



DPB/DFLH

Dynamic Pass Boxes and Dynamic Floor Label Hatches



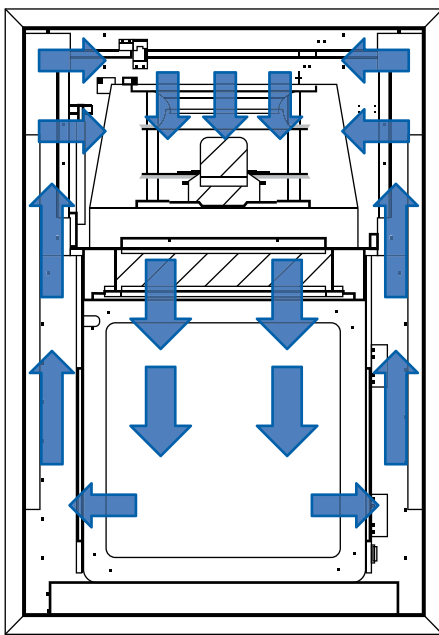
Dynamic Pass Boxes and Dynamic Floor Label Hatches are aseptic architectural systems utilized to prevent contaminants from leaking into aseptic suits. These are utilized for aseptic transfer of materials into and out from the critical process environments.

Key Features

- Easy to clean design.
- HEPA knife-edged gel-sealed main filter.
- Sentinel™ microprocessor with audio/visual alarms for down flow velocity and filter loading.
- Red/green indicators for all operational parameters.
- Emergency stop button
- Food grade FDA approved, USP Class 6 compliant air tight seals.
- Toughened safety glass
- Air-tight pharmaceutical grade latches with electromagnetic locks.
- Stainless steel hinges
- Fully rounded interior corners with enhanced perforated grill system for full down flow in critical corners.
- Port for particle counter probe
- Port for upstream PAO concentration
- Pressure tested as per ISO standards



