

**Care Free  
Drying Cabinet**

# DRY-CABI®

FULLY AUTOMATIC HUMIDITY CONTROLLED CABINET

MIDDLE(30~50%RH) ~ ULTRA-LOW(0~50%RH) HUMIDITY

MADE IN JAPAN & TAIWAN

Produced with Japanese standard



- Himeji Castle(Himeji City)
- Five Storied Pagoda, To-ji Temple(Kyoto City)
- Mt.Fuji
- Kinkaku-ji Temple(Kyoto City)
- Tokyo Sky Tree(Tokyo)...Completion in Spring of 2012
- Yomei-mon Gate(Nikko City)
- Shinkansen Nozomi N700

## Ultra Ecology Design

With new high performance, energy-saving drying unit, consume a very little electricity.

**The first in the world**

Epoch-making photocatalyst works on mold prevention, antibacterial, deodorization and purification. Energy-saving type

Easy-to-see dual digital hygrometer. With AC connection, no batteries needed.



Compact, high performance drying unit (Use of shape-memory alloy)  
Extended inside capacity (Reduced back projecting)

With top located outlet, easy to charge batteries of cameras and mobile phones.

Covered with soft and durable sheet.  
Easy to put in and out.

**DRY-CABI Middle Humidity series 30~50%RH**

Lenses, Cameras, Digital Cameras, Binoculars, Optical, Photographic & Media equipment  
Telescopes, Microscopes, Microphones.  
Films, Video tapes, SD, USB Memory, CD, DVD etc.

Paper craft, Fine arts, Industrial art objects, Printed matter, Swords, etc.

Medical equipment, Fine arts, Medicine, Test parts, Measuring tools.

Chemical & Industrial products, Plastic, Medicine, Powdered materials, Metal parts etc.

Agricultural products, Foods, Dried foods.

Leading "Dry and Wet" cabinet manufacture in Japan, Tolihan Corporation introduces unique electronic dehumidification system, employing the latest technology to provide the most versatile and accurate protection systems.

## MAIN DELIVERY

DRY-CABI is used habitually by photographers more than 500,000 peoples.

FUJI FILM Gr.	NIPPON STEEL
FUJITSU Gr.	SHIMA SEIKI
HITACHI Gr.	SHISEIDO
MITSUBISHI Gr.	SUNTORY
NEC Gr.	TAKEDA MEDICAL
PANASONIC Gr.	YAMAHA
PIONEER	IMPERIAL HOUSEHOLD
SANYO Gr.	AGENCY
SHARP Gr.	JAEA
SONY Gr.	JAXA
TOSHIBA Gr.	MINISTRY OF DEFENCE
BRIDGESTONE	NAOJ
HONDA Gr.	NATIONAL
ISUZU	LABORATORIES
JR	NATIONAL MUSEUMS
MAZDA	NIFS
MITSUBISHI Gr.	POLICE I. S. L.
NISSAN Gr.	PREFECTURAL
SUZUKI	LABORATORIES
TOYOTA Gr.	SHRINE BUDDIST
CANON Gr.	TEMPLES
CASIO	UNIVERSITY
CITIZEN	LABORATORIES
JAPAN IBM	AMD
KONICA MINOLTA	ELPIDA
NIKON	HYNIX
OLYMPUS	INTEL
OMRON	KYOCERA
RICOH	LG
SEIKO	MOTOROLA
SEIKO EPSON	MURATA
AMADA	ROHM
ASAHI BEER	SAMSUNG
ASAHI GLASS	TDK
KIRIN BEER	TEXAS INSTRUMENTS

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Since 1983

**TOLIHAN CORP.**  
TOKYO JAPAN

Top Brand of JAPAN  
Fully Automatic Humidity  
Controlled Cabinet

**DRY-CABI®**

## GI SPU Type 1%RH Ultra High speed Dehumidifier

For frequency of the door opening per 20~30 minutes

**APPLICATIONS** Many door openings



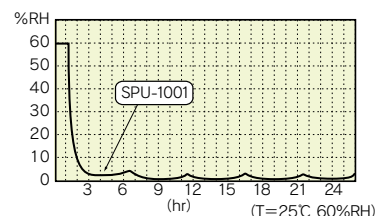
### FEATURE

- Equipped with Powerful & Rapid dry unit
- Digital hygrometer with large legible panel
- With 1MΩ earth terminal
- Shelf bears 100Kg/per
- No central pillar offers maximum space
- Urethane caster with stopper



**Measurement Range**  
1~90%RH  
Accuracy: ±3%RH  
(Battery type)

**SPU-1001(1%RH)** Measurement of inside humidity



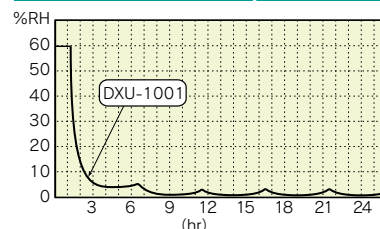
## GII DXU Type 1%RH High speed Dehumidifier

For frequency of the door opening per 30~45 minutes

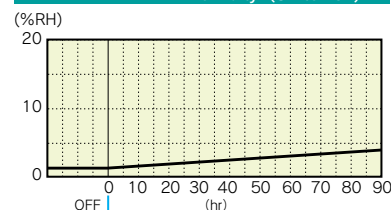
**APPLICATIONS** popular use



**DXU-1001(1%RH)** Measurement of inside humidity



**DXU-1001(1%RH)** Measurement of inside humidity (Switch off)



### SPECIFICATIONS

※Note: Specifications are subject to change without notice.

Model	SPU-1001	SPU-1002	DXU-501	DXU-1001	DXU-1002
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dial preset, automatic humidity control system				
Dimensions (W×D×H) Outer size : (mm) Inner size : (mm)	1,200×700×1,850 1,150×600×1,700		600×700×1,850 550×600×1,700	1,200×700×1,850 1,150×600×1,700	
Effective Capacity Main space : (Liter)	1,200 ℓ US-6000×2		600 ℓ US-5000	1,200 ℓ US-5000×2	
Material & Finishing	Cabinet=High quality steel plate hard coated w/melamine resin painted Door=Glass w/Magnet rubber seal,hygrometer.				
Power source	AC 100~115V or 220V~240V (50/60Hz)				
Power consumption (W/H) (AC100V)	96W/H (MAX880W)		47W/H (MAX370W)	94W/H (MAX740W)	
Weight (Kg.)	200Kg	190Kg	110Kg	200Kg	180Kg
(Accessories)	Shelf 5, Key 2, Digital Hygrometer 1, Caster w/stopper, Earth terminal				

●Power consumption at AC 220V will be 1/2 W/H of AC 115V~110V

**Remarks** \* "DRY-CABI" has no function of heating, cooling or humidifying.



## McDry prevents micro cracking of IC package at time of reflow of electronic devices.

### G III MCU Type 3%RH

For frequency of the door opening per 60~120minuts

**APPLICATIONS** Many door openings

### Dehumidification principle

- The storage is maintained to the super low humidity by a powerful dehumidification device equipped with latest shape-memory alloy, IC timer, humidity controller, special drying materials, etc.
- An IC package and the electronic parts kept in this completely become the dry state, and there becomes no trouble by the moisture.
- The desiccating agent in the dehumidification device is played automatically and repeats moisture absorption action permanently. The humidity is equalized by a forced convection, and storage of always keeps the most suitable state.



(D=500mm)

**MCU-201**



(D=600mm)

**MCU-301**



(D=600mm)

**MCU-401**



(D=430mm)

**MCU-340**



(D=730mm)

**MCU-580**



(D=600mm)

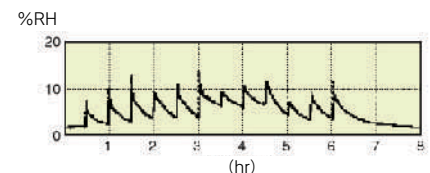
**MC-1001**



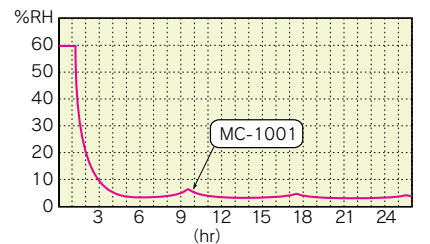
(D=600mm)

**MC-1002**

**DXU-1001 (1%RH)** Measurement of inside humidity



**MC-1001 (3%RH)** Measurement of inside humidity



- Option : Installation of N<sub>2</sub> Gas socket

## SPECIFICATIONS

※Note: Specifications are subject to change without notice.

