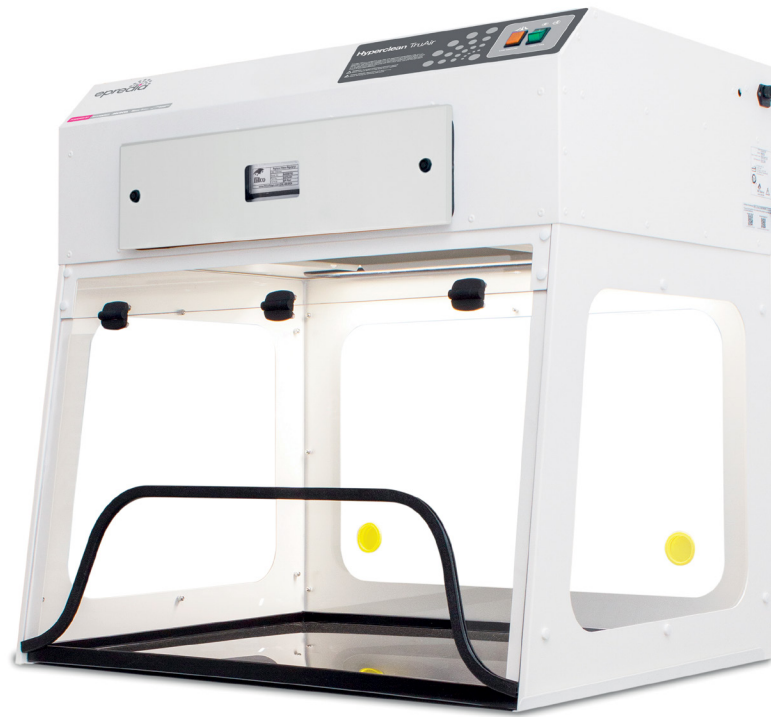# Innovation in air purification
Dependable air quality

- Helps protect the operator from fume and particle hazards

- Easy to change filters

- Improved filter clamping eliminates by–pass leakage

- Low airflow alarm

epredia

Hyperclean TruAir™
Ductless Fume Hoods

Epredia Hyperclean TruAir™ ductless fume hoods are a series of high-efficiency products designed to protect the user and the environment from hazardous vapors generated on the work surface. The product line features filtration technology that helps create a safe environment over the widest range of applications in the industry.

Product Features

1. **Filter I.D. Window:** A strategically placed front cover window shows the installed filter part number and installation date for convenience and to encourage timely filter replacement.

2. **Hinged Front Sash:** When closed, the cabinet sash protects the contents from inadvertent external contact, and better isolates the air within. The sash is easy to open and close.

3. **Control Panel:** Electronic controls and displays include switches for the blower and low airflow alarm.

4. **Steel Support Frame:** The chemical resistant epoxy coated steel frame adds mechanical strength. The pre-filter can be changed while the unit is operating to prevent operator exposure to chemical vapors.

5. **Electrostatic Pre-Filter:** The 99.5% effective electrostatic pre-filter (for particulates 3 microns and larger) is accessible from inside the chamber to contain the release of any particulates that it traps.

6. **Pass Through Ports:** Electrical cords and cables are safely routed into the cabinet through ports on the back and side walls.

7. **Color:** The cabinet is white; side and back panels are clear.

8. **Airflow Alarm:** A continuous air velocity monitoring system alerts the operator upon unacceptable values.

9. **Internal Manual Speed Controller:** Authorized personnel may set the centrifugal fan motor speed as desired.

10. **Stand:** Optional mobile cart with locking casters.

11. **Work Surface:** The internal work surface can be fitted with an optional polypropylene tray (see Accessories).

12. **Filter Door Key:** Filter access keys prevent unauthorized removal or accidental exposure to dirty filters.

Other Features

360 Degree Visibility: Clear back and side panels allow ambient illumination into the chamber and provide users with an unobstructed view of its contents.

Standards Compliant: Performance specifications and construction meet OSHA, ANSI and relevant international standards for operator safety.

Construction: All models feature metal construction. See selection chart for specifications and dimensions. Available in 120 V, 60 Hz or 230 V, 50 Hz models.

