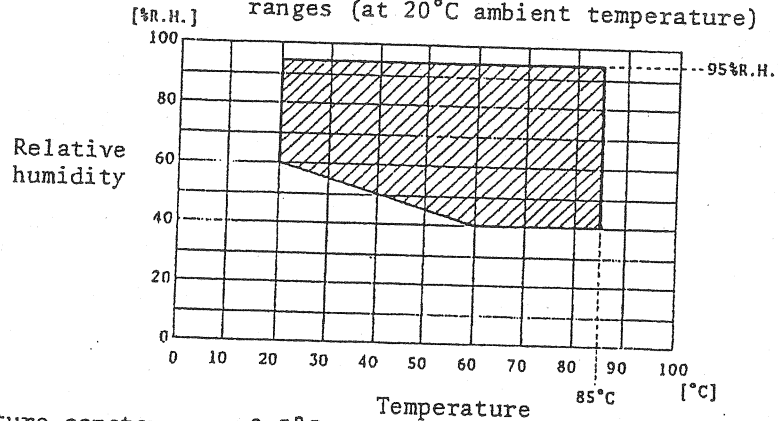




Advanced Test Equipment Rentals

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- 1.1 Name of product Humidity Cabinet (with refrigeration unit)
- 1.2 Model LHU-112M-U
- 1.3 Temperature and humidity control system Balanced temperature and humidity control system
- 1.4 Power supply 115VAC, $\pm 10\%$, 1 ϕ , 60 Hz, 15A
- 1.5 Ambient temperature Operatable range: 0 ~ 40°C
Performance assured range: 5 ~ 35°C
(however, excluding the humidity range)
- 1.6 Performance (without specimen)
 - Temperature range -20 ~ +85°C (at ambient temperature of below 35°C)
 - Humidity range Temperature and humidity controllable ranges (at 20°C ambient temperature)



- Temperature constancy $\pm 0.5^\circ\text{C}$
- Humidity constancy $\pm 3\% \text{R.H.}$
- Temperature uniformity $\pm 2^\circ\text{C}$
- Humidity uniformity $\pm 6\% \text{R.H.}$
- 1.7 Construction
 - Exterior Cold-rolled steel plate (EGC) with baked coating
 - Interior 18-8 Cr-Ni stainless steel
 - Temperature and humidity indicator-controller
 - Control system Electronic PID independent control system (with an automatic overheat protection circuit)

Temperature indicating range	-99.9 ~ +99.9°C
Temperature setting range	-89.9 ~ +89.9°C
Relative humidity	
Indication range	0 ~ 99%R.H.
Setting range	0 ~ 99%R.H.
Setting system	Digital switching system (relative humidity direct setting system)
Indication and setting resolution	Temperature 0.1°C, Relative humidity 1%R.H.
Temperature sensor	Thermocouple type T (Copper/Copper-Nickel) (dry & wet bulb sensing)
Remote I/O	Temperature 1 mVDC/°C Relative humidity 1 mVDC/%R.H.
Accessory mechanism	Zero-volt switching mechanism, input burnout mechanism, heater output indication mechanism, and automatic over-heat protection circuit
Air circulator	Propeller fan ø200 mm
Heater	Nichrome strip wire 600W
Humidifier	18-12-2.5 Cr-Ni-Mo stainless steel Sheathed heater 400W
Refrigeration unit	Hermetically sealed compressor, 180W, air-cooled type
Refrigerant	HFC 134a
Accessories	Cable port and power cord
1.8 Safety devices	Leak breaker, burn-out protector, temperature fuse, air circulator temperature switch, electromagnetic pump protection float switch, and refrigerator overload relay, overheat protector
1.9 Dimensions	
External dimensions	W65 x H109 x D80.5 cm (excluding partial projections) 25.6 x 42.9 x 2.54 (inch)
Internal dimensions	W50 x H60 x D39 cm (excluding partial projections) 19.7 x 23.6 x 15.4 (inch)
Inside capacity	About 105ℓ
Weight	About 110 kg
1.10 Cabinet proper accessories	
Shelf	Resin coated iron wire 2 pcs.
Shelf bracket and rail	18-8 Cr-Ni stainless steel 4 for each
Drain port filter	18-8 Cr-Ni stainless steel wire mesh 1 pc.
Water supply and drain hose	Hose (ID = 9 mm) with a quick disconnect socket 1 pc.

