

# NetDry

**SYMOR INSTRUMENT EQUIPMENT CO.,LTD**

*Temperature & Humidity Solution Provider*

## **Dry Cabinets for Moisture Sensitive Devices**

- \*Middle humidity series 20%–60%RH**
- \*Low humidity series 10%–20%RH**
- \*Ultra–low humidity series 1%–10%RH**
- \*Bottom low humidity series 1%–5%RH**
- \*Lowest humidity series 1%–3%RH**
- \*Nitrogen dry cabinet series 1%–60%RH**

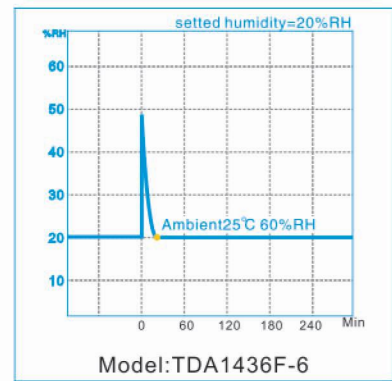


## Middle Humidity Series 20%–60%RH(Adjustable)

**Application: camera, lenses, photographs, optical, negative, video tapes, slide, films, oil painting, stamps, drawing, microphones, CD, DVD, detector, charger, precision bearing, precious instruments, etc**



<Open door 30s and closed>



Temperature display accuracy:  $\pm 1.0^{\circ}\text{C}$



Humidity display accuracy:  $\pm 3\%RH$

Powerful desiccant (free exchange) inside cabinet absorb and exhaust moisture automatically, together with advanced IC timer, memory alloy and heating module, the whole cycle repeat automatically, so the inside humidity lowered, the humidity is controlled by LED controller.

## Specification

Features:

- Equipped with powerful & fast dry unit
- Reinforced steel body with ESD paint (Black color)
- US imported Honeywell humidity sensor
- With 1MΩ earth terminal

Model ESD safe	Capacity	Internal Size (W×D×H, mm)	External Size (W×D×H, mm)	Shelves	GW (KG)	Average Power (W)	Max. Loading /Shelf (KG)
TDA98F	98L	446*372*598	448*400*688	1	31	13	50
TDA160F	160L	446*422*848	448*450*1010	3	43	18	50
TDA240F	240L	596*372*1148	598*400*1310	3	57	18	50
TDA320F	320L	898*422*848	900*450*1010	3	70	20	80
TDA435F	435L	898*572*848	900*600*1010	3	82	20	80
TDA540F	540L	596*682*1298	598*710*1465	3	95	20	80
TDA718F	718L	596*682*1723	598*710*1910	5	105	20	80
TDA870F	870L	898*572*1698	900*600*1890	5	130	40	100
TDA1436F-4	1436L	1198*682*1723	1200*710*1910	5	189	40	100
TDA1436F-6	1436L	1198*682*1723	1200*710*1910	5	189	40	100

Remark: The whole cabinet is made by reinforced steel. 2. White color is without ESD function.  
Options: \*Data logger with RS232 port \*Door open alarm \*Over humidity alarm