Applications

- Histology
- Forensics
- Compounding
- Enclosing balances, microscopes, and robotic equipment
- Educational
- Microscopy
- Mobile and classroom demonstrations
- Pharmaceutical
- Powder fingerprinting
- Powder weighing
- Sample prep work
- Soldering
- Solvent cleaning and welding
- Veterinary and dental work

Ductless Technology: The Eco–Friendly Choice

Advanced carbon filtration technology offers a safe, high performance alternative to conventional ducted fume hoods for a broad range of applications.

- **Environmental Benefits:** Epredia ductless fume hoods isolate and trap chemical vapors to help prevent ecological impact through release into the environment

- **Versatile:** Each filtration system is selected for its specific application. Carbon filters are available in several configurations for use with vapors or organic solvents, acids, mercury and formaldehyde. HEPA filters can add to biological safety

- **Easy to Install:** The ductless fume hood is self-contained and does not require venting to the outside. Many units are portable and may be moved from one location to the next with minimal down-time and without filter changes. Set up, operation and filter maintenance are straightforward

- **Energy Efficient:** Because filtered air is returned to the room, no demands are required of the facility HVAC capacity for make-up air

- **Cost Effective:** Facility ductwork, HVAC and construction costs are eliminated

- **Safe to Use:** Cabinet airflow and face velocity protect users from incidental exposures to fumes

- **Self testing:** Electronic airflow monitoring assures continuous safety

Product Features

The Epredia Performance Advantage

Each Epredia fume hood includes features expressed through sound design and certified quality construction. Options and accessories add functional performance to meet specific applications.

- **Professional Quality**
  Epredia fume hoods comply with current technical and safety regulations

- **Optimum Filtration**
  Epredia filters offer a range of options for high performance

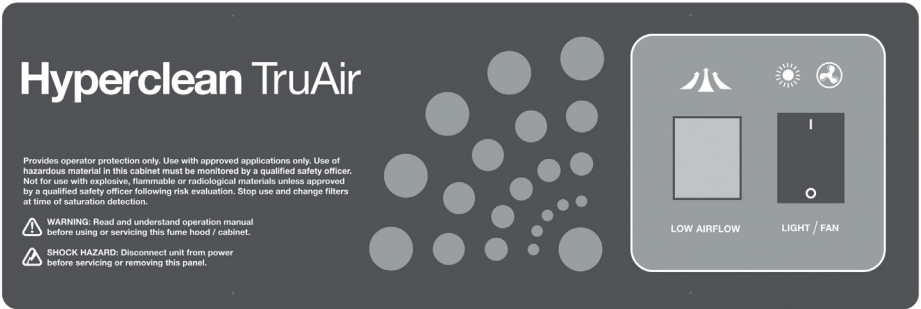- **Industrial Components**
  The cabinet frame and work surfaces are durable and chemically resistant

- **Reliability**
  Internal systems are isolated from fumes, extending product life

Hyperclean TruAir

Provides operator protection only. Use with approved applications only. Use of hazardous material in this cabinet must be monitored by a qualified safety officer. Not for use with explosive, flammable or radiological materials unless approved by a qualified safety officer following risk evaluation. Stop use and change filters at time of saturation detection.

⚠ WARNING: Read and understand operation manual before using or servicing this fume hood / cabinet.

⚠ SHOCK HAZARD: Disconnect unit from power before servicing or removing this panel.

LOW AIRFLOW   LIGHT / FAN

Control panel includes on/off switch and low airflow alarm.

Filtration Technology

Epredia filtration technology consists of a pre-filter and main filter to create a combination of chemical and physical architecture customized to each application. The mechanical design enhances safety, convenience and overall value.

- The electrostatic pre-filter is accessible from within the cabinet
- A patented filter clamping mechanism allows for the filter to be easily installed and ensures an even seal at the filter peripheral face at all times to prevent bypass leakage
- The filter chamber prevents contaminated air from contacting internal cabinet mechanisms
- The main filter number and installation date are displayed in a front-access window

The Epredia carbon filtration technique is based on enhanced, activated carbon particle formulations from specially selected, naturally occurring raw material superior to wood or other organic sources. The carbon is treated to attain the proper porosity and aggregate surface area and to react with several ranges of aerosolized chemicals moved through the filter by an air handling blower.

- The multiple filter option permits one or more filtration options to be combined to meet a wider range of multiple-use applications. It permits configuration for the capture of acids, bases and particulates such as biological aerosols when paired with HEPA filters
- The Epredia carbon filter is a self-contained assembly sized to fit the specified product model number, and configured to optimize airflow across 100% of the filter surface area for maximum efficiency, prolonged filter life, optimal diffusion and saturation capacity, and user safety

Epredia is the single source supplier for all pre-filters and carbon filters used in its products.

