



## Less than 5% Relative Humidity as standard

- CE marked.
- ISO 9000.
- 2 year warranty as standard.
- Meets IPC/JEDEC J-STD-033.
- UKAS traceable calibration.

### APPLICATIONS

- Storing Surface mount Devices at low humidity to prevent moisture absorption and "pop corning" during the reflow solder process.
- Storing multi layer circuit boards.
- Low humidity storage of work in progress to prevent moisture absorption and oxidisation prior to completion of reflow solder process.
- Storing all moisture absorbing materials.
- Can be used as an alternative to baking components.
- With the heater option can be used as a slow bake oven at +40°C.



## Low Humidity SMD Storage Cabinets

# Drystor

## WHY USE DRYSTOR?

All plastic components absorb moisture and moisture ingress into SMD's and multi layer circuit boards is now more widely being recognised as a cause of product failure. Usually the failure is in the field and very costly.

Moisture absorbed into the components rapidly expands during reflow soldering, causing microscopic cracks in SMD's and delamination of multi layer boards. Commonly this is known as "pop corning". Other potential problems can be wire necking and internal corrosion, which is difficult to detect.

If components cannot be mounted within the manufacturer's specified time after opening a vacuum sealed package, storing them in the Drystor cabinet will solve the problem. For components that have been exposed for longer than the prescribed time Drystor can be supplied with a heating option, which complies with some device manufacturer's recovery specification of storage at +40°C for 190 hours.



# Drystor

MODEL:	DP1236HE	DP2463HE
Internal Size mm (HxWxD)	1800 x 805 x 850	1800 x 1610 x 850
Capacity (litres)	1236	2463
Doors	three	six
Shelves	six	six
Shelf Load Capacity	50kg	50kg
Air Consumption (litres/min)	20 (approx.)	40 (approx.)
Electrical Services	220/240 Volts, 13 Amps	220/240 Volts, 13 Amps
Compressed Air Services	Oil and water free	Oil and water free
Pressure	5-6 Bar	5-6 Bar
Construction	PVC pre coated steel	PVC pre coated steel
Colour	Goosewing Grey	Goosewing Grey
Approx. Weight	150kg	300kg

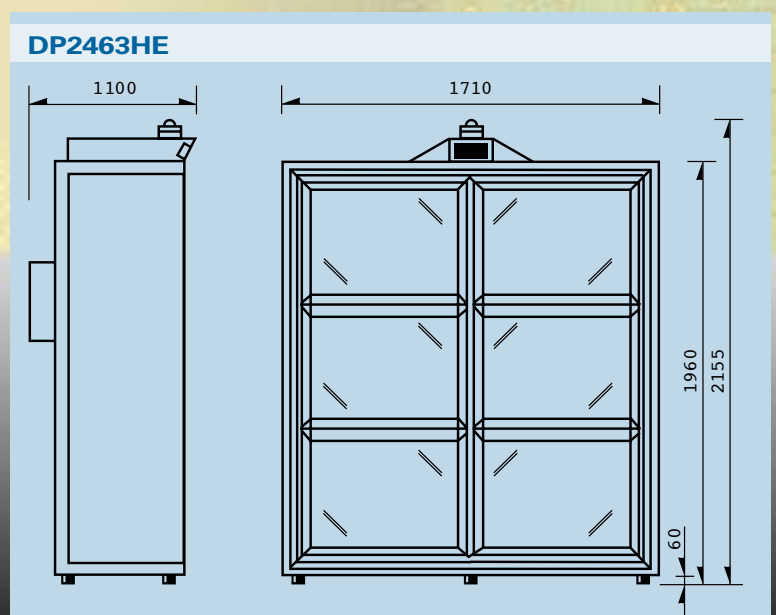
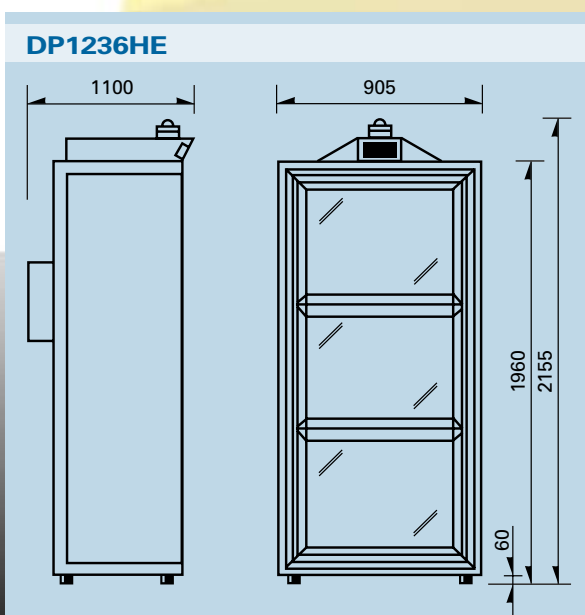
**OTHER VOLTAGES AVAILABLE.**

This literature is for general guidance only. It does not constitute recommendations, representations or advice and nor is it part of any contract. Our policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice.