## Low Humidity Series 10%–20%RH(Adjustable)

**China exclusive supplier that pass ROHS to avoid pollution on electronics!**



TDB98F   TDB160F   TDB240F   TDB320F   TDB435F   TDB540F   TDB718F   TDB870F



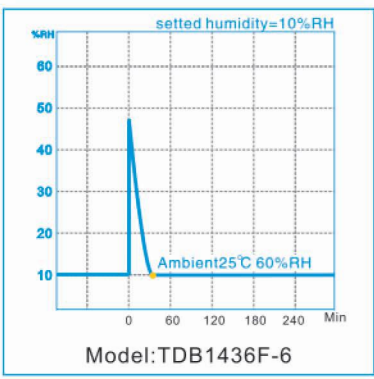
TDB1436F-4   TDB1436F-6

Temperature display accuracy:  $\pm 1.0^{\circ}\text{C}$

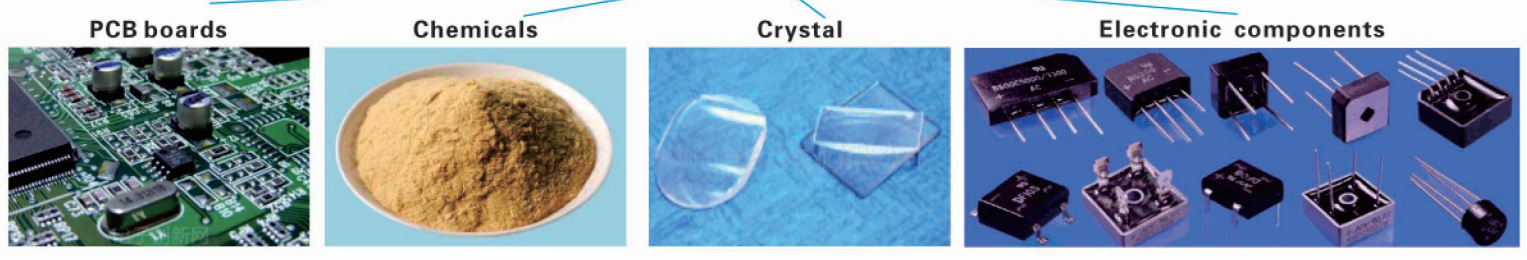


Humidity display accuracy:  $\pm 3\%RH$

<Open door 30s and closed>



### Application



- Features:**
- Equipped with powerful & fast dry unit
  - Reinforced steel body with ESD paint(Black color)
  - US imported Honeywell humidity sensor
  - With 1MΩ earth terminal

## Specification

**Remark:**

- The whole cabinet is made by reinforced steel
- White color is without ESD function.

**Options:**

- \*Data logger with RS232 port
- \*Door open alarm
- \*Over humidity alarm

Model	Capacity	Internal Size (W×D×H,mm)	External Size (W×D×H,mm)	Shelves	GW (KG)	Average Power(W)	Max.Loading /Shelf(KG)
TDB98F	98L	446*372*598	448*400*688	1	31	18	50
TDB160F	160L	446*422*848	448*450*1010	3	43	18	50
TDB240F	240L	596*372*1148	598*400*1310	3	57	20	50
TDB320F	320L	898*422*848	900*450*1010	3	70	20	80
TDB435F	435L	898*572*848	900*600*1010	3	82	20	80
TDB540F	540L	596*682*1298	598*710*1465	3	95	40	80
TDB718F	718L	596*682*1723	598*710*1910	5	105	40	80
TDB870F	870L	898*572*1698	900*600*1890	5	130	40	100
TDB1436F-4	1436L	1198*682*1723	1200*710*1910	5	189	80	100
TDB1436F-6	1436L	1198*682*1723	1200*710*1910	5	189	80	100

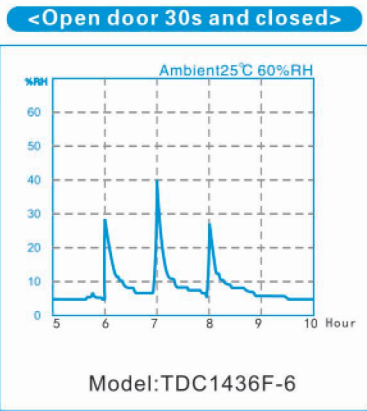
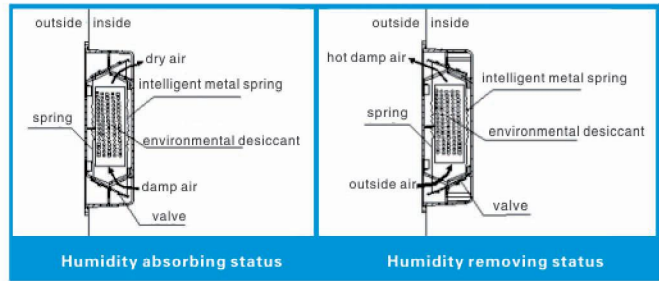