Model	MCU-201	MCU-301	MCU-401	MCU-340	MCU-580	MC-1001	MC-1002
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dial preset, automatic humidity control system						
Dimensions (W×D×H) Outer size : (mm) Inner size : (mm)	500×570×630 480×500×540	500×630×1,200 480×600×1,080	500×630×1,530 480×600×1,410	880×500×980 830×430×790	880×800×980 830×730×790	1,200×700×1,850 1,150×600×1,700	
Effective Capacity Main space : (Liter)	135 ℓ	300 ℓ	420 ℓ	300 ℓ	520 ℓ	1,200 ℓ	
Material & finishing	Cabinet=High quality steel plate hard coated w/melamine resin painted						
Power source	AC 100~115V or 220V~240V (50/60Hz)						
Power consumption (W/H) (AC100V)	21W/H(MAX140W)	33W/H(MAX250W)			47W/H(MAX370W)		
Weight (Kg.)	30Kg	60Kg	70Kg	58Kg	80Kg	190Kg	180Kg
Shelf	4	8		3		5	
Caster	—	—		—		Caster w/stopper	
(Accessories)	Key 2, Digital Hygrometer 1, Earth terminal 1						

● Power consumption at AC 220V will be 1/2 W/H of AC 115V~110V

Remarks \* "DRY-CABI" has no function of heating, cooling or humidifying.

# High quality, Authentic Professional Series Recommended to Genuine Collectors

## ● High quality Wooden Drying Cabinets

**Noble, High grade and Superior**  
Nice arrangement of your valuable collection

- High-quality melamine smoothly planed board
- Nice mahogany design with melamine smoothly planed board in white color
- Storing goods outstand with all glass shelves (Load-resistant: 30kg/Shelf)



**New Product**

**Melamine mahogany design**

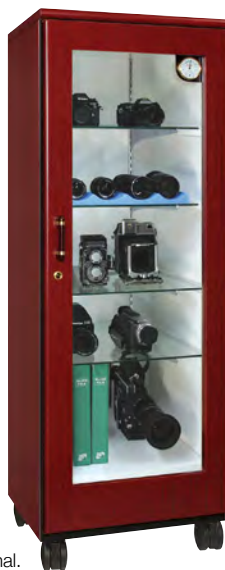
**Easy storing of large sized lenses**

### WDC-600

Outside: 1,080 x 476 (With handle) x 1,460mm  
Inside: 1,040 x 390 x 1,240mm (542L)  
High-quality melamine smoothly planed board  
(Outer: Mahogany design, Inner: White)  
100~115V (50/60Hz) 5.4W/H  
220~240V (50/60Hz) 2.7W/H  
Weight: 80 kg  
Accessories: 4 glass shelves, 2 keys,  
1 Hygrometer with thermometer  
4 casters (2 with stopper)

**Production on order** Capacity: **90~100** SLRs  
Separate estimate

\*The lens mat in each cabinet is optional.



### WDC-300

Outside: 540 x 476 (With handle) x 1,460mm  
Inside: 500 x 390 x 1,240mm (260L)  
High-quality melamine smoothly planed board  
(Outer: Mahogany design, Inner: White)  
100~115V (50/60Hz) 3.6W/H  
220~240V (50/60Hz) 1.8W/H  
Weight: 50 kg  
Accessories: 4 glass shelves, 2 keys,  
1 Hygrometer with thermometer  
4 casters (2 with stopper)

**Production on order** Capacity: **45~50** SLRs  
Separate estimate

## Professional and Industrial Series

(1 year guarantee)

### TDC-DDX Type for Middle Humidity (30~50%RH)

**With the new type of drying unit, reduction in cost & 12 to 50% of power up** (Compared to our company's products)

Recommendable for storing cameras, lenses, films, tapes, semiconductors, electronic parts, precision instruments, microscopes, medicine, antique, etc.

- Space-saving: No protuberance inside enables maximum storage.
- Built-in desiccant works semi-permanently (Exchange free).
- No center pillar design provides wider storage space for lengthy objects.
- Easy-to-use wide door with magnet rubber seal and lock
- Humidity controller (Preset type) provides suitable humidity and prevents objects from being over-dried (Accuracy: +/- 5~7% RH).
- Noiseless operation without vibration
- Dual digital hygrometer allows at-a-glance read-out of both inner and outer humidity.
- Load-resistant of shelves is 50kg/shelf. OK to change the position and removable.
- Casters are available by request.

### Easy to see

**Dual Digital Hygrometer** (Patented)



### ● Large capacity with deep depth (650mm)



Depth (Inner Size) 390mm

### TDC-150-DDX

Outside: 440 x 438 x 980mm  
Inside: 438 x 390 x 850mm (145L)  
100~115V (50/60Hz) 0.3~3.6W/H(Max120W)  
220~240V (50/60Hz) 0.15~1.8W/H(Max60W)  
Weight: 26 kg  
Accessories: 3 shelves, 2 keys  
\*Steel door is also available.

**Best seller model**



Depth (Inner Size) 390mm

### TDC-290-DDX

Outside: 880 x 438 x 980mm  
Inside: 878 x 390 x 850mm (291L)  
100~115V (50/60Hz) 0.3~7.2W/H(Max240W)  
220~240V (50/60Hz) 0.15~3.6W/H(Max120W)  
Weight: 50 kg  
Accessories: 3 shelves, 2 keys  
\*Steel door is also available.



Depth (Inner Size) 650mm

### TDC-500-DDX

Outside: 880 x 700 x 980mm  
Inside: 878 x 650 x 850mm (485L)  
100~115V (50/60Hz) 0.3~10.8W/H(Max360W)  
220~240V (50/60Hz) 0.15~5.4W/H(Max180W)  
Weight: 66 kg  
Accessories: 3 shelves, 2 keys  
\*Steel door is also available.

Power up type



### Ultra Ecology Design

**With humidity adjuster & control circuit IC timer**

Special desiccant (exchange-free) in the unit absorbs humidity inside the cabinet and with the combination work of IC timer, heating body and shape-memory alloy automatically exhausts the humidity outside. The cycle is repeated and the inside humidity is lowered and is also controlled by a humidity controller.

### TDC-PDX Type for Low Humidity (15~50% RH)

Recommendable for storing electronic parts, precision instruments, films, microfilms and etc with door opening frequency of several times a day.

**TDC-151-PDX, TDC-291-PDX, TDC-501-PDX**

\*Please ask us for the details of these.

- Drying unit Dial automatic adjustment method (Relative humidity, Accuracy +/- 5~7%)
- Cabinet material: High quality steel plate (0.8t) baking finish
- Door: PVC frame with magnet rubber, Clear safety tempered glass



## Middle Humidity Type to Ultra Low Humidity Type, 60 Types of Industrial Use to Choose from.

Economy type of the king size

2 door type



Depth (Inner Size) 650mm

### TDC-430-DDX

Outside: 600 x 700 x 1,310mm  
(Inc. caster)

Inside: 598 x 650 x 1,075mm (417L)

100~115V (50/60Hz) 0.3~10.8W/H(Max360W)

220~240V (50/60Hz) 0.15~5.4W/H(Max180W)

Weight: 50 kg

Accessories: 3 shelves, 2 keys

4 casters (2 with stopper)

Earth terminal

2 accumulation  
3 door type



Depth (Inner Size) 650mm

### TDC-650-DDX

Outside: 600 x 700 x 1,850mm  
(Inc. caster)

Inside: 598 x 650 x 1,620mm (630L)

100~115V (50/60Hz) 0.3~10.8W/H(Max360W)

220~240V (50/60Hz) 0.15~5.4W/H(Max180W)

Weight: 75 kg

Accessories: 5 shelves, 2 keys

4 casters (2 with stopper)

Earth terminal

4 door type



Depth (Inner Size) 650mm

### TDC-910-DDX

Outside: 1,200 x 700 x 1,310mm  
(Inc. caster)

Inside: 1,198 x 650 x 1,075mm (837L)

100~115V (50/60Hz) 0.3~14.4W/H(Max480W)

220~240V (50/60Hz) 0.15~7.2W/H(Max240W)

Weight: 85 kg

Accessories: 3 shelves, 2 keys

4 casters (2 with stopper)

Earth terminal

2 accumulation  
6 door type



Depth (Inner Size) 650mm

### TDC-1310-DDX

Outside: 1,200 x 700 x 1,850mm  
(Inc. caster)

Inside: 1,198 x 650 x 1,620mm (1,261L)

100~115V (50/60Hz) 0.3~18W/H(Max600W)

220~240V (50/60Hz) 0.15~9W/H(Max300W)

Weight: 120 kg

Accessories: 5 shelves, 2 keys

4 casters (2 with stopper)

Earth terminal

\*4 door type of TDC-1410-HDD is also available.

## Ultra Low Humidity

## Ultra Low Humidity Type, Antistatic Type (1~Lower than 3% RH)

### High performance Digital Hygrometer (Thermometer)

#### With data logging function

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

Equipped with built-in logging function high performance hygrometer



HN-CHN-DC

**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: -10~+/- 50 °C  
(+/-0.5 °C)  
With AC adaptor

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 spreadsheet is also available.



TDC-298-QA



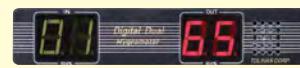
TDC-1318-QA

Wrist strap



→ Arrow indicates a wrist strap plug mouth.

