

HEPA Filters, DTM, RPM, FU w RPM

HEPA Filters Installation, Storage and Handling Guide

CAUTION: Read First HANDLE with Extreme Care

HANDLING, TRANSPORTATION

HEPA filters are made of micro fibreglass Paper which makes the filter extremely fragile, soft and brittle like glass.

NO throwing, no stacking, pushing or forcing, sitting, stepping, shaking, dropping or impact of the filter. This may cause the media to crack or tear. Avoid and DO not touch the face guard, the media may puncture or crack.

Although the filter is enclosed in Aluminium or metal frame, handle and install carefully, they might look rigid but any excessive force, push and force or impact at frame sides will cause bending, tear and crack the filter media.

Installation should be handled and carried out by experienced personnel.

STORAGE

Store filters in safe flat place .
Keep indoor, clean, dry cool place to prevent water damage.
Preferred Temperature -17° to 30°C
Filter to keep in Box and sealed.
Recommended shelf life up to 5years
Do not overstack, stack max 3 carton layers in correct orientation properly.

Disposable (DTM) & Replaceable Ceiling Modules (RPM)

Ceiling Modules products come with collar for flexible duct installation which is commonly used in cleanrooms, isolation wards and operating theatres. They are meant to be installed on T-grid. Therefore the top ceiling height is recommended to have clearance min 900mmH or ideally with catwalk access to facilitate installation and replacement and prevent damage to the DTM HEPA during Installation. RPM is prone less damage as filter is replaced by room side.

1. HEPA DTM (Disposable Terminal Modules) with OD10" (OD250mm) Round Collar, T-grid

2. HEPA RPM (Replaceable Module) RPM TR 12"/10" collar, HEPA Gasket type, T-grid
RPM TD 12"/10" collar, w Diffuser (Ceiling suspended or Tgrid)
RPM TH 10"collar, HEPA Gel, T-grid (replaced with RPM TR gasket)

Module Installation

RPM or replaceable module comes with separate HEPA filters, the module is installed first on T-grid or suspended by wire. The HEPA filter can be easily installed later on from room side.

The gasket at the bottom of the module

is to seal the ceiling and room side. The sides at top of the module is to seal/ applied with good quality silicone or equivalent to prevent falling dust from above false ceiling.

Filter Installation

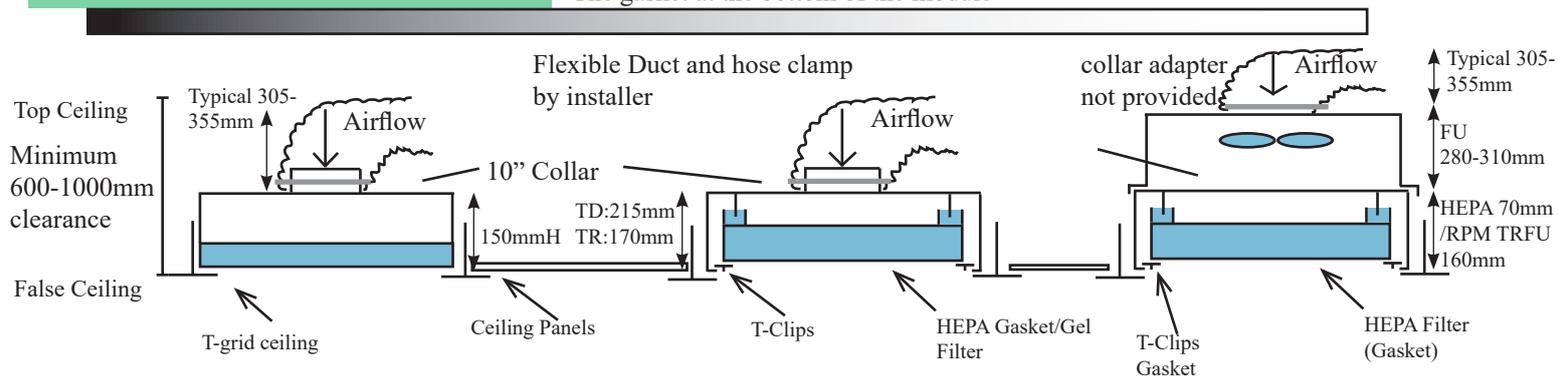
The upstream/air in of the HEPA filters is enclosed with Rubber Gasket or Gel to cut into the knife edge of the module to prevent leaks.

1. VERY carefully hold only the sides of frame and slot in HEPA filter and avoid touching the media face
2. Secure by slotting in the T-clips

As the filter is installed from the room side, the installation and replacement of HEPA filter can be completed in 15minutes. They are suitable for isolation wards, hospital sterile locations and cleanrooms ISO 5, 6, 7, 8 environments for ease of replacement.