**OPTIONS**

- Cabinet heating up to +40°C with thermostatic control, offering a temperature stability of  $\pm 2^{\circ}\text{C}$  and  $\pm 5^{\circ}\text{C}$  spatial.
- Cooling to +20°C to compensate for high external ambient conditions.
- RS232/RS422 or Ethernet communications.
- Dust free lockable castors.
- Additional shelves.
- Special storage arrangements e.g. reels or feeders.
- Standby air supply with automatic start up if air loss is detected.
- Data logging of humidity and temperature conditions.
- HEPA filters on air inlet.
- Nitrogen purge versions available for long term storage.

**STANDARD SIZES** Customised sizes also available on request.

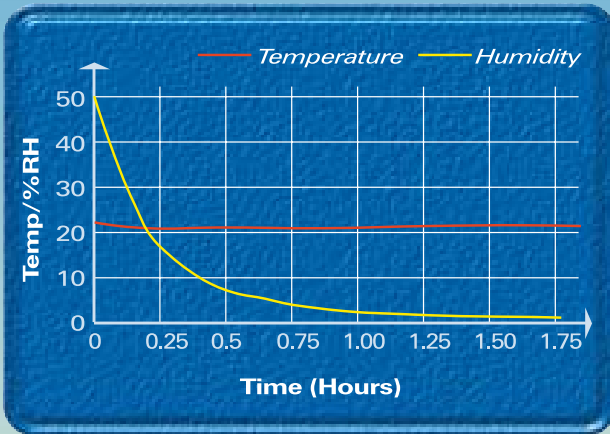


# Low Humidity SMD Storage Cabinets

## DRYSTOR DP1236HE PERFORMANCE

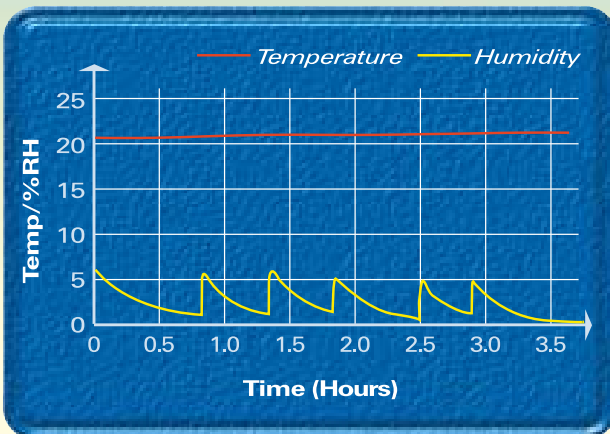
### Performance of DP1236HE from start at ambient.

Ambient conditions +22°C @ 60%RH.



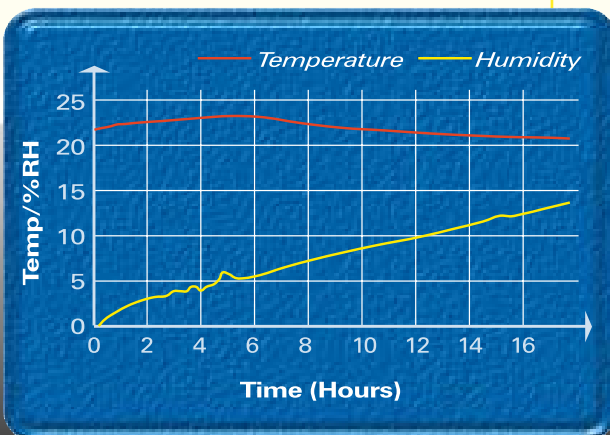
### Opening and closing door performance of

DP1236HE. Centre door opened 90° for 20 second intervals. Ambient conditions +22°C @ 60%RH.



### Performance following loss of air supply to

DP1236HE. Ambient conditions +22°C @ 60%RH.



## SERVICE AND SUPPORT

The Drystor cabinet is generally maintenance free apart from the occasional replacement of the desiccant filter cartridge in the compressed air drier (not covered by warranty). The interval between changes will be dependent on the quality of the compressed air supply to the drier but is usually no less than twelve months.

Should service or support be required Design Environmental can provide it in the UK or world wide by our own service engineers or by trained group service agents. Please ask for further details.

If required preventative maintenance contracts are available, along with calibration of temperature and humidity to UKAS traceable standards.

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