### Convenient and Easy to See Dual Digital LED Hygrometer



Inside humidity Outside humidity

Dual digital (LED) Humidity Indication

**Inside humidity:** High polymer capacitance sensor  
0~90% RH indication  
Accuracy: +/- 3~5% RH  
(Depends on the conditions)  
**Outside humidity:** High polymer resistance-type sensor  
20~90% RH indication  
Accuracy: +/- 3~5% RH  
(Depends on the conditions)

Indicate the inside (Left side/ Green indication) and outside (Right side/ Red indication) humidity at the same time.

\*Indication by AC220V converted to DC12V, not battery operated.



TDC-298-ADD



TDC-1418-ADD

QA/ ADD Static Electricity Prevention Type (Prevent static electricity disorder on electronic parts and others)	
Body	Steel made, static electricity prevention paint, silver metal in color
Shelf	Steel made, static electricity prevention paint, load-resistant: 100kg/ shelf
Door	Static electricity prevention glass
Caster	Static electricity prevention, dust outbreak prevention, dust prevention effect type, Front casters with stopper
Accessories	1 wrist strap with 1 MΩ earthed line (keeps the human body at 0 unit electric potential). → Plug mouth is located on the body (1~2 places).

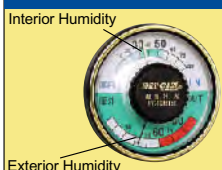
For the details, please request "Industrial use catalog 2012 version".

# PROFESSIONAL INDUSTRIAL SERIES

MIDDLE & LOWER  
HUMIDITY MODEL

Recommendable for Semiconductor, Electric, Precision instruments, Factory, Museum, Library, Hospital, Photo Studio etc.

## Analogue Dual Hygrometer



Dual hygrometer allows at-a-glance check of interior and exterior humidity.

HA type

Middle Humidity  
(30~50%RH)

Camera, Digital-Camera, Lens, Film, Tape, FD, CD, VHS, DVD, AV, Product, Binoculars, Optical, Telescope, Telephoto lens, Microscope, Microphone, Paper Craft, Fine Arts, etc

PHA type

Lower Humidity  
(15~50%RH)

Semiconductor, Electric parts, Condenser, Resistor  
Recommendable for several frequent door opening/day

PHA is up graded than HA.

## INDUSTRY SERIES

- Space-saving type: No protuberance inside enables maximum storage.
- Built-in desiccant works semi-permanently (exchange free)
- No center-pillar design provides wider storage space for long telephoto lenses or the like.
- Humidity controller (Pre-set type) provides suitable humidity and prevents objects from being over-dried (accuracy:  $\pm 5\sim 7\%$  RH)
- Noiseless operation without tremor.



(Inner:D=390mm)

**TDC-150-HA**  
**TDC-151-PHA**

Best Seller



(Inner:D=390mm)

**TDC-290-HA**  
**TDC-291-PHA**

\*Caster is available upon requested.



(Inner:D=650mm)

**TDC-500-HA**  
**TDC-501-PHA**



(Inner:D=650mm)

**TDC-430-HA**  
**TDC-431-PHA**

## SPECIFICATIONS

※Note: Specifications are subject to change without notice.

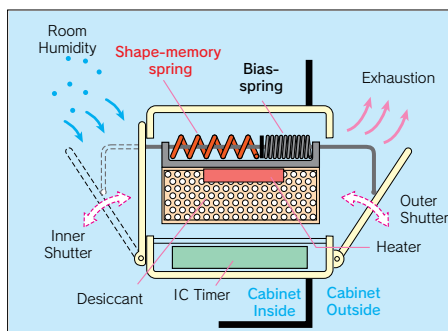
Model	TDC-150-HA/TDC-151-PHA	TDC-290-HA/TDC-291-PHA	TDC-500-HA/TDC-501-PHA	TDC-430-HA/TDC-431-PHA
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dual preset, automatic humidity control system			
Dimensions (W×D×H) Outer size : (mm) Inner size : (mm)	440×488×980 438×390×850	880×488×980 878×390×850	880×750×980 878×650×850	600×750×1,310 598×650×1,075
Material & finishing	Cabinet=High quality steel plate, hard coated w/melamine resin painted. Door =Glass window. Magnet rubber seal maintains high air tightness.			
Effective Capacity Main space : (liter)	145	291	485	417
Power source	AC100~115V(50/60Hz) or AC220V~240V(50/60Hz)			
Power consumption (W/H) (AC100V)	0~20W/H(MAX120W) 0~40W/H(MAX240W)	0~40W/H(MAX240W) 0~80W/H(MAX480W)	0~80W/H(MAX480W) 0~120W/H(MAX720W)	0~60W/H(MAX360W) 0~100W/H(MAX480W)
Weight (Kg.)	25/26	50/56	65/72	50/52
Removal shelf	3	3	3	3
Door key	2	2	2	2
Hygrometer	Analogue Dual 1	Analogue Dual 1	Analogue Dual 1	Analogue Dual 1
Caster	-	-	-	4

●Power consumption at AC 220V will be 1/2 W/H of AC 100V~115V

Equipped with "rubber lid" for wire hole

Remarks \* "DRY-CABI" has no function of heating, cooling or humidifying.

Allowance of Hygrometer \* Analogue type  $\pm 5\%$  in 40~70% range  $\pm 5\%$  in 30~40% and 70~90% range



## Dehumidifying Principle (Desiccant System)

(Patented) Thick Heat-extension memory alloy realizes trouble free operation

An exclusive high performance dry unit is set in DRY-CABI.

Special desiccant(exchange free)in the unit absorbs and emits the humidity alternately in accordance with the moves of Shape-memory alloy. The alloy is elastic with the humidity level which is controlled by IC timer.

## High quality DRY-UNIT(Desiccant system) 2000 ensures user satisfaction.



2000 Type DRY-UNIT, set on the bottom, increases absorbing power and offers maximum storage space.

Hook-less thick Heat-Extension Memory Alloy realizes trouble-free operation.

(No trouble happens on closing motions or the like because of fatigue, cutting off or corrosion with Heat-expansion memory alloy)

- Built-in Hygrometer displays humidity both inside and outside.
- Pilot lamp tells the condition whether the cabinet is working (lighting) or not in operation (not lighting)
- Removal shelf is steady and sturdy against heavy load  
[Max: approx 50kgs/per(TDC-150~500), 100kgs/per(TDC-430~1410)]
- Cabinet is made with hard coated high quality silver metallic steel.

**Easy to use high**

**Best Seller**



**TDC-910-HA**  
**TDC-911-PHA**



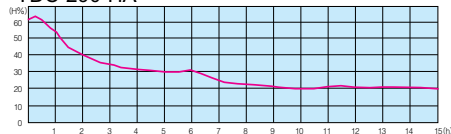
**TDC-1310-HA**  
**TDC-1311-PHA**



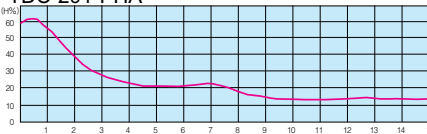
**TDC-1410-HA**  
**TDC-1411-PHA**

#### MEASURING DATA

TDC-290-HA



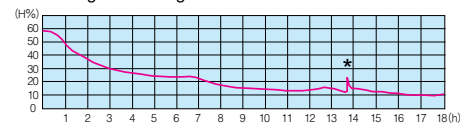
TDC-291-PHA



R. Temp 20°C,  
Humidity 65%RH.  
Controller set at  
"ON" position

#### MEASURING DATA [TDC-1311-PHA]

R:Temp 22°C, Humidity 65%RH.  
\*Door of Middle Cabinet, open for 30 sec,  
at angle of 90 degrees



#### SPECIFICATIONS

※Note:Specifications are subject to change without notice.

Model	TDC-910-HA / 911-PHA	TDC-1310-HA / 1311-PHA	TDC-1410-HA / 1411-PHA
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dual preset, automatic humidity control system		
Dimensions (WxDxH) Outer size : (mm) Inner size : (mm)	1,200x750x1,310 1,198x650x1,075	1,200x750x1,850 1,198x650x1,620	
Material & finishing	Cabinet=High quality steel plate, hard coated w/melamine resin painted. Door=Glass window. Powerful magnet rubber seal maintains high air tightness.		
Effective Capacity Main space : (liter)	837	1,261	
Power source	AC100~115V(50/60Hz) or AC220V~240V(50/60Hz)		
Power consumption (W/H) (AC100V)	0~80W/H(MAX480W) 0~180W/H(MAX1,080W)	0~100W/H(MAX600W) 0~280W/H(MAX1,680W)	
Weight (Kg.)	85 / 90	120 / 130	
Removal shelf	3	5	
Door key	2		
Hygrometer	Analogue Dual 1		
Caster	4		

●Power consumption at AC 220V will be 1/2 W/H of AC 100V~115V

Remarks \* "DRY-CABI" has no function of heating, cooling or humidifying.

