (48-40)
Warmer Capacity	0.5 kW (48-20) 0.9 kW (48-40)
Humidifier Capacity	0.75 kW (48-20) 1.0 kW (48-40)
Agitation Fan in the Chamber	Sirocco fan 60W

Tank Water Quality	Demineralized water less than 10 μ S/cm
Content Volume	48 L
Inside Dimensions	400W x 300D x 400H mm
Outside Dimensions	570W x 685D x 1200H mm
Weight	90 kg

Factory Sales and Technical Support Center

Hastest Solutions Inc., 4423 Fortran Drive, Building 190, San Jose, CA 95134, USA

Tel: 408 945 7861 Fax: 408 262 6699