

PLOT NO. 1131 HARI ENCLAVE KIRARI SLEMAN NAGAR NEW DELHI-110086 2ND PLANT H-936 RIICO CHOPANKI INDUSTRIAL AREA ALWAR RAJSTHAN-301707



RESOTECH - Climate Test Chamber

Professional Manufacturer of Test Equipment



MAKE: RESOTECH

MODEL NO. RESOTECH CMT-02607







RESONANCE AUTOMATION & MACHINE

MANUFACTURERS SUPPLERS

SPECIAL PURPOSE MACHINE, MATERIAL TESTING MACHINE, LEAKAGE TESTING MACHINE, PACKIGING TESTING MACHINE, ENVIRONMENTAL TESTCHAMBER, ASSY. LINE EQUIPMENT, SOLUTION FOR ELECTRONIC AUTOMATION AND PRODUCT DEVELOPMENT, COMPUTERIZED CONTROL MACHINE, PLC HMI SCADA VISUAL BASIC SOFTWARE DEVELOPMENT SOLUTION AND OTHER SERVICES

Characteristics

Superior stability

With their highly efficient refrigeration system and outstanding thermal insulation, ESPEC's constant climate cabinets are ideal for use in laboratories and research facilities. They offer a wide temperature/humidity range, and create a stable cabinet environment with a temperature gradient/variation in space of temperature 5°C.

Patented cross-output control system reduces required power

The cross-output control system lowers the maximum current during operation, reducing the amount of required power.

Remote monitoring and control (Ethernet connection)

You can connect the cabinet to your local area network. By doing so, you can control and monitor the cabinet from any computer on the network, using a web browser. You can program test patterns, start and stop the operation without you actually being at the site. (This operation can only be performed when the power breaker is "ON".)

Using sampling data

Sampling data (temperature set point and process value) can be copied via a USB memory device or recorded directly. It is also possible to copy program patterns between cabinets without using a PC, enabling effective use of data.

* USB memory is not included.

Editing program patterns and displaying graphs

The program patterns registered in the chamber can be edited via web browser and sampling data can be displayed as graphs. Using the PC application "Pattern Manager Lite"* (see page 3), program patterns on a PC can be edited, displayed as graphs or output as CSV data even if offline.

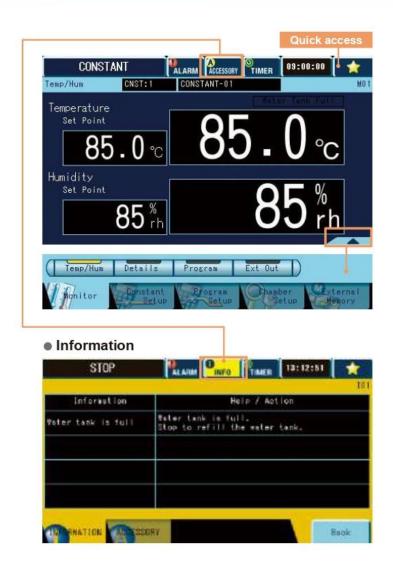


Control panel / USB memory port



Test area

Characteristics



N-Instrumentation (LHU-114/124)

Operating mode	Constant operation, program operation, remote operation, stop						
Setting range	Constant setup 3 patterns Setting range: Temp.: (Lowest attainable temp25°C) to (Highest attainable temp. +90°C), 0.1°C unit Humidity: 0 to 100%rh, 1% unit Program setup 1 pattern (12 steps) Setting range: (Lowest attainable temp25°C) to (Highest attainable temp. +90°C), 0.1°C unit Humidity: 0 to 100%rh, 1% unit Time: 0 hour and 1 min. to 9999 hours and 59 min. 1 min. unit						
Language	English, Japanese						
External memory function	Interface USB 2.0 standard compliant (A-type connector) Supported functions: • Write sampling data, Read/ Write program (application software: Patten Manager Lite) • Backtrace output • Add-ons/system updating						
Web function	Interface: Ethemet port (100base-TX) Web applications: monitoring, setting, operation, data recording, maintenance setting, email alert Browser: Windows Internet Explorer 11						

Easy-to-use instrumentation

Unlike the smartphones, the controller comes with resistive touchscreen, which allows you to operate without taking off your gloves.

Various items, including operation settings and cabinet setup, can be selected with the tabs at the bottom of the screen.