#### Allowance of Hygrometer

\* Analogue type ±5% in 40~70% range ±5% in 30~40% and 70~90% range

Equipped with "rubber lid" for wire hole

#### Option

- Extra Shelf  
TDC-150,290,500,430  
TDC-910,1310,1410
- Stainless Shelf
- Caster w/stopper for  
TDC-150~500
- Socket for N<sub>2</sub> Gas
- Dual Hygrometer  
for middle or low humidity

#### Accessories for Safety Use



- Non Fall-down Metal Fittings  
(fixing to the wall)
- Joint Metal Fittings (for pile-up type)



# PROFESSIONAL INDUSTRIAL SERIES

MIDDLE & LOWER  
HUMIDITY MODEL

Recommendable for Semiconductor, Electric, Precision instruments, Factory, Museum, Library, Hospital, Photo Studio etc.

Digital  
Dual  
Hygrometer

**HDD type** Middle Humidity  
(30~50%RH)

Camera, Digital-Camera, Lens, Film, Tape, FD, CD, VHS, DVD, AV, Binoculars, Optical, Telescope, Telephoto lens, Microscope, Microphone, Paper Craft, Fine Arts, etc

**PDD type** Lower Humidity  
(15~50%RH)

Semiconductor, Electric parts, Condenser, Resistor  
Recommendable for several times door opening/day

PDD is up graded than HDD.

**The world's first!!**

## Digital Dual Special Series

Clear indication, Convenient  
Digital Dual Hygrometer

Inside(Left/Green) Outside(Right/Red)

\*AC100V→DC12V. Non-battery type.



Inside Humidity

Outside Humidity

### Digital Dual(LED) indication

- Inside humidity : High-polymer capacitance type sensor 0-90%RH
- Outside humidity : Semiconductor type sensor 20-90%RH

Accuracy:  $\pm 3\sim 5\%$  RH (depend on the condition)



(Inner:D=390mm)

**TDC-150-HDD**  
**TDC-151-PDD**



(Inner:D=390mm)

**TDC-290-HDD**  
**TDC-291-PDD**

\*Caster is available upon requested.



(Inner:D=650mm)

**TDC-500-HDD**  
**TDC-501-PDD**



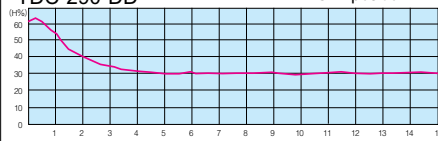
(Inner:D=650mm)

**TDC-430-HDD**  
**TDC-431-PDD**

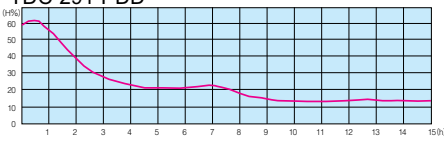
### MEASURING DATA

R. Temp 20°C,  
Humidity 65%RH.  
Controller set at  
"ON" position

TDC-290-DD



TDC-291-PDD



### Options

- Extra Shelf  
TDC-150, 290, 500, 430  
TDC-910, 1310, 1410
- Stainless Shelf
- Caster w/stopper for  
TDC-150~500
- Soket for N<sub>2</sub> Gas
- Dual Hygrometer for  
middle or low humidity

### Accessories for Safety Use



- Non Fall-down Metal Fittings  
(fixing to the wall)
- Joint Metal Fittings  
(for pile-up type)

### SPECIFICATIONS

※Note: Specifications are subject to change without notice.

Model	TDC-150-HDD/ TDC-151-PDD	TDC-290-HDD/ TDC-291-PDD	TDC-500-HDD/ TDC-501-PDD	TDC-430-HDD/ TDC-431-PDD
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dual preset, automatic humidity control system			
Dimensions (W×D×H) Outer size : (mm) Inner size : (mm)	440×468×980 438×390×850	880×468×980 878×390×850	880×730×980 878×650×850	600×730×1,310 598×650×1,075
Material & finishing	Cabinet=High quality steel plate, hard coated w/melamine resin painted. Door =Glass window. Magnet rubber seal maintains high air tightness.			
Effective Capacity Main space : (liter)	145	291	485	417
Power source	AC100~115V(50/60Hz) or AC220V~240V(50/60Hz)			
Power consumption (W/H) (AC100V)	0.5~20W/H(MAX120W) 0.5~40W/H(MAX240W)	0.5~40W/H(MAX240W) 0.5~80W/H(MAX480W)	0.5~80W/H(MAX480W) 0.5~120W/H(MAX720W)	0.5~60W/H(MAX360W) 0.5~100W/H(MAX600W)
Weight (Kg.)	26 / 27	51 / 57	66 / 73	51/53
Removal shelf	3	3	3	3
Door key	2	2	2	2
Caster	-	-	-	4

\*Inside dimension is announced upon questioned.

\*No functions, such as dehumidifying or temperaturer controlling, are available.

\*Humidifier ambit & accuracy : 40-70%RH ( $\pm 5\%$  RH) 70-90%RH ( $\pm 5\sim 7\%$  RH)

\*Power consumption is shown only at start-up.(Timer works 40 minutes/6 hours, 160 minutes/24 hours)

Equipped with "rubber lid" for wire hole



- All the models made-up with Silver metallic coating, minimizing static electricity and dust.
- Humidity is indicated with LED.
- Shelf board : Tolerance 50kg/per, Removable and seesaw movement.(large size:100kg/per)
- AC outlet is inside.
- Setting high quality DRY-UNIT at the bottom maximizes storage space.
- High quality DRY-UNIT has been earning users' highest opinion for more than 21 years.

- Special desiccant in DRY-UNIT is semi permanent and is exchange free.
- Double door, with magnet rubber doors, offer easiest objects in and out.
- Convenient Lock-Key Handle.
- Humidity controller keeps suitable humidity, (Accuracy :  $\pm 5\sim 7\%$ RH)
- Operation under normal temperature.
- Noiseless and no tremor. Long life.
- No (protuberance) is inside.

**Easy to use high**

**Best Seller**



(Inner:D=650mm)  
**TDC-910-HDD**  
**TDC-911-PDD**



(Inner:D=650mm)  
**TDC-1310-HDD**  
**TDC-1311-PDD**



(Inner:D=650mm)  
**TDC-1410-HDD**  
**TDC-1411-PDD**

## Digital Hygrometer that data Keeping are recorded(option)

### High performance Digital Humidity



HN-CHN-DC  
for QA type

### Comes With data logging function!! (option)

#### ●Humidity

Sensor:High-polymer capacitance type  
Measuring range:0 to 100%RH  
Accuracy rating: $\pm 2\%$ RH(at 0 to 90%RH & 25°C)  
Temperature coefficient: $\pm 0.1$  RH/°C(5 to 80°C)

#### ●Temperature

Sensor:Semiconductor type  
Measuring range:-10 to  $\pm 50$  °C( $\pm 0.5$ °C)

- with AC adapter (available battery use)

### MEASURING DATA [TDC-1311-PDD]

R. Temp 22°C, Humidity 65%RH.  
\* Door of Middle Cabinet, open for 30 sec, at angle of 90 degrees



### High quality DRY-UNIT(Desiccant system) 2000 ensures user satisfaction.



2000 Type DRY-UNIT, set on the bottom, increases absorbing power and offers maximum space.

**Hook-less thick Heat-Extension Memory Alloy realizes trouble-free operation.**

(No trouble happens on closing motions or the like because of fatigue, cutting off or corrosion with Heat-expansion memory alloy)

## SPECIFICATIONS

※Note:Specifications are subject to change without notice.

Model	TDC-910-HDD / 911-PDD	TDC-1310-HDD / 1311-PDD	TDC-1410-HDD / 1411-PDD
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dual preset, automatic humidity control system		
Dimensions (WxDxH) Outer size : (mm) Inner size : (mm)	1,200x730x1,310 1,198x650x1,075	1,200x730x1,850 1,198x650x1,620	
Material & finishing	Cabinet=High quality steel plate, hard coated w/melamine resin painted. Door=Glass window. Powerful magnet rubber seal maintains high air tightness.		
Effective Capacity Main space : (liter)	837	1,261	
Power source	AC100~115V(50/60Hz) or AC220V~240V(50/60Hz)		
Power consumption (W/H) (AC100V)	0.5~80W/H(MAX480W) 0.5~180W/H(MAX1,080W)	0.5~100W/H(MAX600W) 0.5~280W/H(MAX1,680W)	
Weight (Kg.)	86 / 91	121 / 131	
Removal shelf	3	5	
Door key		2	
Caster		4	

\*Inside dimension is announced upon questioned.

\*No functions, such as dehumidifying or temperature controlling, are available.

