

## DUCTLESS FUME HOOD



### KEY FEATURES

#### Construction

- Chemical-resistant interior lining (Mild Steel stainless steel, or Polypropylene)
- Durable, easy to clean, and resistant to corrosion.
- Internal Lining of Fire Retardant Material ( FRP / PRL ) .

#### Ductless Operation

Eliminates the need for external exhaust systems by filtering contaminated air and recirculating clean air back into the workspace.

#### Advanced Filtration System:

Incorporates activated carbon filters for gases and chemical vapors and HEPA filters for particulates and aerosols, ensuring safe and clean air.

#### Work Area

- Spacious, flat surface for experiments having Skirting Granite on base 19mm
- SS Sink and taps are provided for washing and discards
- Baffle Arrangement for ensuring effective capture of vapours, even heavy gases (low level) or light gases (upper level)

#### Adjustable Sash Window

- Vertical or horizontal sliding glass sash for user protection and access.
- Acts as a protective barrier between the user and chemical
- Protects the user from harmful chemical fumes, vapours, and gases

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#### Portable & Flexible Design:

Compact and self-contained, allowing easy relocation and installation without complex ducting.

#### Energy Efficient:

Reduces HVAC load and saves energy by recirculating filtered air.

#### Lighting

- Bright fluorescent/LED lighting isolated from airflow for safety
- Glare-free and shadow-free illumination.

#### Advantages

- No duct installation required
- Energy-efficient and environment-friendly
- Portable, compact, and easy to relocate
- Ensures operator and product safety
- Simple maintenance and low operating cost

## TECHNICAL MATRIX

Model No	PTE DFH814 A	PTE DFH814B	PTE DFH814 C	PTE DFH814 D	PTE DFH 814 E
<b>Working Table Size</b>	2' x 2'	3' x 2'	4' x 2'	5'x2'	6' x 2'
<b>Inner Size (WxDxH)</b>	2' x 2' x 3'	3' x 2' x 3'	4' x 2' x 3'	5'x2'x3'	6' x 2' x 3'
<b>No. Of Motor/Blower</b>	1	1	1	1	1
<b>Illumination</b>	1 x 20 w	1 x 30 w	1 x 40 w	1 x 40 w	2 x 40 w
<b>MOC</b>	Mild steel DulypowderCoated / Stainless Steel / Polypropylene				
<b>Type</b>	Floor Model/Table Top				
<b>Motor Blower</b>	Centrifugal motor Direct Drive Blower upto 0.5-2 HP				
<b>Working Table Top</b>	Fitted with acid/alkali resistant Black granite Stone and SS sink fitted with swan type water tap.				
<b>Baffle arrangement</b>	Two layer for exhaust heavy & mild fumes				
<b>Filtration System</b>	Filtration System Activated Carbon + HEPA Filter (Optional ULPA)				
<b>Filter Efficiency</b>	Filter Efficiency HEPA: 99.97% @ 0.3 µm / ULPA: 99.999% @ 0.12 µm				
<b>Air Flow Type</b>	Recirculatory Non Ducted				
<b>Average Face Velocity</b>	0.4 to 0.6 m/s				
<b>Front Door</b>	Vertical rising sash counter-balanced with pulley and counterweight system. Float Glass sash (4 mm thick). Smooth and light sash operation. Clear openable height = 700 mm				
<b>Standard Accessory</b>	Gas/Air cock fitted with 15/5 amp socket with switches				
<b>Electric Supply</b>	AC 230V , 50/60Hz				

## OPTIONAL ADD ONS

- Airflow monitor / alarm (for low face velocity)
- Sash position sensor with alarm
- Emergency power off (EPO) switch
- Horizontal or combination sash
- Motorized sash with auto-closing mechanism
- Acid/corrosive storage cabinet (polypropylene lined)
- Emergency eye-wash or safety shower
- FRP / PRL Inner Lining