Ghibli-PRO Dry Cabinet

Moisture Sensitive Devices (MSDs), must be managed correctly because "a single mistake" on a tray or reel of MSD causes "negative impact on the entire production batch". Electronic components (like QFP, BGA or SOIC for example), LEDs and Printed Circuit Boards, when extracted from their original protective package, absorb humidity from the environment and during the soldering process the trapped moisture can vaporize and exert internal package stress. GHIBLI-PRO dry cabinets provides a "safe place" to temporary stock the MSDs removed from their original Dry Pack before soldering process. In fact the J-STD-033 tells that under 5% RH the Floor Life is congealed.

Tray Rack (optional)   **Alarm Box (optional)**   **Drylogger (included)**

Technical specifications
Humidity range: <5% RH guaranteed , typical 2% RH
Colour: Anthracite
Power supply: 230Vac
Structure: 1mm thick carbon steel with antistatic paint
Door: magnetic handles , magnetic sealers
Wheel: 4 antistatic 3" wheels, two of them with brakes
Grounding wire: 2mt long
ESD paint: $10^3 – 10^9 \Omega$

9265.302

DryLogger
(included in every cabinet)
Humidity: 1 to 95% RH resolution: 0.1%RH
Temperature: -20°C to +60°C, resolution: 0.1°C
ALARM for Max.humidity and Max temperature
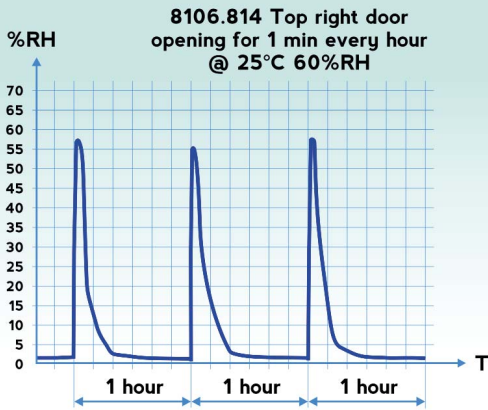(see page 77)

Advantages about GHIBLI-PRO

Easy use: It's plug and play, just connect it to the main supply without any settings and it will be stable at less than 5%RH (5%RH is guaranteed but the cabinets easily reach 2%). The dehumidifier units are always active and not controlled by any sensor. This avoid dangerous problems due to malfunction or drift of hygrometers.

Easy calibration: Inside every cabinet there is a portable Hygrometer (DryLogger **9265.302**) visible through the glass of the upper door. You can return it for calibration anytime without problems: the cabinet still works to the best.
The portable instrument DryLogger can measure RH & Temperature values in several points inside the cabinet, and can record H/T and transfer the data to PC for graphing and analyzing. Made for very low humidity measurement can be used also for applications outside the cabinets.

Modular design: The dehumidifier modules are easy extractable with only a screwdriver. This allow easy reparation and grant the long life of the cabinet, over 20 years, as long as the metal structure last. This is our green policy. Smart magnetic handles with key lock at every door. The front of the cabinet is flat.
2 years warranty

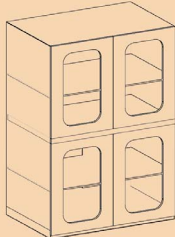8106.814 Top right door opening for 1 min every hour @ 25°C 60%RH
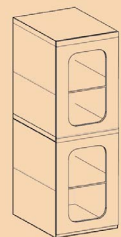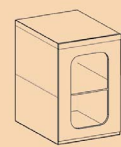
Data analysis

With the portable instrument DryLogger and the software LogManager supplied with every cabinet you can calculate the time intervals and percentage that exceed the 10%RH or 5%RH which leads to the estimation of the MSD floor life ("Floor Life" is the allowable time period after removal from a moisture barrier bag, dry storage or dry bake and before the solder process reflow).
Another typical data analysis is the graph of the door opening.

40°C Baking

Some cabinets version can do 40°C low baking process of SMD components.
At this temperature the reels are not damaged and can be afterwards inserted into the feeders of the pick and place without problems.

Code	8106.814	8106.807	8106.803	8106.834	8106.837
Model	Ghibli PRO 1400	Ghibli PRO 700	Ghibli PRO 350	Ghibli PRO 1400 (baking 40°C)	Ghibli PRO 700 (baking 40°C)
Capacity	1400L	700L	350L	1400L	700L
Ext.Dimensions (mm)	1160x767x1720	580x767x1755	580x767x895	1160x767x1720	580x767x1755
Shelves	5	5	2	5	5
Shelf Size (mm)	1094x606x18	510x606x18	510x606x18	1094x606x18	510x606x18
Average power	80W	80W	40W	80W without baking 580W with baking	80W without baking 330W with baking
Maximum power	500W	500W	250W	500W without baking 1500W with baking	500W without baking 1000W with baking
Weight	178kg	118kg	56kg	198kg	128kg

8106.840	Additional shelf 510x606x18 mm , Ghibli-PRO 700 and 350
8106.841	Additional shelf 1094x606x18 , Ghibli-PRO 1400
8106.850	Wheel Kit ESD

Tray rack

Professional tray rack made of stainless steel that can be placed on the trays of the Ghibli-PRO dry cabinets.

8106.866	GHIBLI-PRO - RACK 10 trays store
8106.583	Aluminium tray 495x570x12mm

ALARM BOX

With this option it's possible to set an alarm that become active when, after a certain period of time, humidity or temperature are above a predetermined maximum threshold. The Alarm Box has a warning light and a buzzer that can be silenced from a switch on the panel.

8104.856	Alarm Box for Ghibli-PRO cabinets