\*Humidifier ambit & accuracy : 40-70%RH( $\pm 5\%$ RH) 70-90%RH( $\pm 5\sim 7\%$ RH)

\*Power consumption is shown only at start-up.(Timer works 40 minutes/6 hours, 160 minutes/24 hours)

Equipped with "rubber lid" for wire hole

# ULTRA LOW Humidity

(Below 1~3%RH)

\*Holding low humidity after opening dehumidified packing Based on IC package standard "New IPC/JEDEC J-STD-033"  
\*Holding circuit board in low humidity.

Specification	Ultra low humidity/Anti-static ADD / QA	Ultra low humidity/Standard SDD
Main body	Steel(anti-static silver metallic)	Steel(silver metallic coating)
Shelf	Steel(anti-static silver metallic)	Steel(silver metallic coating)
Door	Anti-static glass board	Glass board
Hygrometer	QA:Digital (with thermometer)(HN-CHN) / ADD/SDD:Digital dual LED indication(ceiling board)	
	*Inside humidity:High-polymer capacitance type sensor 0-90%RH *Outside humidity:Semiconductor type sensor 20-90%RH *QA:Inside display humidity only.	
Caster(option)	Anti-static, anti-dust type	Polyurethane(anti-dust type)
	Except large models	

\*Photo is TDC-158-ADD/298-ADD

\*Photo is TDC-508-QA



(Inner:D=390mm)

**TDC-158-ADD**  
**TDC-158-QA**



(Inner:D=390mm)

**TDC-298-ADD**  
**TDC-298-QA**



(Inner:D=650mm)

**TDC-508-ADD**  
**TDC-508-QA**



(Inner:D=650mm)

**TDC-438-ADD**  
**TDC-438-QA**

## SPECIFICATIONS

※Note:Specifications are subject to change without notice.

Model	TDC-158-ADD/TDC-158-QA	TDC-298-ADD/TDC-298-QA	TDC-508-ADD/TDC-508-QA	TDC-438-ADD/TDC-438-QA
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dual preset, automatic humidity control system			
Dimensions (W×D×H) Outer size : (mm) Inner size : (mm)	440×463×980 438×390×850	880×463×980 878×390×850	880×730×980 878×650×850	600×730×1,310 598×650×1,075
Material & finishing	Cabinet=High quality steel plate, hard coated w/melamine resin painted. Door=Glass window. Magnet rubber seal maintains high air tightness.			
Effective Capacity Main space : (liter)	145	291	485	417
Power source	AC100~115V(50/60Hz) or AC220V~240V(50/60Hz)			
Power consumption (W/H) (AC100V)	0.5~21W/H(MAX140W)	0.5~33W/H(MAX250W)	0.5~47W/H(MAX370W)	0.5~47W/H(MAX370W)
Weight (Kg.)	28	58	75	55
Removal shelf	3	3	3	3
Door key	2	2	2	2
Caster	-	-	-	4

\*Inside dimension is announced upon questioned.

Equipped with "rubber lid" for wire hole

\*No functions, such as dehumidifying or temperature controlling, are available. \*Humidifier ambit & accuracy : 40-70%RH(±5%RH) 70-90%RH(±5~7%RH)

\*Power consumption is shown only at start-up.(Timer works 40 minutes/6 hours, 160 minutes/24 hours)

## Dehumidifying IC packages

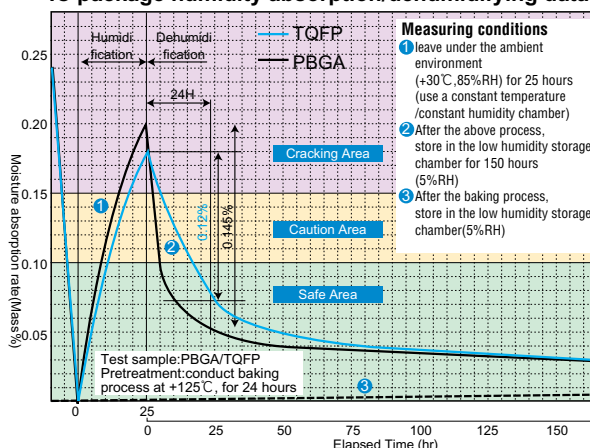
To use as baking-alternative process  
Most suitable CSP/BGA, TQFP, TSOP

- 1 Take IC packages out of water vapor-proof packaging, store them in the low humidity storage chamber at under 5% RH for over 12 hours, before surface mounting.
- 2 Store the IC packages, that have been exposed under room environment, in the low humidity storage chamber under RH 5% for about 50 hours before surface-mounting.

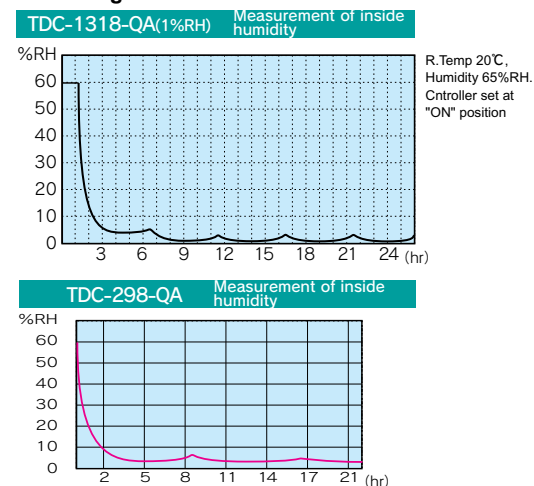
## Low humidity storing of IC packages

- 1 Store in the low humidity chamber at under 5% RH, after baking treatment.
- 2 At multi-item/ few quantity production, storage of IC packages on unfinished products, after being taken out of water vapor-proof packaging.
- 3 Low humidity storage of CSP/BGA and custom ICs.

## IC package humidity absorption/dehumidifying data



## Measuring data





- \*Holding liquid crystal glass board, crystal vibration factor in low humidity.
- \*Improving yield rate during in practice.
- \*Quality controlling.
- \*Cost lowering through N<sub>2</sub> gas replacement and combination N<sub>2</sub> with other substance.

**The world's first!!**

## ADD/SDD Digital Dual Special Series

### Clear indicated, Convenient Digital Dual Hygrometer

Inside(Left/Green) Outside(Right/Red)

\*AC100V→DC12V. Non-battery type.



Inside Humidity

Outside Humidity

### Digital Dual(LED) indication

■ Inside humidity : High-polymer capacitance type sensor 0-90%RH

■ Outside humidity : Semiconductor type sensor 20-90%RH

Accuracy: ±3~5%RH(depend on the condition)

- Reliable large DRY-UNIT realized rapid dehumidifying and holding stable low humidity.
- Special desiccant in DRY-UNIT is semi-permanent.
- Operation in normal temperature, noiseless, tremor free. Long life.
- High-polymer capacitance type sensor digital hygrometer reads lower humidity(indicates 0-90%RH)
- Double door with no center pillar, offers maximum storage space, and enables long telephoto lens comfortable lodging.
- Door frame covered with magnet rubber keeps most reliable air-tightness.
- Transparent anti-static glass window. Lock-Key handle.
- Humidity controller maintains stable constant humidity.
- Power distribution lamp and in operation lamp.
- Sturdy and durable shelf(tolerance:100kgs/per) is movable up and down.
- Shelf is made from steel. ■ Most economical. Running cost is electricity alone.
- Electrifying caster (minimizing static buildup and dust bearing)ADD/QA
- AC outlet is inside. ■ With 1Ω earth cord.

### High Quality Ultra Dehumidifier(Patented)



Heat ventilation type with rapid dehumidifying function. While special desiccant absorbs inside humidity, IC timer, heating posistor and memory alloy help the desiccant emitting vaporized humidity outside repeatedly until suitable condition is obtained.

DRY-UNIT 3200, 4000, 5000, 6000 model

### Dry-Furnace that can be heated

TDC-918-DFU TDC-1318-DFU TDC-1418-DFU

Please inquire details.



**TDC-918-ADD TDC-918-QA**  
**TDC-919-SDD**  
**Dry-Furnace TDC-918-DFU**



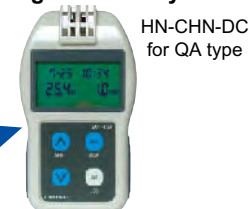
**TDC-1318-ADD TDC-1318-QA**  
**TDC-1319-SDD**  
**Dry-Furnace TDC-1318-DFU**



**TDC-1418-ADD TDC-1418-QA**  
**TDC-1419-SDD**  
**Dry-Furnace TDC-1418-DFU**

### Digital Hygrometer for TDC-QA models (TDC-158-QA~TDC-1418-QA)

High performance Digital Humidity



**Comes With data logging function!! (option)**

#### ●Humidity

Sensor:High-polymer capacitance type  
Measuring range:0 to 100%RH  
Accuracy rating:±2%RH(at 0 to 90%RH & 25°C)  
Temperature coefficient:±0.1 RH/°C(5 to 80°C)

#### ●Temperature

Sensor:Semiconductor type  
Measuring range:-10 to ±50 °C(±0.5°C)

■ with AC adapter (available battery use)

## SPECIFICATIONS

※Note:Specifications are subject to change without notice.

