





Palbam Class developed its first Desiccator Cabinets for the Semiconductor Industry. Due to the demands of this industry all the cabinets are manufactured from the cleanest materials available.

# DESICCATORS

## Unique Stainless Steel Solutions



Most manufacturers offer stainless steel accessories for their Desiccators. Palbam Class uses only Stainless Steel.

All modular designs – and “plug and play”

If you have a product which requires protection from: **Particles + Moisture + Oxygen** then Palbam Class offers you unique solutions.

Nitrogen is the standard medium for contamination-free storage because it is relatively inert—it neither reacts with stored materials nor carries moisture – and because it can be isolated and purified relatively inexpensively.

Palbam Class Desiccator cabinets are set up so that an appropriate flow of nitrogen forces out all moisture- and contamination-laden air. Because nitrogen has a lower specific gravity than air, it is introduced into the upper section of the desiccator; the heavier air is then purged out of the bottom.

If you require custom designed Desiccators, Palbam Class has an Engineering and Design team which is recognized worldwide as a leader in this field.

## BENCH TOP N2 DESICCATOR



Palbam Class Bench Top N2 purge Desiccator Cabinets cut nitrogen expenses by up to 80%. Automates clean, dry benchtop storage eliminating moisture & oxygen related degradation and optimizing yields. Ideal for semiconductor components, biological and pharmaceutical samples, and other sensitive materials. Fully integrated turnkey system takes 30 seconds to install.

Desiccator has built in RH% sensor and display panel - allowing user to monitor realtime relative humidity levels within the cabinet. The easy to use control panel allows user to enter the required RH% level - the cabinet then regulates N2 input to ensure the desired RH% levels are maintained. Fabrication materials: stainless steel 304 with electropolished finish and static dissipative PVC window.

### Safety Factor

Many uncontrolled N2 cabinets rely on continous flow of N2 into the cabinet. This N2 is also being continously leaked into the cleanroom atmosphere - with the potential risk that this implies to the safety of operators. Palbam Class N2 desiccator cabinets minimize the N2 usage and therefore minimize the N2 leakage into the cleanroom atmosphere.

Product	LxWxH (mm)	LxWxH ( " )	Cat. No.
Bench Top N2 Desiccator	600x400x400	24x16x16	<b>UCD-604040</b>
Bench Top N2 Desiccator	600x400x600	24x16x24	<b>UCD-604060</b>
Bench Top N2 Desiccator	800x500x500	32x20x20	<b>UCD-805050</b>
Bench Top N2 Desiccator	800x500x800	32x20x32	<b>UCD-805080</b>

Product	LxWxH (mm)	LxWxH ( " )	Cat. No.
Shelf solid for Desiccator UCD6040	600x400	24x16	<b>DS-6040</b>
Shelf solid for Desiccator UCD8050	800x500	32x20	<b>DS-8050</b>

Product	LxWxH (mm)	LxWxH ( " )	Cat. No.
Desiccator Stand - 2 units			<b>DSTAND-604040-2</b>
Desiccator Stand - 3 units			<b>DSTAND-604040-3</b>



The Bench Top Desiccator UCD-604040 can be used as a single unit on a table top or shelf or as units of 2 or 3 in dedicated shelf units.

## N2 DESICCATORS - General storage



The ideal product for Ultraclean low humidity storage. Turnkey product. Includes automatic control system allowing manual or automatic purging. The automatic trickle purge saves on inert gas input. Door sensors activate when doors opened to close purging to prevent gaseous escape and wastage. Door closing activates high purge to reduce humidity levels fast. All plumbing integrated. Adjustable shelving. Modular design. Fabrication material : 304 stainless steel with electropolished finish.



Includes in-line gas filter and ultraclean valves.

Product	LxWxH (mm)	LxWxH ( " )	Cat. No.
Desiccator Cabinet - 1 Chamber	820x490x1700	32x19x67	PCSE0902
Desiccator Cabinet - 2 Chamber	820x490x2000	32x19x80	PCSE0801

## N2 DESICCATOR CABINET - FOUP storage



Ultraclean N2 purging cabinet - Dessicator, is fully automated allowing full control of N2 input according to requirements. This is the ideal solution for low humidity storage. This unit is specifically designed for four 300mm FOUP pods. This cabinet is typically used to store pre purged FOUP pods for long periods of storage. Fabrication material : 304 sst, electropolished. High purity materials.

Includes in-line gas filter and ultraclean valves.

Product	LxWxH (mm)	LxWxH ( " )	Cat. No.
N2 Desiccator Cabinet - FOUP Storage	683x580x2130	27x23x84	PCSE0605