Epredia fume hoods use energy-efficient centrifugal blowers for long life, and dependable performance.

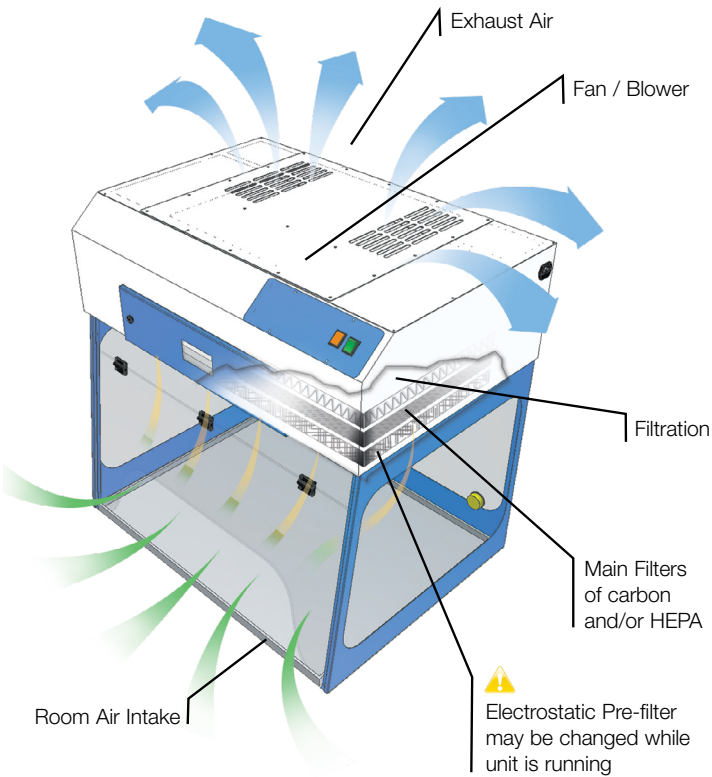# Product Filtration

Features and Benefits

The Hyperclean TruAir product line is available in three standard sizes, each with six configuration options, totaling 12 standard models.

- High capacity air handling system delivers face velocity of 100 fpm
- A low airflow alarm warns of insufficient face velocity
- The filter assembly is easy to access, easy to change
- A unique filter clamping design eliminates bypass leakage outside the cabinet

A multiple filter configuration permits a customized combination of filter media for a broad range of chemical families and biological agents if required.

Airflow Pattern

Exhaust Air
Fan / Blower
Filtration
Main Filters of carbon and/or HEPA
⚠ Electrostatic Pre-filter may be changed while unit is running
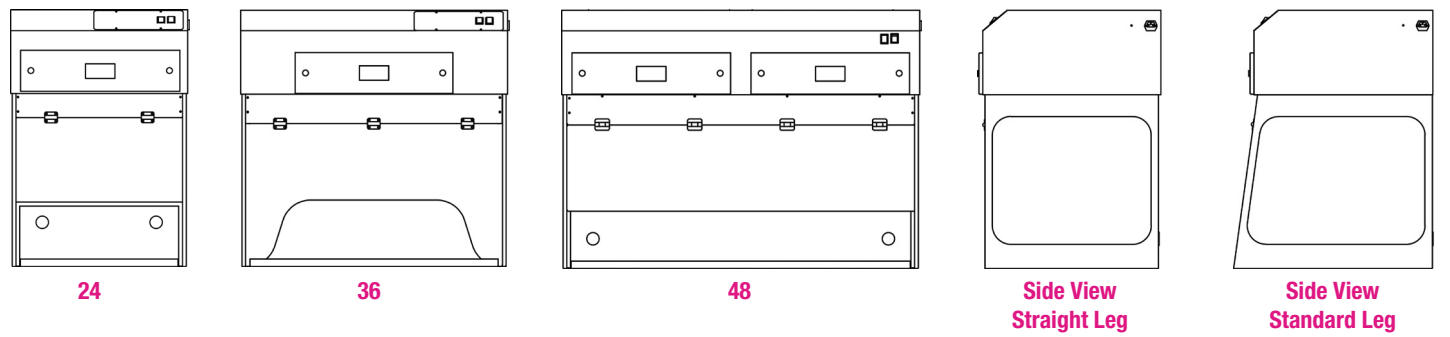Room Air Intake

- The Hyperclean TruAir ductless fume hood maintains a constant face velocity of 100FPM in compliance with USA and international standards for safety and performance. Contaminated air is pulled through the multiple filter system where activated carbon adsorbs chemical vapors and/or particulates are removed if HEPA filters are used. Clean air is returned to the room.