## Ultra-low Humidity Series 1%-10%RH(Automatic)

**Newest Patent: Open door 30s and closed, the humidity can achieve <10%RH within 15min!**



### Working Principle

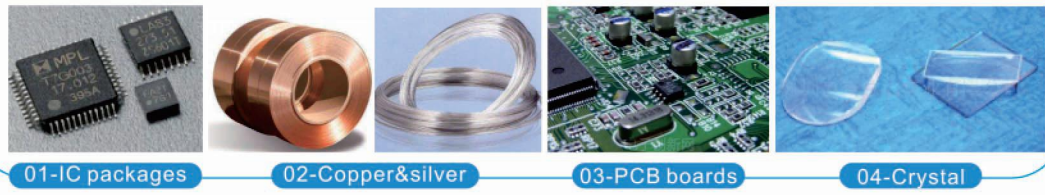


### Application

Temperature display accuracy: +/-1.0°C



Humidity display accuracy: +/-3%RH



- Features:**
- Equipped with powerful & fast dry unit
  - Reinforced steel body with ESD paint(Black color)
  - US imported Honeywell humidity sensor
  - With 1MΩ earth terminal

## Specification

Model ESD safe	Capacity	Internal Size (W×D×H,mm)	External Size (W×D×H,mm)	Shelves	GW (KG)	Average Power(W)	Max.Loading /Shelf(KG)
TDC98F	98L	446*372*598	448*400*688	1	31	18	50
TDC160F	160L	446*422*848	448*450*1010	3	43	20	50
TDC240F	240L	596*372*1148	598*400*1310	3	57	20	50
TDC320F	320L	898*422*848	900*450*1010	3	70	40	80
TDC435F	435L	898*572*848	900*600*1010	3	82	40	80
TDC540F	540L	596*682*1298	598*710*1465	3	95	60	80
TDC718F	718L	596*682*1723	598*710*1910	5	105	60	80
TDC870F	870L	898*572*1698	900*600*1890	5	130	80	100
TDC1436F-4	1436L	1198*682*1723	1200*710*1910	5	189	120	100
TDC1436F-6	1436L	1198*682*1723	1200*710*1910	5	189	120	100

**Remark:**

- The whole cabinet is made by reinforced steel
- White color is without ESD function.

**Options:**

- \*Data logger with RS232 port
- \*Door open alarm
- \*Over humidity alarm

## Bottom Low Humidity Series 1%–5%RH(Automatic)

**Newest Patent: Open door 30s and closed, the humidity can achieve <5%RH within 30 min!**



### Application



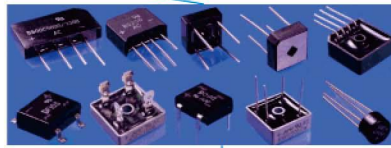
01-IC packages



02-Silicon wafer

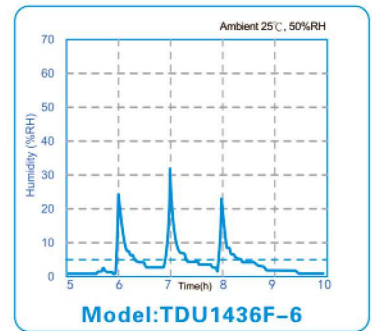


03-PCB boards



04-Electronic components

<Open door 30s and closed>



## Workshop Details



## Specification

Model ESD safe	Capacity	Internal Size (W×D×H,mm)	External Size (W×D×H,mm)	Shelves	GW (KG)	Average Power(W)	Max.Loading /Shelf(KG)
TDU320F	320L	898*422*848	900*450*1010	3	70	40	80
TDU435F	435L	898*572*848	900*600*1010	3	82	40	80
TDU540F	540L	596*682*1298	598*710*1465	3	95	60	80
TDU718F	718L	596*682*1723	598*710*1910	5	105	60	80
TDU870F	870L	898*572*1698	900*600*1890	5	130	80	100
TDU1436F-4	1436L	1198*682*1723	1200*710*1910	5	189	120	100
TDU1436F-6	1436L	1198*682*1723	1200*710*1910	5	189	120	100

### Remark:

- 1.The whole cabinet is made by reinforced steel
- 2.White color is without ESD function.

### Options:

- \*Data logger with RS232 port
- \*Door open alarm
- \*Over humidity alarm



## Lowest Humidity Series 1%-3%RH(Automatic)

1%-3%RH series are equipped with super powerful dry unit to reliably maintain humidity to be <3%RH, which meets IPC/JEDEC J-STD-033C standard, the optimal choice for Integrated Circuits, PCB boards, Optical Fiber, Medicine and the like.

