# Ultra Low Humidity Ultra Low Humidity Type, Antistatic Type

## (Lower than 1~3% RH)

- Holding low humidity(Less than 5% RH) in accordance with IC package standard, New IPC/JEDEC J-STD-033.
- Holding circuit board in low humidity.
- Holding liquid crystal oscillator in low humidity.
- Improving yield rate in implementation process. No baking is required. (Baking is possible for Dry Furnace DFU type)
- Quality control
- Cost saving through $N^2$ gas replacement and combination of $N^2$ with other substances.

DRY-CABI®

| Specifications | QA Type Ultra Low Humidity/Antistatic Type |
|---|---|
| Main body | Steel made, Antistatic + Silver metallic paint |
| Shelf board | Steel made, Antistatic + Silver metallic paint |
| Door | Antistatic electricity glass board |
| Hygrometer/Thermometer | High performance digital hygrometer/Thermometer (HN-CHN-DC) |
| Caster (Option) | Static charge prevention, Dust prevention type |

Convenient for management of storing data as well as submission of humidity proofreading certificate (QA type).

**High performance Digital Hygrometer (Thermometer) with data logging function**

HN-CHN-DC

**Equipped with built-in logging function high performance hygrometer**

**Humidity**
Sensor: High polymer capacity type
Measuring range: 0~100% RH
Accuracy rating:
± 2~3% RH (at 0~90% RH & 25 C)
Temperature coefficient:
± 0.1% RH/ C(5~80 C)
**Temperature**
Sensor: Semiconductor type
Measuring range:
-40~± 80 C (±0.5 C)
With AC adopter

A mode manages measured data in real time and the other mode utilizes and analyzes logged data are available and graph indication, listed data indication are easy to execute. Data transportation function to a commercial spread sheet is also available.

**Option**

**Stored data of graph indication and table indication is available. Data collecting software (With communication cable)**

- Attachment of $N^2$ gas socket
- Clean box
- Each alarm/ Monitoring logging device
- Alarm:
  When door opens and there is high humidity (Adjustable by humidity controller), buzzer sounds. (Volume is adjustable./ OFF, 50~68db)

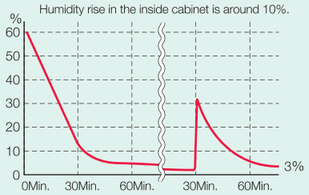
Inner cabinet depth:390mm
**TDC-157-QA**

Inner cabinet depth:390mm
**TDC-297-QA**

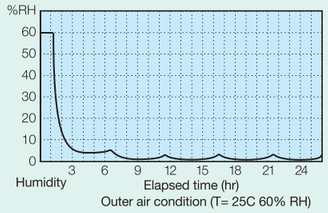
Inner cabinet depth 650mm
/ Outer cabinet depth 748mm
**TDC-507-QA**

**TDC-157-QA Inside humidity measuring example**

Dehumidified, 1 min. door opening data Humidity (%RH)
Humidity rise in the inside cabinet is around 10%.




**TDC-1307-QA (1% RH) Inside humidity measuring example**




**TDC-297-QA Inside humidity measuring example**

## Specifications

Attention: In accordance with product improvement, the specifications may be altered without notice.
Dimensions are indicated W (Width) x D (Depth) x H (Height) in mm respectively.

| | TDC-157-QA | TDC-297-QA | TDC-507-QA |
|---|---|---|---|
| Dehumidifying & humidity | Control Drying unit, Dial self-regulation type (Relative Humidity, Accuracy ± 7% RH) | | |
| Outer dimensions (mm) | 440×491×980 | 880×491×980 | 880×748×980 |
| Inner dimensions (mm) | 438×390×850 | 878×390×850 | 878×650×850 |
| Effective inner capacity | 145L | 291L | 485L |
| Material & Finishing | Steel, Melamine bake coating, Silver metallic in color, Antistatic paint | | |
| Door | Steel, Antistatic glass, Magnet rubber seal, Digital hygrometer | | |
| Power consumption (AC100V) | AC100V (50/60Hz) | | |
| | 18W (MAX450W) | 18W (MAX450W) | 27W (MAX900W) |
| Weight (Kg) | 28 | 58 | 75 |
| Accessories | Steel, Melamine bake coating, Silver metallic in color, 3 antistatic paint shelf boards | | |
| | Lock, 2 Keys, Earth wire | | |

*Inside dimensions are announced upon request.
*No functions such as dehumidifying or temperature controlling are available.
*Hygrometer monitoring range & accuracy: At 0~100% RH, ± 2~3% RH and At 15~40% RH or 70~90% RH, ± 5~7% RH.
*Power consumption Max shown is only at start up.
***AC200~240V is also available.**

We recommend the use of fall down prevention earthquake proofing appliance to avoid fall down and damage to drying cabinets.
Refer to the last page of this catalog.