Air flow Pattern



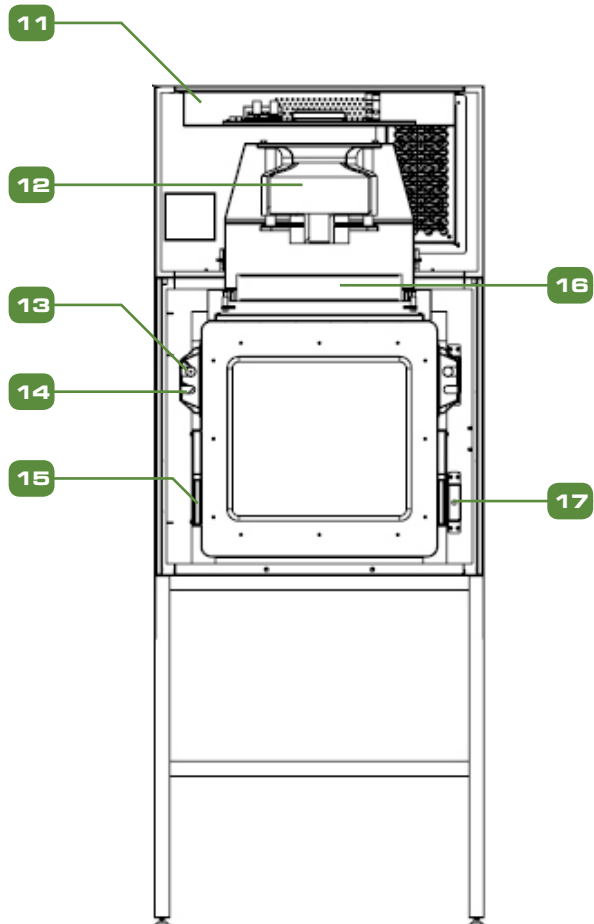
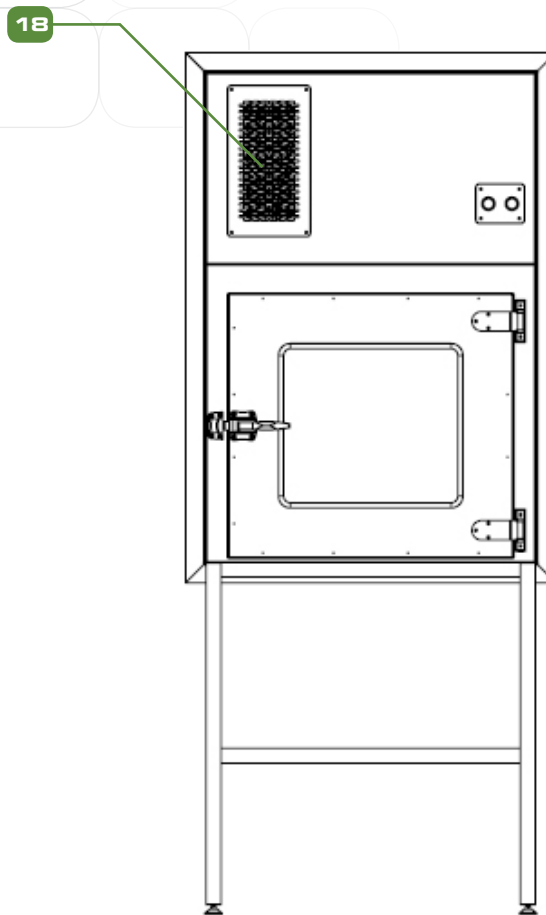
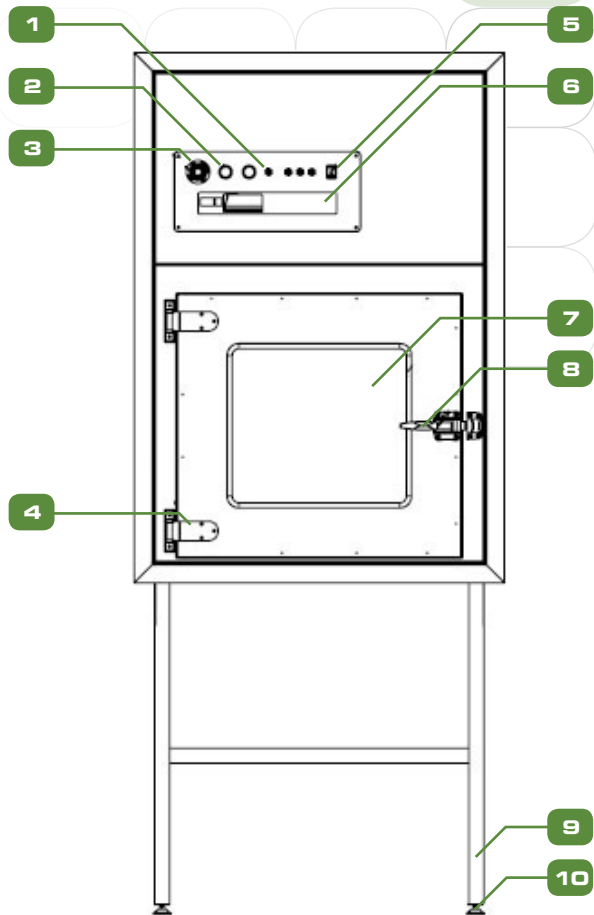
During operation, room air is drawn through the top of the DPB/DFLH via a polyurethane pre-filer G4 grade in the dirty side of cleanroom with 85% arrestance, trapping larger particles and increasing the life of the main filter.

The downflow air is then forced evenly through the H14 knife edge gel sealed filter with > 99.995% efficiency, resulting in a unidirectional stream of clean air projected vertically over the internal work zone. All airborne contaminants are flushed and diluted, resulting in a particulate-free mobile work environment.

The purified air then recirculated via a G4 filter before it passes again through the H14 knife-edged gel-sealed filters.

