

## Temperature humidity chamber

Temperature humidity test chamber, also called climatic test chamber, constant temperature humidity experimental chamber, programmable damp heat alternating test chamber or constant temperature machine.

The temperature humidity test chambers are used for inspecting the equipment and testing the performance of materials in various environments and all kinds of materials have the properties of heat resistance, cold resistance, dry resistance and moisture resistance, which is applicable for electronics, electrical appliance, mobile phones, communication, meters, vehicles, plastic products, metals, food, chemicals, building materials, medical, aerospace and other products quality inspection.



### Summary

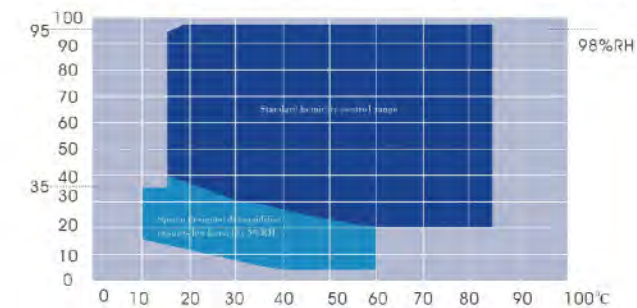
It's applicable for temperature humidity testing of computers, TV, mobile phone, monitors, printers and other electronics.

### Testing standards

|                              |                                      |
|------------------------------|--------------------------------------|
| GB-2423.1-2008(IEC60068-2-1) | Test A: Low temperature test.        |
| GB-2423.2-2008(IEC60068-2-2) | Test B: High temperature test.       |
| GB2423.3-2008(IEC60068-2-3)  | Test Ca: Constant damp heat test.    |
| GB2423.4-2008(IEC60068-2-30) | Test Db: Alternating damp heat test. |
| GJB360.8-2009(MIL-STD.202F)  | High temperature life test.          |
| GJBI50.3-2009(MIL-STD-810D)  | High temperature test.               |
| GJBI50.4-2009(MIL-STD-810D)  | Low temperature test.                |
| GJBI50.9-2009(MIL-STD-810D)  | Damp heat test.                      |

### Humidity control range

At +20 °C ambient temperature or +25 °C water temperature and no load



- Standard humidity control range
- Optional: Special designed dehumidifier ensures low humidity at 5%RH

### Optional Accessories

- Cable port  
100mm Cable Port for option
- Shelves
- Ro-type water purifier(R-80)
- Dehumidifier
- Temperature and humidity recorder
- Defrosting circuit
- Liquid nitrogen or CO2 filling mechanism





Specifications

| Model                  |   | KMH  |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
|------------------------|---|--|-------|-------|--------------------|-------|----------------------------|--------------------|-------|-------|--------------------|----------------------------|---|-------|--|--------|
|                        |   | 150R   | 225R  | 408R  | 800R               | 1000R | 150L                       |                    | 225L  | 408L  | 800L               | 1000L                      | 225S  | 408S  | 800S   | 1000S  |
| Internal Dimension(mm) | W | 600  | 700   | 700   | 1000               | 1000  | 600                        |                    | 700   | 700   | 1000               | 1000                       | 700   | 700   | 1000   | 1000   |
|                        | H | 600  | 700   | 750   | 1000               | 1000  | 600                        |                    | 700   | 750   | 1000               | 1000                       | 700   | 750   | 1000   | 1000   |
|                        | D | 460  | 480   | 800   | 800                | 1000  | 460                        |                    | 480   | 800   | 800                | 1000                       | 480   | 800   | 800  | 1000   |
| Outer Dimension(mm)    | W | 880  | 980   | 980   | 1280               | 1280  | 880                        |                    | 980   | 980   | 1280               | 1280                       | 980   | 980   | 1280   | 1280   |
|                        | H | 1730   | 1890  | 1940  | 2160               | 2160  | 1730                       |                    | 1890  | 1940  | 2160               | 2160                       | 1890  | 1940  | 2160   | 2160   |
|                        | D | 1400   | 1460  | 1740  | 1750               | 1950  | 1400                       |                    | 1460  | 1740  | 1750               | 1950                       | 1460  | 1740  | 1750   | 1950   |
| Temp. range            |   | -20°C~+150°C   |       |       |                    |       | -40°C~+150°C               |                    |       |       |                    | -70°C~+150°C               |   |       |  |        |
| Humidity range         |   | 20~98%R.H  |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Temp. fluctuation      |   | ± 0.5°C  |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Humidity fluctuation   |   | ± 2.5%R.H  |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Temp. uniformity       |   | ± 2.0°C  |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Humidity uniformity    |   | ± 3.0%R.H(>75%R.H)   |       |       | ± 5.0%R.H(≤75%R.H) |       |                            | ± 3.0%R.H(>75%R.H) |       |       | ± 5.0%R.H(≤75%R.H) |                            | ± 3.0%R.H(>75%R.H)                              |       | ± 5.0%R.H(≤75%R.H)   |        |
| Heat up time           |   | -20°C~+100°C Within 35 min   |       |       |                    |       | -40°C~+100°C Within 45 min |                    |       |       |                    | -70°C~+100°C Within 60 min |   |       |  |        |
| Cool down time         |   | +20°C~-20°C Within 45 min  |       |       |                    |       | +20°C~-40°C Within 60 min  |                    |       |       |                    | +20°C~-70°C Within 80 min  |   |       |  |        |
| System                 |   | Balanced & Humidity Control System   |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Interior material      |   | Stainless Steel Plate (SUS 304)  |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Exterior material      |   | Baked Painting Steel Or Stainless Steel (SUS304)   |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Insulation material    |   | Rigid Polyurethane Foam and Glass Fiber Wool   |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Refrigeration system   |   | Air Cooled and Water Cooled for option   |       |       |                    |       |                            |                    |       |       |                    |                            | Hermetic compressor, stage refrigeration system |       | Hermetic compressor, cascade refrigeration system (CFC free refrigerant) |        |
| Controller             |   | Touch screen controller English / Chinese Operation mode : FIX / program<br>Hermetic Compressor, Cascade Refrigeration CFC free refrigerant  |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Safety devices         |   | No fuse breaker, over-pressure, over-heat and over-current protectors for compressor<br>over-temp. protector, over-load protector of fan, dry heat protector, short of water protector |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Standard accessories   |   | Glass window x 1pc, 50mm entry ports x 2pcs, sample trays x 2pcs, chamber lamp x 1pc, power cable x 2 meters   |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Ambient temp           |   | +5°C~+35°C   |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |
| Equipment power        |   | 5KW  | 5.5KW | 5.5KW | 7.2KW              | 7.2KW | 6KW                        |                    | 7.2KW | 7.2KW | 8.5KW              | 8.5KW                      | 8KW   | 8KW   | 18.5KW   | 18.5KW |
| Weight                 |   | 330Kg  | 350Kg | 450Kg | 840Kg              | 870Kg | 350Kg                      |                    | 380Kg | 480Kg | 850Kg              | 880Kg                      | 450Kg   | 500Kg | 990Kg  | 920Kg  |
| Power                  |   | 3 Phase 4 Wires+Ground Wires   |       |       |                    |       |                            |                    |       |       |                    |                            |   |       |  |        |