Minimum Ceiling Clearance: 600mm
FFU (700mm)

Recommended Ceiling Clearance: 1000mm or catwalk access



Package Details

H4DH

1. DTM HEPA w 10" Collar

RPM TR (gasket)
OR RPM TH (gel) module
w 12" or 10" collar
x1 HEPA filter (or HEPA Gel)
x4 T-Clips (to secure filter)

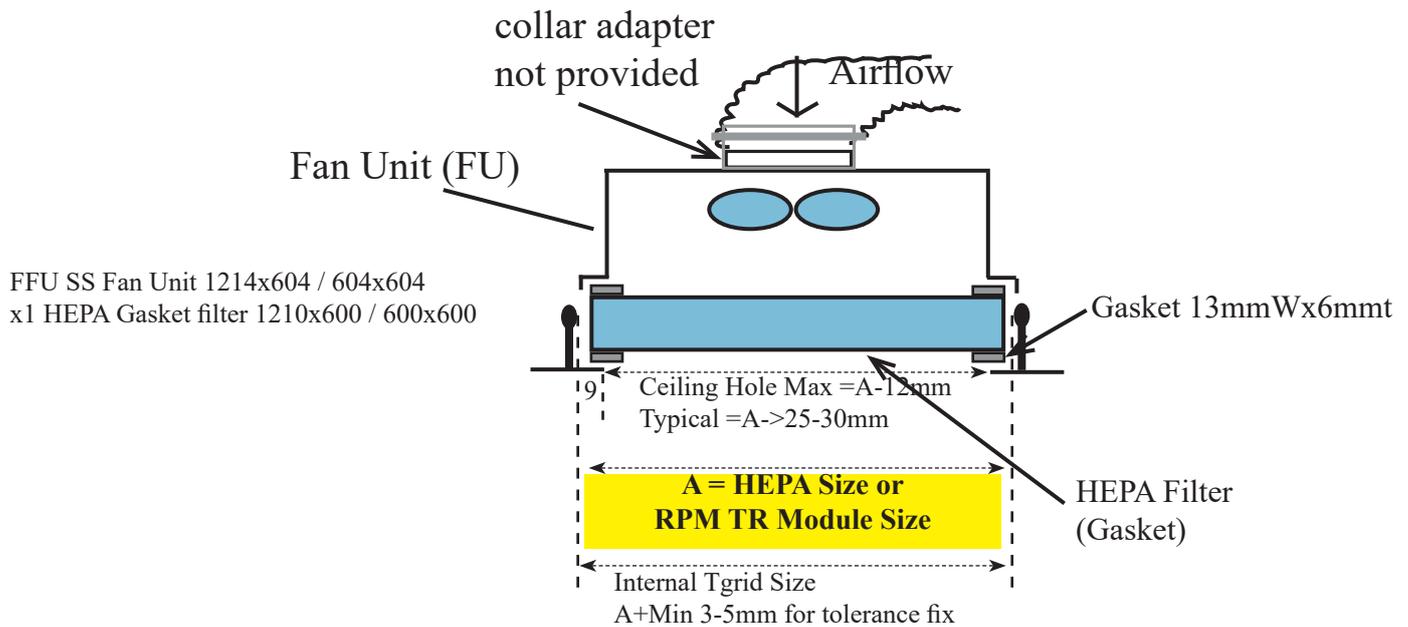
FFU SS Fan Unit
RPM TR Module NO Collar
x1 HEPA Gasket filter
x4 T-Clips (to secure filter)

TEST SPECIFICATIONS and QUALITY ASSURANCE:

The HEPA filters undergone extreme careful manufacturing and upon completion, they are quality, visually checked and leak tested. HEPA filters conforming to leak tests are labelled with the specifications before packing and shipment.

We verified and certify that no Physical and Filter Leaks are detected on HEPA filter upon testing and it conforms to standards traceable to IES RP-CC-001,CC-007,CC-034,NSF49 or EN1822

Guide: FFU HEPA, RPM TR, DTM Dimensions and Ceiling sizes



For T-grid Ceiling and Sizes Guide

In general cleanroom Tgrid ceiling profiles has L sitting of more than 30mm each side, thus the tolerance is higher, more sturdy. Sizes may vary and can be requested. For office common Tgrid modules used, sizes below can be guide.

Standard FFU w HEPA minipleat 70mmt or DTM Disposable Terminal Modules
For FFU: The replacement require access both sides to lift up Fan Units. 1195x595 and 595x595
HEPA filters can be used to fit Typical Office Tgrid 25mmWx 38mm, L=9mm each side

For DTM: The replacement require access to collar /flexible above.

A:	Ceiling Hole	Min Internal Tgrid Size	Type Tgrid 25mmW
1210x600	1185x575	1213x603	Imperial
600x600	575x575	603x603	Imperial
1195x595	1200x600	1197x597	Metric
1210x600	1220x610	1207x607	Metric

Standard FFU w RPM TRFU or RPM TR (Highly Recommended)

Suitable with flat ceilings, they can fit typical metric or imperial office grid 25mmW with slight adjustment each side. The standard factory sizes will ensure fast turnaround of factory HEPA filters as the tolerances are already sorted to ensure they can be replaced within 1 minutes

A:	Ceiling Hole	Min Internal Tgrid Size
1201x591	1176x566	1204x594
591x591	566x566	594x594

Note: The information is purely for reference, please do the necessary checks from necessary vendor for the informations as there are wide range of ceiling types and selections in which dimensions will vary

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