Model	TDC-918-ADD / 919-SDD TDC-918-QA	TDC-1318-ADD / 1319-SDD TDC-1318-QA	TDC-1418-ADD / 1419-SDD TDC-1418-QA
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dual preset, automatic humidity control system		
Dimensions (WxDxH) Outer size : (mm) Inner size : (mm)	1,200x730x1,310 1,198x650x1,075	1,200x730x1,850 1,198x650x1,620	
Material & finishing	Cabinet=High quality steel plate, hard coated w/melamine resin painted. Door=Glass window. Powerful magnet rubber seal maintains high air tightness.		
Effective Capacity Main space : (liter)	837	1,261	
Power source	AC100~115V(50/60Hz) or AC220V~240V(50/60Hz)		
Power consumption (W/H) (AC100V)	0.5~47W/H(MAX370W)	ADD/QA 0.5~94W/H(MAX740W) SDD 0.5~47W/H(MAX370W)	
Weight (Kg.)	98	150 / 145	150 / 145
Removal shelf	3	5	
Door key	2		
Caster	4		

\*Inside dimension is announced upon questioned.

\*No functions, such as dehumidifying or temperature controlling, are available.

\*Humidifier ambit & accuracy : 40-70%RH(±5%RH) 70-90%RH(±5~7%RH)

\*Power consumption is shown only at start-up.(Timer works 40 minutes/6 hours, 160 minutes/24 hours)

Equipped with "rubber lid" for wire hole

# NEW Clean DRY-CABI

## Ultra Ecology Design

Best Seller

- With new high performance, energy-saving drying unit, consume a very little electricity.
- Consumption electricity is as low as 0.3 to 3.6W/H (Average)
- No expendable supplies

World's first

Mold prevention

Antibacterial

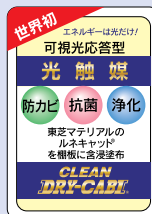
Deodorization

Purification

Drying cabinets, DRY-CABI adopt epoch-making photocatalyst

All models

Visible Light Responsive



- Sprayed indoor-light reacting photocatalyst resolute and remove bacteria, virus, odor and etc from the Inside cabinet.

Without exclusive illumination, with the wide area and capacity, maximize the effect of purification.

- The effect overwhelms the conventional.

### Visible light responsive photocatalyst

We adopt the photocatalyst of Toshiba Materials Co., Ltd. Toshiba Materials has developed an innovative non-titania photocatalyst that reacts to visible light at an illuminance as low as 200 lux (200 lux is the typical light level of a living room).



Compact and space saving (29.8cm Depth). Can place it anywhere.



Compact type

Capacity: 6~9 SLRs

### T-33D-MII

Outside: 360 x 300 x 490mm  
Inside: 358 x 230 x 408mm (34L)  
100V (50/60Hz) 0.3~1.82W/H  
220V (50/60Hz) 0.15~0.91W/H  
Weight: 9 kg  
Accessories: 2 shelves, 1 tray, 2 keys



Compact type

Capacity: 9~12 SLRs

### T-83D-MII

Outside: 400 x 300 x 600mm  
Inside: 398 x 230 x 510mm (47L)  
100V (50/60Hz) 0.3~1.82W/H  
220V (50/60Hz) 0.15~0.91W/H  
Weight: 10 kg  
Accessories: 2 shelves, 1 tray, 2 keys

## NEW H-D Series

Because of a power supply direct connection type, battery is not needed.



Capacity: 12~15 SLRs

### H-60D-MII

Outside: 400 x 384 x 520mm  
Inside: 398 x 320 x 440mm (56L)  
100V (50/60Hz) 0.3~1.82W/H  
220V (50/60Hz) 0.15~0.91W/H

Weight: 10 kg  
Accessories: 2 shelves, 1 tray, 2 keys

### How to choose a good drying cabinet

Goods to store such as cameras, lenses and recording media increase unknowingly. Purchasing larger size of drying cabinet is recommended.

- Number of goods (Number of Shelf)
- Reliable, sturdy and durable one
- High quality ● Easy to use ● Affordable

## New energy-saving & space-saving desiccators

High performance drying unit (drying material system) gets it done.

High efficiency seesaw type ventilation shutter works well and maximizes humidity absorption & ventilation.

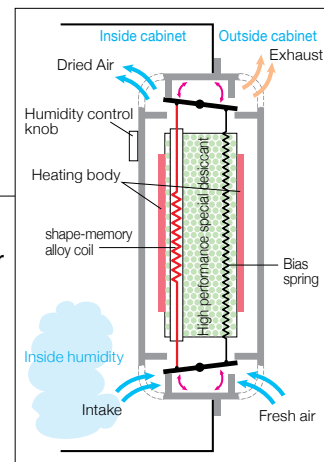
The absorption & ventilation cycle of new drying unit became 4 hours (3 hours and 30 minutes absorption and 30 minutes ventilation) from the previous 6 hours cycle and it is energy-saving and comes with compact design located at the deep inside of cabinet.

## Ultra Ecology Design



## With humidity adjuster & control circuit IC timer

Special desiccant (exchange-free) in the unit absorbs humidity inside the cabinet and with the combination work of IC timer, heating body and shape-memory alloy automatically exhausts the humidity outside. The cycle is repeated and the inside humidity is lowered and is also controlled by a humidity controller.





## Convenient, top located outlet

(Located upper back side, with 30cm code)

Easy to charge batteries of cameras and mobile phones.

## The first in the world, Special Series Dual digital hygrometer

**Very popular**



Power supply direct connection  
No need of battery

- Shelves are made of sturdy steel (Load-resistant: 50kg /shelf) and are covered with high quality navy blue cushion sheet which softens the shock of putting things in. Shelves are also movable to upper or lower.
- Fashionable and sturdy clear tempered glass provides security and solid feeling (Magnet rubber maintains air-tightness well).
- Equipped with high performance, reliable desiccators and humidity controller located at the lower deep inside.
- Door knob with lock is convenient. Easy to use and prevent stored goods from carrying out.
- Spacey inside cabinet & useful steel tray



Capacity: **18-21** SLRs

### H-80D-MII

Outside: 400 x 384 x 674mm  
Inside: 398 x 320 x 594mm (76L)  
100V (50/60Hz) 0.3~1.82W/H  
220V (50/60Hz) 0.15~0.91W/H  
Weight: 12 kg  
Accessories: 3 shelves, 1 tray, 2 keys

## Special series of dual digital hygrometer

- Noise free, vibration free, low humidity keeping at ambient temperature and long-term consecutive driving
- Energy saving design – maintenance cost is only a very little electricity. It comes with humidity controller.
- No expendable supplies (Exchange free desiccant), very economical.
- No use of batteries for hygrometer.
- With high technology (Photocatalyst, IC timer, shape-memory alloy and dual digital hygrometer)
- Long lasting and highly reliable
- With detachable shelves, wide space is available to use.
- Convenient tray comes in all models.

Camera, Video  
Correspond to digital age  
Digital camera

Pretty cushion sheet  
Nice navy blue

\*The lens mat in each cabinet is optional.

**Best seller model**



Capacity: **24-27** SLRs

### H-110D-MII

Outside: 400 x 384 x 918mm  
Inside: 398 x 320 x 838mm (107L)  
100V (50/60Hz) 0.3~1.82W/H  
220V (50/60Hz) 0.15~0.91W/H  
Weight: 16 kg  
Accessories: 4 shelves, 1 tray, 2 keys



Capacity: **36-39** SLRs

### H-180D-MII

Outside: 400 x 381 x 1,315mm  
Inside: 398 x 320 x 1,235mm (157L)  
100V (50/60Hz) 0.3~3.6W/H  
220V (50/60Hz) 0.15~1.8W/H  
Weight: 25 kg  
Accessories: 6 shelves, 1 tray, 2 keys

\*Stored goods and lens mat in the photos are not included.

\*Casters are option and are easy to attach (For H-60D-MII to 180D-MII, 115WD-MII).

■ Drying unit Dial automatic adjustment method (Relative humidity, Accuracy+/- 5~7%) ■ Cabinet material: High quality steel plate (0.8t) baking finish

\*Relative humidity (%) changes by changing temperature.

■ Door: PVC frame with magnet rubber, Clear safety tempered glass

- Dimensions are indicated W (Width) x D (Depth) x H (Height) in mm respectively.
- DRY-CABI does not have functions of increasing humidity, increasing temperature and decreasing temperature inside the cabinet.
- Range and accuracy of hygrometer monitor:  
Digital method: 20~90%RH Accuracy +/- 5%RH  
Analog method: 20~90%RH Accuracy +/- 5~7%RH

**Caution:** In case, moving from low temperature area to high temperature area, it suddenly condenses dew.

**Dual digital MII release  
Special campaign**



**Subject to: all models of dual digital type**

**Purchase of any dual digital type, you will get: Tray for battery charge and exclusive cord**

Tray/ W 27.5 x D 18 x H 4 cm Material: PP, Black  
Code/ Length: Around 50 cm, including plug Voltage:  
Electric Power: 220V Max up to 250W

\*The dimensions may change for convenience.