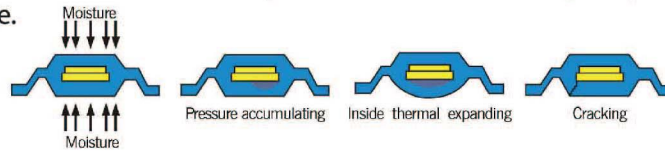
Open door 30s and closed, the humidity can reach <3%RH within 30 min!



### Features:

- Equipped with super powerful dry unit
- Reinforced steel body with ESD paint(Black color)
- US imported Honeywell humidity sensor
- With 1M  $\Omega$  earth terminal

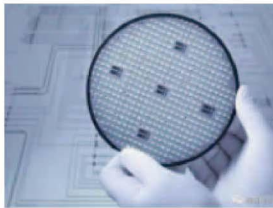
In SMT manufacturing process, moisture is absolutely a killer for PCB/IC, during the heating process, the PCB/IC is likely to crack and thus cause non-effective welding because of the humidity, these MSD will be damaged by moisture immersion during production line and also inappropriate storage.



### Application:



IC Package



Silicon Wafer

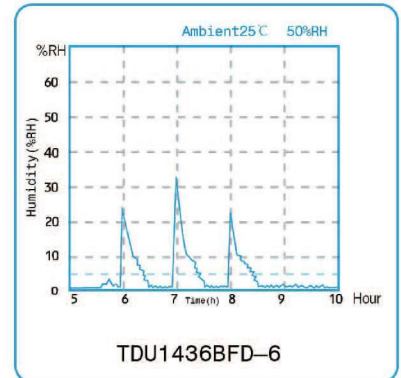


PCB Board



Ceramics

<Open door 30s and closed>



## Specification

Model ESD safe	Capacity	Internal Size (WxDxH,mm)	External Size (WxDxH,mm)	Shelves	GW (KG)	Average Power(W)	Max. Loading /Shelf(KG)
TDU320BDF	320L	898*422*848	900*450*1010	3	70	40	80
TDU435BDF	435L	898*572*848	900*600*1010	3	82	40	80
TDU540BDF	540L	596*682*1298	598*710*1465	3	95	60	80
TDU718BDF	718L	596*682*1723	598*710*1910	5	105	60	80
TDU870BDF	870L	898*572*1698	900*600*1890	5	130	80	100
TDU1436BDF-4	1436L	1198*682*1723	1200*710*1910	5	189	120	100
TDU1436BDF-6	1436L	1198*682*1723	1200*710*1910	5	189	120	100

Remark:1.The whole cabinet is made by reinforced steel 2.White color is without ESD function.

Options:\*Data logger with RS232 port \*Door open alarm \*Over humidity alarm



## Nitrogen Dry Cabinet Series 1%–60%RH(Adjustable)

**It will automatically cut off nitrogen supply once the cabinet reaches required humidity, which prevent humidity and oxidation, widely applied on LED, Semiconductor, Electronics Industry!**

Temperature display accuracy:  $\pm 1.0^{\circ}\text{C}$



Humidity display accuracy:  $\pm 3\%RH$



TDN98F

TDN160F

TDN240F

TDN320F

TDN435F

TDN540F

TDN718F

TDN870F

TDN1436F-4

TDN1436F-6

### Advantages



-LED humidity controller



-Zinc alloy handle



-ESD castors with brakes



-Reduce 70% N2 by N2 saving device

### Specification

Model ESD safe	Capacity	Internal Size (W×D×H,mm)	External Size (W×D×H,mm)	Shelves	GW (KG)	Average Power(W)	Max.Loading /Shelf(KG)
TDN98F	98L	446*372*598	448*400*688	1	31	8	50
TDN160F	160L	446*422*848	448*450*1010	3	43	8	50
TDN240F	240L	596*372*1148	598*400*1310	3	57	8	50
TDN320F	320L	898*422*848	900*450*1010	3	70	8	80
TDN435F	435L	898*572*848	900*600*1010	3	82	8	80
TDN540F	540L	596*682*1298	598*710*1465	3	95	8	80
TDN718F	718L	596*682*1723	598*710*1910	5	105	8	80
TDN870F	870L	898*572*1698	900*600*1890	5	130	8	100
TDN1436F-4	1436L	1198*682*1723	1200*710*1910	5	189	8	100
TDN1436F-6	1436L	1198*682*1723	1200*710*1910	5	189	8	100

Remark: 1. The whole cabinet is made by reinforced steel;