Quick access button

Star mark (\star) on the top right corner can be customized to have instant access to any pages you frequently use, to start registered test program, etc.

Information

When the water tank is full, message "Water tank full" is shown on the operation screen. There are information need to be notified to the operator, the Accessory button will switch to Information button. By pressing the button, you will find notifications such as "Water tank is full", "Check Humidity Tray" and "Check Wet Bulb Wick".

1 pattern 12 steps

The controller allows you to register 3 constant operation patterns or 1 program operation patterns with maximum of 12 steps.

Download test profiles from Test Navi

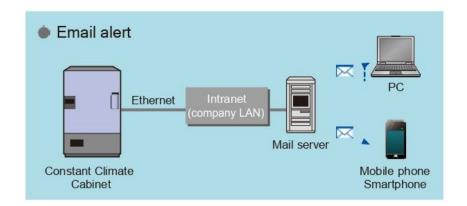
Resotech reliability test information website, "Test" compiles various test standards used for environmental testing. Download the program patterns of various test standards and copy them to your cabinet, or edit them using the Pattern Manager Lite.*

Characteristics

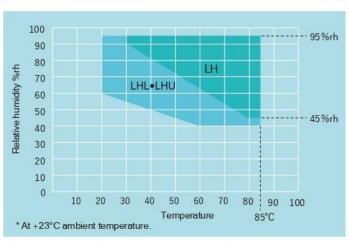
Email alert

When an alarm is triggered, an e-mail is sent to the registered PC or mobile address. A notification can also be sent at the time of test completion. Set the recipient mail address from the Maintenance setting screen.

*Requires an intranet environment capable of sending emails.



TEMPERATURE & HUMIDITY CONTROL RANGE



NOTE: The is not equipped with a dehumidifying refrigerator. Therefore, the temperature and humidity control range, especially the low humidity range shown here, may fluctuate depending on the conditions of installation and environment (such as ventilation, fluctuations in ambient temperature, and other factors).

SAFETY DEVICES

- Leakage breaker for power supply
- Glass tube fuse for control circuit short-circuit protection
- System error (error)
- Room temperature compensation burnout detection circuit
- Dry bulb temperature burnout detection circuit
- Absolute upper/lower temperature limit alarm

(with built-in temperature/ humidity controller)

- Air circulator temperature switch
- Thermal fuse
- · Overheat protector
- Wet bulb temperature burnout detection circuit (except LU)

- Refrigerator error detection
- Humidifier dry heat protector (except LU)
- Temperature upper limit deviation alarm

(with built-in temperature/ humidity controller)

 Absolute upper/lower humidity limit alarm

(with built-in temperature/ humidity controller) (except LU)

- System error (alarm)
- Water tank drought switch (except LU)
- Water tank low-level switch (except LU)