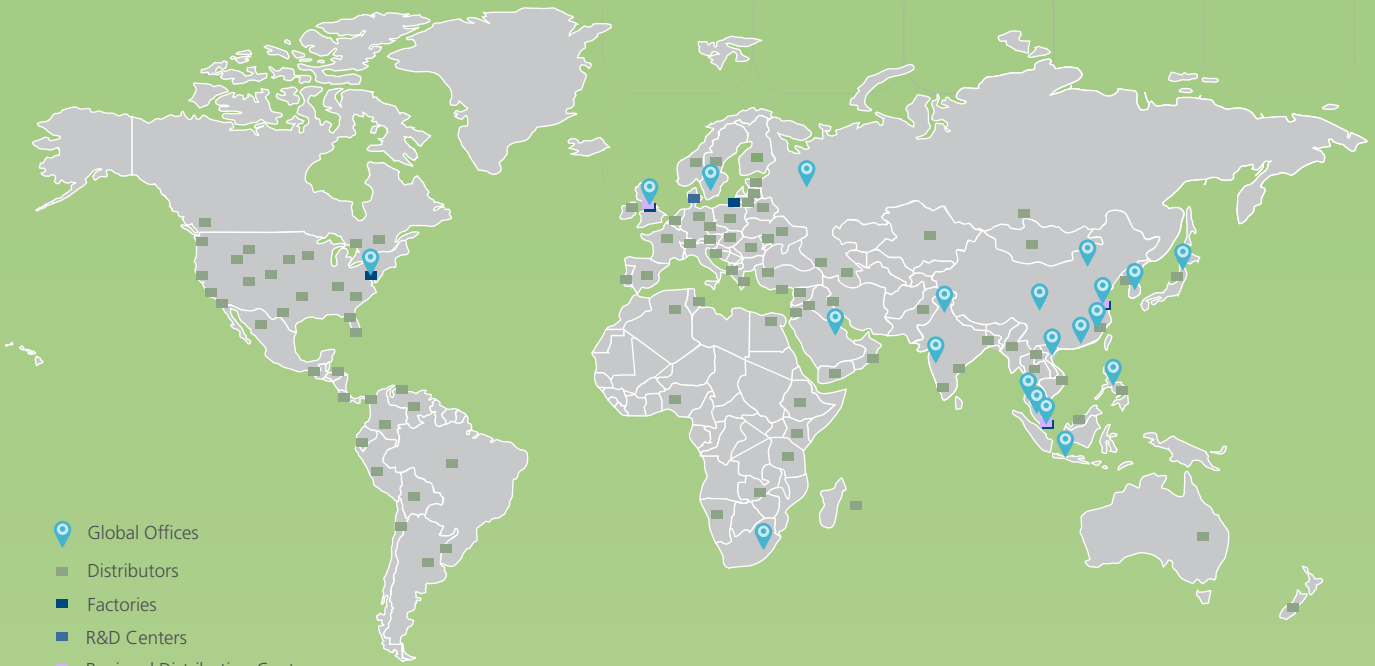
A nominal filter face velocity of 0.45 m/s (90 fpm) ensures that there are sufficient number of air changes within the enclosed area of the laminar flow unit in order to maintain cleanliness. The Sentinel™ microprocessor monitors the airflow and provides alarm when the airflow is less than the defined lower fail point and higher than the upper fail point.

Product Code	Material of Construction	Internal Width	Internal Depth	Internal Height	Door Opening	Base	Onboard Lighting	UV Light	Electrical Code
DPB and DFLH	A - EG Steel Exterior and Interior with SS 304 base.	Dynamic Pass Boxes (DPB)			1 - Straight through 2 - L-Shape 3 - Three way	1 - With 2 - Without	1 - With 2 - Without	1 - With 2 - Without	1 - 220-240 VAC 50/60 Hz 2 - 110-130 VAC 50/60 Hz 3 - 100-110 VAC 60/60 Hz
		915 mm	915 mm	915 mm					
		600 mm	600 mm	600 mm					
	S1 - Full SS 304 with interior rounded corners.	610 mm	610 mm	915 mm					
		610 mm	610 mm	760 mm					
		610 mm	610 mm	610 mm					
	S2 - Full SS 316 L with interior round corners.	450 mm	450 mm	450 mm					
		Dynamic Floor Label Hatches (DFLH)							
		1500 mm	1500 mm	1500 mm					
		CMB - Other combinations	900 mm	900 mm					
900 mm	900 mm		900 mm						



1. PAO Port
2. Indicator Light Status
3. Push Emergency Button
4. Stainless Steel Hinge Door
5. Power Switch
6. Sentinel Panel
7. Viewing Glass
8. Stainless Steel Handle
9. Support Stand
10. Stainless Steel Levelling Feet
11. Removable Panel for Electrical Access
12. Blower
13. UV Lamp
14. Fluorescent Lamp
15. G4 Fan Filter
16. H14 HEPA Filter
17. Electromagnetic Lock
18. Air Inlet

ESCO GLOBAL NETWORK



- Air Shower
- Aseptic Containment Isolator (ACTI)
- Ceiling Laminar Airflow Units
- Cleanroom Transfer Hatch
- Containment Barrier Isolator (CBI)
- Downflow Booth (DFB)
- Dynamic Floor Label Hatch
- Dynamic Pass Box
- Evidence Drying Cabinet
- Garment Storage Cabinet
- General Processing Platform Isolator (GPPI)
- Laminar Flow Horizontal Trolley
- Laminar Flow Straddle Units, Single and Double Laminar Flow Vertical Trolley
- Pass Box
- Soft Wall Cleanroom
- Sputum Booth
- Ventilated Balance Enclosure (VBE)
- Weighing and Dispensing Containment Isolator (WDCI)

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