2. White color is without ESD function.

Options: \*Data logger with RS232 port \*Door open alarm \*Over humidity alarm

### Customized Dry Cabinet



Stainless steel sus#304 cabinet



Special cabinet with drawers



Independent humidity control cabinet



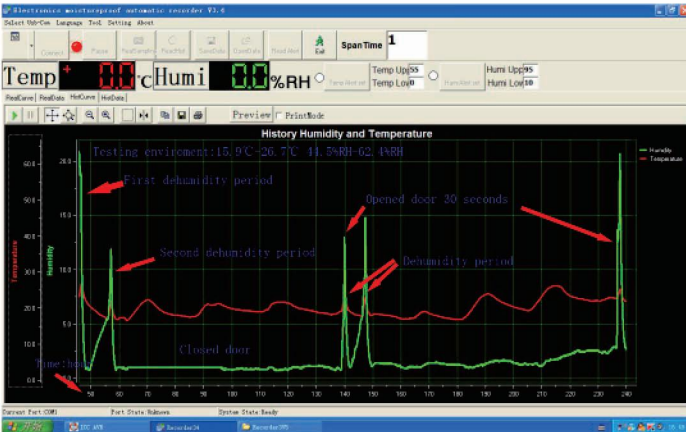
## Accessories

### Door open & Over humidity buzzer alarm and flash alarm (Optional)



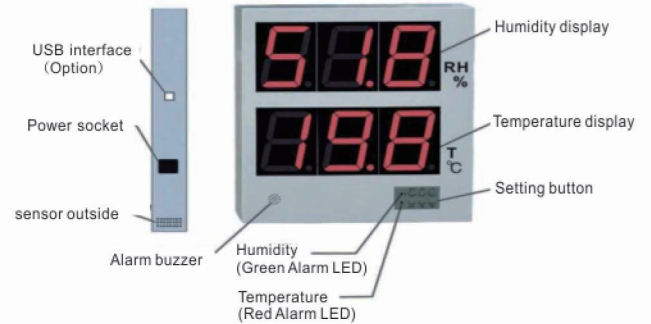
### Data Logger (Optional)

It suits all Symor manufactured dry cabinet, nitrogen dry cabinet, the software can automatically store data, read temperature and humidity curve on PC through RS232 port for max. 800 hours, efficiently replace manual recording method.



### Hygrometer(Optional)

Manage the temperature and humidity in production line!  
Normally hygrometer is installed in precise control environment, such as semiconductor and electronic production line, medicine R&D workshop, electronic components storage room, etc.



Model	TD-18D
Temperature range	-9.9°C - +70°C, ±1°C
Humidity range	0.1%RH-99.9%RH, ±3%RH
Size(mm)	340*360*55
Voltage	AC85-240V,50/60HZ
Visibility distance	30m
Power consumption	5W/h

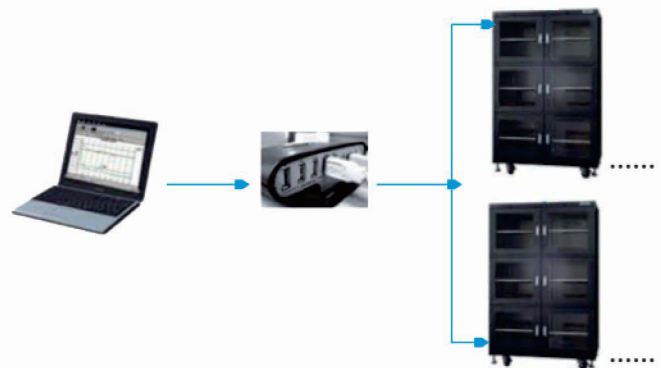
Remark: Equipped with over humidity, over temperature alarm.

### Network Technique(Optional)

All Symor manufactured dry cabinets, nitrogen dry cabinets can be networked.

\*Network up to 250 units dry cabinets through one PC with our drive software, at present the quantity reach Max. 125 units in our past successful case, it can monitor and read data in real time, the data can transfer to curve on PC

- \*Printing function
- \*Support Chinese-English languages





# TEMPERATURE & HUMIDITY SOLUTION PROVIDER

## *NetDry*



Best humidity solution provider for dehumidifying, storage and monitoring your MSD!

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EMC  
tested