**The first in the world, Special Series  
Dual digital hygrometer**



Inside humidity    Outside humidity

Power supply direct connection  
No need of battery

\*The lens mat in each cabinet is optional.



With convenient casters

With 3 shelves    Capacity: **42~45** SLRs

**H-155WD-MII**

Outside: 805 x 381 x 725mm (With casters)  
Inside: 803 x 320 x 592mm (152L)  
100V (50/60Hz) 0.3~3.6W/H  
220V (50/60Hz) 0.15~1.8W/H  
Weight: 25 kg  
Accessories: 3 shelves, 1 tray, 2 keys  
4 casters (2 with stopper)



**Reliable Wide Type**

**Easy accommodation of  
lengthy goods**

Center pillar is detachable.  
Large capacity with many shelves

With 2 shelves    Capacity: **30~33** SLRs

**H-115WD-MII**

Outside: 805 x 384 x 522mm  
Inside: 803 x 320 x 442mm (114L)  
100V (50/60Hz) 0.3~1.82W/H  
220V (50/60Hz) 0.15~0.91W/H  
Weight: 20 kg  
Accessories: 2 shelves, 1 tray, 2 keys

**No.1 Popularity**



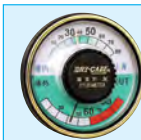
With convenient casters

With 4 shelves    Capacity: **54~57** SLRs

**H-205WD-MII**

Outside: 805 x 381 x 975mm (With casters)  
Inside: 803 x 320 x 790mm (203L)  
100V (50/60Hz) 0.3~3.6W/H  
220V (50/60Hz) 0.15~1.8W/H  
Weight: 36 kg  
Accessories: 4 shelves, 1 tray, 2 keys  
4 casters (2 with stopper)

**Popular and Stable Long Seller!! Analog Hygrometer: HD-B-MII Type**



Exclusive in the world,  
**Convenient Dual  
Hygrometer**

Dual hygrometer allows  
at-a-glance read-out of both  
inner and outer humidity.

\*Accuracy: +/- 5% RH at humidity ranging from 40~80% RH.

- Convenient dual hygrometer
- High quality with sturdy body
- Tempered glass door with key
- Comes with operation lamp



**Best seller  
model**

Pretty cushion sheet  
Nice navy blue



**HD-60B-MII**    Capacity: **12~15** SLRs

Outside: 400 x 388 x 516mm  
Inside: 398 x 320 x 436mm (55L)  
100V (50/60Hz) 1.54W/H  
220V (50/60Hz) 0.77W/H  
Weight: 10 kg  
Accessories: 2 shelves, 1 tray, 2 keys  
1 dual hygrometer



**HD-80B-MII**    Capacity: **18~21** SLRs

Outside: 400 x 384 x 667mm  
Inside: 398 x 320 x 587mm (75L)  
100V (50/60Hz) 1.54W/H  
220V (50/60Hz) 0.77W/H  
Weight: 12 kg  
Accessories: 3 shelves, 1 tray, 2 keys  
1 dual hygrometer



**HD-110B-MII**    Capacity: **24~27** SLRs

Outside: 400 x 388 x 911mm  
Inside: 398 x 320 x 831mm (106L)  
100V (50/60Hz) 1.54W/H  
220V (50/60Hz) 0.77W/H  
Weight: 16 kg  
Accessories: 4 shelves, 1 tray, 2 keys  
1 dual hygrometer

■ Drying unit    Dial automatic adjustment method (Relative humidity, Accuracy +/- 5~7%)

\*Relative humidity (%) changes by changing temperature.

■ Cabinet material: High quality steel plate (0.8t) baking finish

■ Door: PVC frame with magnet rubber, Clear safety tempered glass

● Dimensions are indicated W (Width) x D (Depth) x H (Height) in mm respectively.

● DRY-CABI does not have functions of increasing humidity, increasing temperature and decreasing temperature inside the cabinet.

● Range and accuracy of hygrometer monitor: Digital method: 20~90%RH Accuracy +/- 5%RH

Analog method: 20~90%RH Accuracy +/- 5~7%RH

**Caution:** In case, moving from low temperature area to high temperature area, it suddenly condenses dew.



## Compact Type (Depth 29.8 cm), Economy Series

Analog hygrometer with thermometer

**Comes with Fashionable Red Sheet!**

\*The lens mat in each cabinet is optional.



Compact type



Compact type



Compact type

- Compact but Large Capacity!  
With 4 shelves  
Enlarged storing space
- Comes with outlet for charge  
Very convenient for battery charge

### NT-33-MII

Capacity: **4~6** SLRs

Outside: 360 x 300 x 490mm  
Inside: 358 x 230 x 401mm (33L)  
100V (50/60Hz) 1.54W/H  
220V (50/60Hz) 0.77W/H  
Weight: 8 kg  
Accessories: 1 shelf, 1 tray, 2 keys  
1 hygrometer with thermometer

### NT-83-MII

Capacity: **9~12** SLRs

Outside: 400 x 300 x 600mm  
Inside: 398 x 230 x 503mm (46L)  
100V (50/60Hz) 1.54W/H  
220V (50/60Hz) 0.77W/H  
Weight: 10 kg  
Accessories: 2 shelves, 1 tray, 2 keys  
1 hygrometer with thermometer

### NT-103-MII

Capacity: **More than 20** SLRs

Outside: 400 x 300 x 914mm  
Inside: 398 x 230 x 834mm (76L)  
100V (50/60Hz) 1.54W/H  
220V (50/60Hz) 0.77W/H  
Weight: 14 kg  
Accessories: 4 shelves, 1 tray, 2 keys  
1 hygrometer with thermometer  
1 tray and 1 code for Battery charge

## Fashionable White Color!!

Compact Type in White Color



Capacity: **4~6** SLRs

### NT-33-MII WH

Outside: 360 x 300 x 490mm  
Inside: 358 x 230 x 401mm (33L)  
100V (50/60Hz) 1.54W/H  
220V (50/60Hz) 0.77W/H  
Weight: 8 kg  
Accessories: 1 shelf, 1 tray, 2 keys  
1 hygrometer with thermometer

**New Release!!**



NT-33-MII WH Stored Example



Capacity: **9~12** SLRs

### NT-83-MII WH

Outside: 400 x 300 x 600mm  
Inside: 398 x 230 x 503mm (46L)  
100V (50/60Hz) 1.54W/H  
220V (50/60Hz) 0.77W/H  
Weight: 10 kg  
Accessories: 2 shelves, 1 tray, 2 keys  
1 hygrometer with thermometer



NT-83-MII WH Stored Example

\*Stored goods and lens mat in the photos are not included. \*Casters are optional and are easy to attach (for HD-60B-MII~180B-MII, NT-103-MII).

## Options

- Photocatalyst sprayed H-D/ HD-B type shelf  
(Covered with sheet and with 4 hooks)  
For 60~180 and 115~205



- Photocatalyst sprayed NT/ T-D type shelf  
(Covered with sheet and with 4 hooks)  
For 33 and 83/103



Please inquire if you need the shelf board of  
NT-33-MIIWH/NT-83-MIIWH

- TDC-150 type shelf with 4 hooks  
TDC-290 type shelf with 4 hooks  
TDC-500 type shelf with 4 hooks  
TDC-1310/1410 type shelf with 4 hooks  
\*Stainless shelf requires a quotation.



- Lens mat (For fall down prevention) Material: PE foaming

Large (4 ditches)  
For all models  
Except NT/T-D



Dimensions: Width  
370 x Depth 240 x Thickness 10~30mm

Small (3 ditches)  
For NT/T-D



Dimensions: Width  
290 x Depth 180 x Thickness 10~30mm

- Hygrometer for NT



- Dual hygrometer (For middle humidity)



- Castor (1 set of 4, 2 with stopper)  
For small type (H-D type, HD type  
60B~110B type/ NT type, T-D type)



- Fixed metal fitting for fall-down prevention  
1 set of 2



- Connection metal fitting for two accumulation use  
1 set of 2



- Fall prevention earthquake proofing appliance (With remover)  
(Fall prevention of the main body caused by earthquakes; Withstand seismic intensity 7 earthquakes; Usable again and again)  
For large type (TDC type) 1 set of 2  
For small type (H, HD, NT, T type) 1 set of 2



- Corner safety pat  
1 set of 4

Tolihan's unique "Thermo Module Dehumidifying System" enables functions in one cabinet.

