

Environmental Test Chambers

HPAF-800 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

Constant pressure expansion valve and automatic expansion valve

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)

Observation window

Chamber lamp (60W)

Cable hole with 50 mm internal diameter

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	Model HPAF-800-20, HPAF-800-40
Voltage	AC200V-3 ϕ (50/60Hz, fluctuations +/-10%)
Maximum Current	33A (800-20) 34A (800-40)
Temperature Range	-20 to +150 °C
Temperature Fluctuation Range	+/-3.0 °C (+/-0.5 °C at 100.1 to 150 °C)
Temperature Distribution	+/-3.0 °C (+/-0.75 °C at 100.1 to 150 °C)
Humidity Range	20 to 98% RH (800-20) 40 to 98% RH (800-40)
Humidity Fluctuation Range	+/-2.5% RH
Humidity Distribution	+/-2.0% RH
Temperature Warm-up Time (at 23 °C)	-20 °C to +150 °C Less than Approx. 55 min. (800-20) -40 °C to +150 °C Less than Approx. 55 min. (800-40)
Temperature Cool Down Time (at 23 °C)	+20 °C to -20 °C Less than Approx. 50 min. (800-20) +20 °C to -40 °C Less than Approx. 60 min. (800-40)
External Material	Stainless steel plate (SUS430HL) Hair-line finish
Chamber Material	Stainless steel (SUS304BA) mirror finish
Insulation Material	Glass wool
Freezer Capacity	1.5 kW (800-20) 2.2 kW (800-40)

Warmer Capacity	4.5 kW
Humidifier Capacity	4.0 kW
Agitation Fan in the Chamber	Sirocco fan 60W X 2
Tank Water Quality	Demineralized water less than 10 μ S/cm
Content Volume	800 L
Inside Dimensions	1000W x 800D x 1000H mm
Outside Dimensions	1520W x 1335D x 1855H mm
Weight	535 kg (800-20) 585 kg (800-40)

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