


## **MODULA CLEAN ROOM**

### **THE STORAGE SYSTEM FOR CLEAN ROOMS**

- ENSURES THE MINIMUM QUANTITY OF PARTICLES IN THE AIR**
- IDEAL FOR THE PHARMACEUTICAL AND FOOD SECTORS**

  
**MODULA**  
LIFT



# MODULA CLEAN ROOM

Most semiconductor manufacturers, hospitals and companies operating in the chemical, electronic and pharmaceutical industries require storage systems that can operate within clean rooms, which can ensure that the class of the clean room itself is not compromised and can prevent the contamination of the material stored.

Whether storing sterile instruments for operating theatres, or components sensitive to dust in the production of semiconductors, the Modula solutions for clean rooms offer conditions that meet the ISO 14644 standard and classes 7 and 8 for clean rooms.

To maintain the lowest quantity of particles in the air, two elements must be addressed: limiting the production of dust by the automated (or vertical) while operational and reduce dust deposits within the clean room on the surface of the warehouse itself.



**SOLUTION COMPLIANT  
WITH STANDARD ISO 14644,  
MEETS CLASSES 7 AND 8**

# TECHNICAL SPECIFICATIONS

**Height: from 2,900 mm to 16,100 mm**

**Unit height increment: 200 mm**

**Tray storage pitch: 25 mm**

**Tray width: from 1,500 mm to 4,100 mm**

**Tray depth: 654 mm - 857 mm**

**Net tray payload: 250 - 500 - 750 - 990 kg**

**Total net payload: from 40,000 kg to 80,000 kg (depending on model and configuration)**

**Total gross unit payload: from 50,000 kg to 90,000 kg (depending on model and configuration)**

**Throughput: up to 120 trays per hour (depending on the configuration)**

**Operator interface: industrial console with 10.4" touchscreen technology**

**Type of bay: internal**

**Maximum product height: 695 mm (bay S)**

## MODULA CLEAN ROOM CAN BE INTEGRATED WITH:

### **Modula WMS**

Software that can be combined with a Modula VLM or used standalone, to manage all warehouse operations.

### **Modula OPTIONS**

To draw the maximum benefit from the Modula automated warehouse and increase the productivity of the proposed solution, a full range of dedicated options is available.

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# CLEAN ROOM MODELS

## ME - MED



Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
ME25	1,500	654	45/70/120	250	1,917x2,556	1,917x3,246
ME25D	1,500	857	45/70/120	250	1,917x3,165	1,917x4,058
ME50	1,500	654	45/70/120	500	1,917x2,556	1,917x3,246
ME50D	1,500	857	45/70/120	500	1,917x3,165	1,917x4,058
ME75	1,500	654	70/120	750	1,917x2,556	1,917x3,246
ME75D	1,500	857	70/120	750	1,917x3,165	1,917x4,058
ME1000	1,460	654	70/120	990	1,917x2,556	1,917x3,246
ME1000D	1,460	857	70/120	990	1,917x3,165	1,917x4,058

## MA - MAD



Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
MA25	1,900	654	45/70/120	250	2,317x2,556	2,317x3,246
MA25D	1,900	857	45/70/120	250	2,317x3,165	2,317x4,058
MA50	1,900	654	70/120	500	2,317x3,165	2,317x4,058
MA50D	1,900	857	70/120	500	2,317x2,556	2,317x3,246
MA75	1,900	654	70/120	750	2,317x2,556	2,317x3,246
MA75D	1,900	857	70/120	750	2,317x3,165	2,317x4,058
MA1000	1,860	654	120	990	1,936x2,556	1,936x3,246
MA1000D	1,860	857	120	990	1,936x3,165	1,936x4,058

## MC - MCD



Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
MC25	2,500	654	45/70/120	250	2,917x2,556	2,917x3,246
MC25D	2,500	857	45/70/120	250	2,917x3,165	2,917x4,058
MC50	2,500	654	70/120	500	2,917x2,556	2,917x3,246
MC50D	2,500	857	70/120	500	2,917x3,165	2,917x4,058
MC75	2,500	654	70/120	750	2,917x2,556	2,917x3,246
MC75D	2,500	857	70/120	750	2,917x3,165	2,917x4,058
MC1000	2,460	654	120	990	2,917x2,556	2,917x3,246
MC1000D	2,460	857	120	990	2,917x3,165	2,917x4,058

### MX - MXD



Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
MX25	3,100	654	45/70/120	250	3,517x2,556	3,517x3,246
MX25D	3,100	857	45/70/120	250	3,517x3,165	3,517x4,058
MX50	3,100	654	70/120	500	3,517x2,556	3,517x3,246
MX50D	3,100	857	70/120	500	3,517x3,165	3,517x4,058
MX75	3,100	654	70/120	750	3,517x2,556	3,517x3,246
MX75D	3,100	857	120	750	3,517x3,165	3,517x4,058
MX1000	3,060	654	120	990	3,517x2,556	3,517x3,246
MX1000D	3,060	857	120	990	3,517x3,165	3,517x4,058

### ML - MLD



Model	Tray width (mm)	Tray depth (mm)	Tray wall height (mm)	Net tray payload (kg)	Unit footprint with INTERNAL bay (Width x Depth mm)	Unit footprint with EXTERNAL bay (Width x Depth mm)
ML25	4,100	654	70/120	250	4,517x2,556	4,517x3,246
ML25D	4,100	857	70/120	250	4,517x3,165	4,517x4,058
ML50	4,100	654	120	500	4,517x2,556	4,517x3,246
ML50D	4,100	857	120	500	4,517x3,165	4,517x4,058
ML75	4,100	654	120	750	4,517x2,556	4,517x3,246
ML75D	4,100	857	120	750	4,517x3,165	4,517x4,058
ML1000	4,060	654	145	990	4,517x2,556	4,517x3,246
ML1000D	4,060	857	145	990	4,517x3,165	4,517x4,058