Special size is also available upon request, including all stain less steel made.





- With large sized high performance drying unit, we realized rapid dehumidifying and highly reliable, stable low humidity safekeeping.
- Noiseless operation without vibration
- QA models come with high polymer capacitance type digital hygrometer. (Collection software is optional.) QS models come with analog hygrometer (10% RH indication)
- All comes with silver metallic paint. Effective on static electricity measures and dust prevention.
- Large sized type is 2 layer accumulation style ( Accumulate and fix them with bolts only)
  Easy to assemble. ( 1310/ 1410 series) Delivery after assembly is also available.
- On the right and left 2 door type, no center pillar design provides wider storage space for lengthy objects.
- Central pillar type and other special order are also available.
- Magnet rubber door provides good air tightness. Antistatic glass window (QA type) with key lock.
- Humidity controller keeps a stable low humidity.
- With operating lamp on drying unit, it is easy to check the status of operation.
- Load-resistant of shelves is 100kg/shelf. OK to change the position and removable.
  Stainless steel shelf board is also available.
- Very economical. Maintenance fee is only on electricity.
- Adopting antistatic and dust prevention casters (QA type)
- With 1MΩ earth wire
- Another outlet is placed inside the cabinet.
- It comes with wrist strap keeping the human body at 0 unit electric potential (Except QS).

- Built-in type and unit type are available for King sized cabinet. Unit type is easy to carry into buildings.
- All are painted in silver metallic. Effective to antistatic electricity and dust prevention.
- Complete separation of the upper and lower layer is available.

**TDC-907-QA**

2 layer accumulation 6 door type

**TDC-1307-QA**

2 layer accumulation 4 door type

**TDC-1407-QA**

## New Product

Able to warm up

### Drying Furnace (Special order product)

**Warming up (Ambient temp. ~Max 50C) and ultra low humidity control**

Drying Furnace of Temperature
+
Ultra low humidity

**TDC-507-DFU**
(Outer dimension is the same as TDC-507-QA.)

**TDC-1307-DFU**
(Outer dimension is the same as TDC-1307-QA.)

**TDC-1407-DFU**
(Outer dimension is the same as TDC-1407-QA.)

(Separate quotation)

### High quality Ultra Dehumidifier (Patented)

**Heat ventilation type with rapid dehumidifying function.**

While special desiccant absorbs inside humidity, IC timer, heating body and memory alloy help the desiccant repeatedly emit vaporized humidity outside until suitable condition is obtained.

The Dry-unit operates in 382 minutes 1 cycle, repeats this, and carries out rapid dehumidification of the humidity inside.

## Specifications

Attention: In accordance with product improvement, the specifications may be altered without notice.
Dimensions are indicated W (Width) x D (Depth) x H (Height) in mm respectively.

| | TDC-907-QA | TDC-1307-QA | TDC-1407-QA |
|---|---|---|---|
| Dehumidifying & humidity | Control Drying unit, Dial self-regulation type (Relative Humidity, Accuracy ± 5~7% RH) | | |
| Outer dimensions (mm) | 1,200×748×1,310 | 1,200×748×1,850 | |
| Inner dimensions (mm) | 1,198×650×1,075 | 1,198×650×1,620 | |
| Effective inner capacity | 837L | 1,261L | |
| Material & Finishing | Steel, Melamine bake coating, Silver metallic in color, Antistatic paint | | |
| Door | Steel, Antistatic glass, Magnet rubber seal, Digital hygrometer | | |
| Power consumption (AC100V) | AC100V (50/60Hz) | | |
| | 27W (MAX900W) | 54W (MAX900W) | |
| Weight (Kg) | 98 | 150/145 | |
| Accessories | Steel, Melamine bake coating, Silver metallic in color, 5 antistatic paint shelf boards (3 for 438/918 type) | | |
| | Lock, 2 Keys, Earth wire, 4 casters (2 with stopper), | | |

*Inside dimensions are announced upon request.
*No functions such as dehumidifying or temperature controlling are available.
*Hygrometer monitoring range & accuracy: At 0~100% RH, ± 2~3% RH and At 15~40% RH or 70~90% RH, ± 5~7% RH.
*Power consumption Max shown is only at start up. ***AC200~240V is also available.**