Dry(Dehumidify)and  
Wet(Humidify)

**WET-CABI**

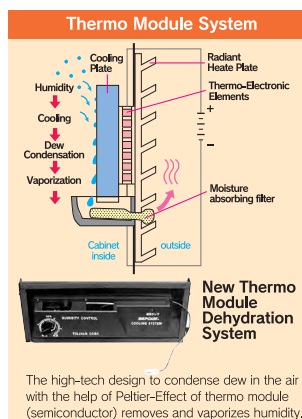
Humidity preset range:  
30~75%RH(±5%)

Recommendable for storage of : Arts & Crafts, Old books, Paper Crafts, Woodwind or Wind instruments, Cigar, Industrial products (for antistatic). Suitable as the desiccator and humidifier for the lab & industry usage.

## Prevent Inordinate Dry

### [Features]

- WET-CABI, "HUMIDOR" controls inside humidity by Hi-tec Thermo Module and badge system in range of 30~75%RH.
- Full automatic humidity controls system. [Humidifying water is supplied by hand. Supply humidifying water by hand.]
- Door with powerful magnet rubber seal maintains high airtightness.
- Easy checking of inside humidity and temp by equipped Thermo-hygrometer.
- Power saving design and quiet operation, vibration free.



Inordinate dry may damage or break important and precision parts.

Furthermore, under the dry surrounding, 'static electricity' will be much generative, which will also damage the important 'data' or 'devices'.

Humidity preset range:30~75%RH(±5%) or more.

\*Cabinet inside temperature is normal



TDC-290-AHU

(Inner:D=390mm)



TDC-500-AHU

(Inner:D=650mm)



TDC-650-AHU

(Inner:D=650mm)



TDC-1310-AHU

(Inner:D=650mm)

### SPECIFICATIONS

※Note:Specifications are subject to change without notice.

Model	TDC-290-AHU	TDC-500-AHU	TDC-650-AHU	TDC-1310-AHU
Dehumidifying & Humidity control	Full automatic dehumidifying by powerful desiccant, Dual preset, automatic humidity control system			
Dimensions Outer size:(mm) (W×D×H)	880×500×980	880×762×980	600×762×1,850	1,200×762×1,850
Inner size:(mm)	878×390×850	878×650×850	598×650×1,620	1,198×650×1,620
Material & finishing	Cabinet=High quality steel plate, hard coated w/melamine resin paint. Door=Glass window. Magnet rubber seal maintains high air tightness.			
Effective Capacity Main space:(liter)	291	485	630	1,261
Power source	AC100~115V(50/60Hz) or AC220V~240V(50/60Hz)			
Ventilation	Intermittent ventilation system with fan			
Power consumption (W/H) (AC100V)	MAX26W/H	MAX26W/H	MAX34W/H	MAX67W/H
Weight (Kg.)	50	65	75	150
[Accessories]	Removal shelf	3	5	5
	Door key	2	2	2
	Tray set	1	1	2
	Humidity Liquid	1	1	2
	Caster	-	4	4

●Power consumption at AC 220V will be 1/2 W/H of AC 100V~115V

Equipped with "rubber lid" for wire hole

Remarks \* "WET-CABI" has no function of heating, cooling.

Allowance of Hygrometer \* Analogue type ±5% in 40~70% range ±5% in 30~40% and 70~90% range

### Notice

Read carefully attached  
[INSTRUCTION MANUAL] before using.

- \*Place cabinet where no direct rays is bathed, no air-conditioning heat is radiated, neither vapor nor moisture affects air.
- \*Humidity is controlled through alternation of absorbing and emitting inside air until the target humidity is acquired. DRY-CABI does not dehumidify rapidly.
- \*Ideal humidity is approx. 30-50%RH for Camera, Lens, Film, Tape and etc.
- \*Do not put on magnetizable goods like floppy within 30mm from magnet rubber edged door or drawer.
- \*Inside humidity increases when paper or cardboard is put. Wettish item should be installed after dried. Closing motion should be done quickly.
- \*Never install flammable medicine or the like.
- \*Pull out the plug mostly in winter when the outside humidity becomes under 30%.
- \*While DRY-CABI dehumidifies and prevents mold from growing, it has no ability to remove the mold.

### Notice & requests (Essential)


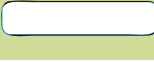




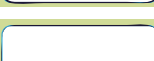


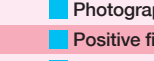
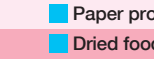
- \*The color of models may differ because of photographic and printing conditions.
- \*Check the measures(cabinet itself, placing spot & access route) before ordering.
- \*Consult carefully with dealer the ways of transportation, carriage, setting cost.
- \*Keep the whole packing materials, including cardboard, until placing the product and confirms it works normally.



## Prevent outbreak of the mold from humidity!!

Cameras, lenses, films, recording media, etc hate mold and humidity.

### Example of Goods Stored in DRY-CABI

	Lenses, Cameras, Microscopes, Endoscopes, Telescopes, Binoculars, Video cameras, Infrared cameras, Prism for lasers, Optical measurements apparatus, Films, Microphotographs, Batteries, Picture films
	Video tapes, Floppy discs, CD, DVD, MD, Cassette tapes, Papers for digital camera, Laser discs, Records, Microphones, Compact flash
	Semiconductors, Condensers, Resistances, PCB, Wafers, Filament, Batteries, Lithium, Nickel batteries
	Crystal oscillators, Gauges, Weight, Hygroscopic plastic
	Pharmaceutical products, Paint, Fragrance, Powdery materials, Chemical raw materials, Adhesive, Plastic resin, Labels for packing, Paper products, Silk screen printing
	Metal, Non-ferrous metal, Welding rods, Metal powdery product, Ultrafine powdery alloy, Die
	Seeds, Bulbs, Pollen
	Medicines, Test samples, Testing equipment, Radiation measuring machines, Various measuring equipment
	Stringed instruments, Wind instruments, Treasure troves, Swords, Art, Industrial art, books, Excavated articles
	Postage stamps, Chinese medicine, Painting and calligraphic works, Antiques, Superglue
	Seasoned dried sea weed, Coffee, Black tea, Green tea, Powdery cream, Spices, Rice crackers, Seasoning, Bread crumbs, Bread materials

### The Most Suitable Storing Humidity

Cameras, Lenses	→	Around 40~50% RH
Films, Magnetic tape (VHS, etc)	→	Around 40% RH
DVD, CD, FD, Recording Media	→	Around 40% RH
Photograph	→	Around 30~50% RH
Positive films, Negative films	→	Around 30~40% RH
Postage stamps, Currency	→	Around 30~40% RH
Noble metals, Jewel, Clocks, Swords	→	Around 30~50% RH
Paper products, Leather products	→	Around 50% RH
Dried food	→	Around 20~30% RH

Only TOLIHAN s Original Thermo Module Dehumidification System  
Made It Possible!!

Dry (Dehumidify) and  
Wet (Humidify) in one  
cabinet.

**WET-CABI**

Humidity preset range: 30~75% RH (+/- 5~7% RH)

#### Features

- WET-CABI controls inside humidity by high technology Thermo Module and its badge system in the range of 30~75% RH.
- Full automatic humidity control system.
- \*Humidification liquid is supplied with hand.
- Door with powerful magnet rubber seal maintains high air tightness.
- Easy to check inside humidity and temperature by equipped thermo-hygrometer.
- Power saving design, noiseless operation and vibration free.

#### Applications

- Deforming, Cracking and Static electricity Prevention of Electronics Parts.
- Storing Paper products, Art and industrial art, Lacquer wares, Ancient documents and Excavated articles
- Stringed instruments, Wind instruments, Woodwind instruments, Gagaku devices

#### WET-CABI for Guitar



HUW-601-G4

#### Humidor for Cigar



HUW-600-C

#### WET-CABI for Industrial Use Total 6 types

Control the humidity  
within 30~75% RH  
Small size 145L~  
large size 1,261L



TDC-290-AHU



TDC-650-AHU



TDC-1310-AHU

\* Original humidification liquid (For mold-prevention, antibacterial, deodorization, and antirust effects) is also available.

## Notice

Read carefully attached  
"Instruction Manual"  
before using.

- \*Place cabinet where no direct sun-ray is obtained, no air conditioning heat is radiated, neither vapor nor moisture affects air.
- \*Humidity is controlled through alternation of absorbing and emitting inside air until the target humidity is acquired. DRY-CABI does not dehumidify rapidly.
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- Inside humidity increases when paper or cardboard is put. Wet items should be installed after being dried. Closing motion should be done quickly.
- \*Never install flammable medicine or the like.
- \*Pull out the plug mostly in winter when the outside humidity becomes below 30% RH.
- \*While DRY-CABI dehumidifies and prevents mold from growing, it has no ability remove the mold.

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(Essential)

- \*The color of models may differ due to photographic and printing conditions.
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- \*Consult carefully with dealer the ways of transportation, carriage and setting cost.
- \*Keep the whole packing materials, including cardboard, until the complete installation.

**DINEX**  
Success of Our Customers = Our Success

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Since 1983

**TOLIHAN CORP.**

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