SPECIFICATIONS

Model			RT-114	RTL-114	RTU-114	RTU-124	RU-114	RTU-124	
Sy	ster	n	Balanced Temperature & Humidity Control system (BT			(BTHC system)	Balanced Temperature Control system (BTC system)		
	Temp. (& humid.) control range		(Ambient temp.+10°C/ +50°F) to +85°C/+185°F 45 to 95%rh	+5 to +85°C (+41 to +185°F) 40 to 95%rh	-20 to +85°C (-4 to +185°F) 40 to 95%rh		-20 to +85°C (-4 to +185°F)		
e*1	Temp. (& humid.) fluctuation		±1.0°C / ±5%rh				±1.0°C		
Performance*1	Temp. gradient		5°C						
	Temp. variation in space		5°C						
Per	Temp. extreme achievement time (Pull down time)		_		+20 to -20°C within 130 min.				
	Lowest attainable temp.							80°C	
	Heater		Sheathed heater with fin						
E	Humidifier		Sheathed heater				_		
ucti.	H.	System	Mechanical refrigeration system (air-cooled condenser)						
Construction	tion	Cooler — Plate fin c					r		
රි	Refrigeration unit	Refrigerator		Hermetically sealed compressor			pressor		
	Refr	Refrigerant	_	R134A		R404A	R134A	R404A	
Fittings		S	Drain port filter (×2), cable port I.D. ø25 mm on left side, power cable (with 3-pole plug), drain socket, drain hose (except LU), Ethernet port (LAN), USB memory port						
Ca	pac	ity	105 L			206 L	105 L	206 L	
Cabinet total load resistance		et total load resistance	30 kg						
Inside dimensions ^{*2} mm		dimensions*2 mm	W500 x H600 x D390			W500 H750 D590	W500 H600 D390	W500 H750 D590	
Ou	utsid	le dimensions ^{*2} mm	W680 x H1090 x D826			W680 H1240 D1026	W680 H1090 D826	W680 H1240 D1026	
W	Weight		85 kg	95 kg	100 kg	140 kg (148 kg)*3	90 kg	130 kg (138 kg)*3	
	All	lowable ambient conditions	Ambient temperature 0 to +40°C (+32 to +104				up to 75%rh		
ents	ply	100V AC 1ø 50/60Hz	15 A			11.7 A	9 A	11.7 A	
	supply	115V AC 1ø 60Hz (CE)	13 A			10 A	8 A	10 A	
rem	Power	220V AC 1ø 50/60Hz (CE)	7 A			7 A	4.1 A	7 A	
Utility requirements	- %	230V AC 1ø 50/60Hz (CE)	6.5 A			7 A	3.9 A	7 A	
	Wa	ater supply rate for midifying tray	40 to 70 ml/ h (at condition +60°C / 95%rh), 100 to 130 ml/ h (at condition +85°C / 95%rh)			40 to 70 ml/ h (at condition +60°C / 95%rh), 100 to 150 ml/ h (at condition +85°C / 95%rh)	_		
	W	ater quality	Electrical conductivity between 0.1 to 10 µS/cm			μS/cm	_		

^{*1:} The temperature cabinet conforms to IEC60068-3-5:2001, JTM K07:2007 and the humidity cabinet conforms to IEC60068-3-6:2001, JTM K09:2009 under the conditions of an ambient temperature of +23°C, rated voltage, and no specimen.

ACCESSORIES

Shelf (stainless steel wire)	2
Shelf bracket (18-8 Cr-Ni stainless steel plate) 2 se	
Cable port rubber plug 1 (I.D. ø25 mm	
Water supply/drainage hose (with plug; except LU)	1
Wet-bulb wick (24 pcs; except LU)bo	X
Socket adapter (100V, 115V AC spec.only)	1
Cartridge fuse	1
Breaker handle cover	1
Stylus pen	1
Operation manual	1

^{*2:} Excluding protrusions

^{*3:} In case of 220 V/230 V AC

OPTIONS

Portable tank

Approx. 18L (not available for LU).

Inner door

Glass door provided inside the cabinet to

observe the conditions of the specimens.

Additional cable port

Provided in addition to the standard cable port (left side).

- ø25 mm
- ø50 mm
- ø100 mm
- * Cabinet performance may be affected when equipped with a cable port.

Cable port rubber plug

Comes with the cable port.

- for ø25 mm
- for ø50 mm
- for ø100 mm



ø50mm

Shelf/Shelf bracket

Equivalent to standard accessory.



Shelf

I/O Interface

Communication ports to connect the cabinet to a PC.

- RS-485
- RS-232C
- GPIB

Communication cables

• RS-485 5 m / 10 m / 30 m • GPIB 2 m / 4 m

Recorder output terminal

This terminal outputs the temperature and humidity in the test area.



Thermocouple

Attached to specimen to measure specimen temperature.

Thermocouple type T (Copper/Copper-Nickel)

- 2 m
- 4 m



Specimen power supply control terminal

Shuts off the power to the specimen if an equipment problem occurs while testing the power supply to the specimen.

* When applying voltage to a specimen, be sure to use the specimen power supply control terminal option.



Cabinet stand

Stand designed to facilitate specimen loading/unloading from the test area (except LHU/LU-124).

Size: W750 x H700 x D800 mm



Casters

4 casters, with leveling feet

^{*}To prevent damage in the event of water leakage, a dew tray (sold separately) can be prepared.





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आरोग्यम् सुख सम्पदा

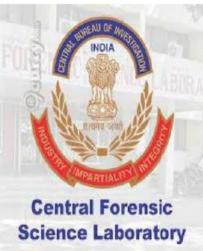






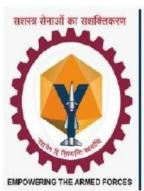














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