5. Names of Parts

5.1 Cabinet Front View

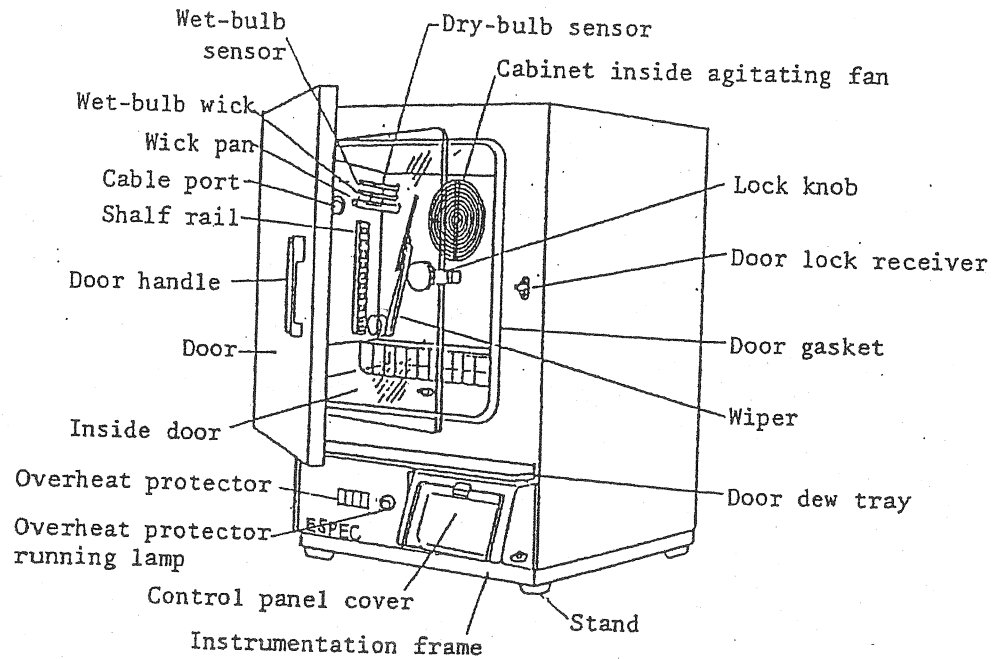


Fig. 3

5.2 Cabinet Rear View

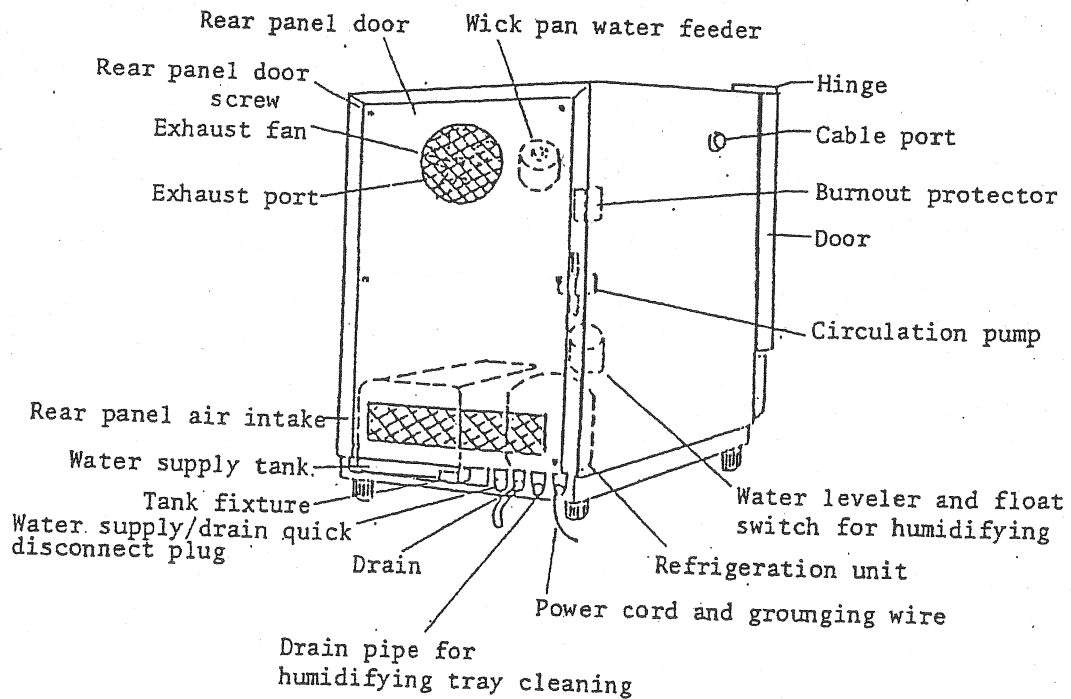


Fig. 4