- The main filter is easy to replace, no tools required. The filter clamps tightly against the filter gasket to prevent filter bypass and maintain filter integrity.

Hyperclean TruAir Filtration System, Summary		
	Pre-Filter	**Main Filter**
Electrostatic	Protects the main filters from aerosols, mists, dust and particulates with filter efficiency superior to 95.5% down to 0.5 microns.	
	Standard	--
Activated Carbon	Contains activated carbon granules chemically formulated to capture one or more specific vapors or family of vapors.	
Single: One type of activated carbon	--	Specify
Stacked: Two filters each with a different type of carbon	--	Specify
HEPA	Designed to physically capture particles larger than 0.3 microns. ULPA filter designed to capture particles larger than 0.12 microns is also available upon special request. When used with a HEPA/ULPA filter the ductless fume hood may be applied as a Class I Biological Safety Cabinet.	
	--	Specify

Product Specifications

| 24 | 36 | 48 | Side View Straight Leg | Side View Standard Leg |

Model		Dimensions					Weight (lbs/Kg)	
	Order Number	Voltage	Internal Height	External (D x W x H)	Shipping (D x W x H)	Net		Ship
Hyperclean TruAir **Standard Models with Extra Tall Legs**								
24-XT	B1115243 B1220243	120 V 230 V	24" 61.0 cm	27 x 24 x 35" 67.6 x 61.0 x 88.9 cm	40 x 40 x 40" 101.6 x 101.6 x 101.6 cm	72 / 33		129 / 59
36-XT	B1115363 B1220363	120 V 230 V	24" 61.0 cm	27 x 36 x 35" 67.6 x 91.4 x 88.9 cm	40 x 40 x 40" 101.6 x 101.6 x 101.6 cm	99 / 45		157 / 71
48-XT	B1115483 B1220483	120 V 230 V	24" 61.0 cm	27 x 48 x 35" 67.6 x 121.9 x 88.9 cm	55 x 45 x 40" 139.7 x 114.3 x 101.6 cm	138 / 63		195 / 88
Hyperclean TruAir **Models with Extra Tall Straight Legs** (Reduced Depth)								
24-XTS	B1115244 B1220244	120 V 230 V	24" 61.0 cm	24 x 24 x 35" 61.0 x 61.0 x 88.9 cm	40 x 40 x 40" 101.6 x 101.6 x 101.6 cm	72 / 33		129 / 59
36-XTS	B1115364 B1220364	120 V 230 V	24" 61.0 cm	24 x 36 x 35" 61.0 x 91.4 x 88.9 cm	40 x 40 x 40" 101.6 x 101.6 x 101.6 cm	99 / 45		157 / 71
48-XTS	B1115484 B1220484	120 V 230 V	24" 61.0 cm	24 x 48 x 35" 61.0 x 121.9 x 88.9 cm	55 x 45 x 40" 139.7 x 114.3 x 101.6 cm	138 / 63		195 / 88

Specifications are subject to change without notice.

Product Specifications

Product Specifications

Model	24-XT 24-XTS	36-XT 36-XTS	48-XT 48-XTS
Airflow CFM	135.9	206	281.25
Face Velocity FPM	100	100	100
Noise, dBA, 1 meter	< 50	< 50	< 53
Lighting	<… Compact fluorescent lamp …>		
Construction	<… Light gray coated steel frame and head unit. Clear sides and back panel …>		
Blower	<… centrifugal fan …>		
Electrical	<… 120V, 60Hz or 230V, 50Hz voltages available …>		
Electrical Switches	<… Main On/Off …>		
Monitoring	<… Low airflow alarm, standard …>		

Filter Specifications

Pre-Filter	Electrostatic, 1 lbs / .45 kg (nominal)		
Main*	(1) 11 lbs / 5 kg	(1) 11 lbs / 5 kg	(2) 11 lbs / 5 kg

* Single stack; double stack doubles weight of all (i.e. 22, 22, 44 lbs).
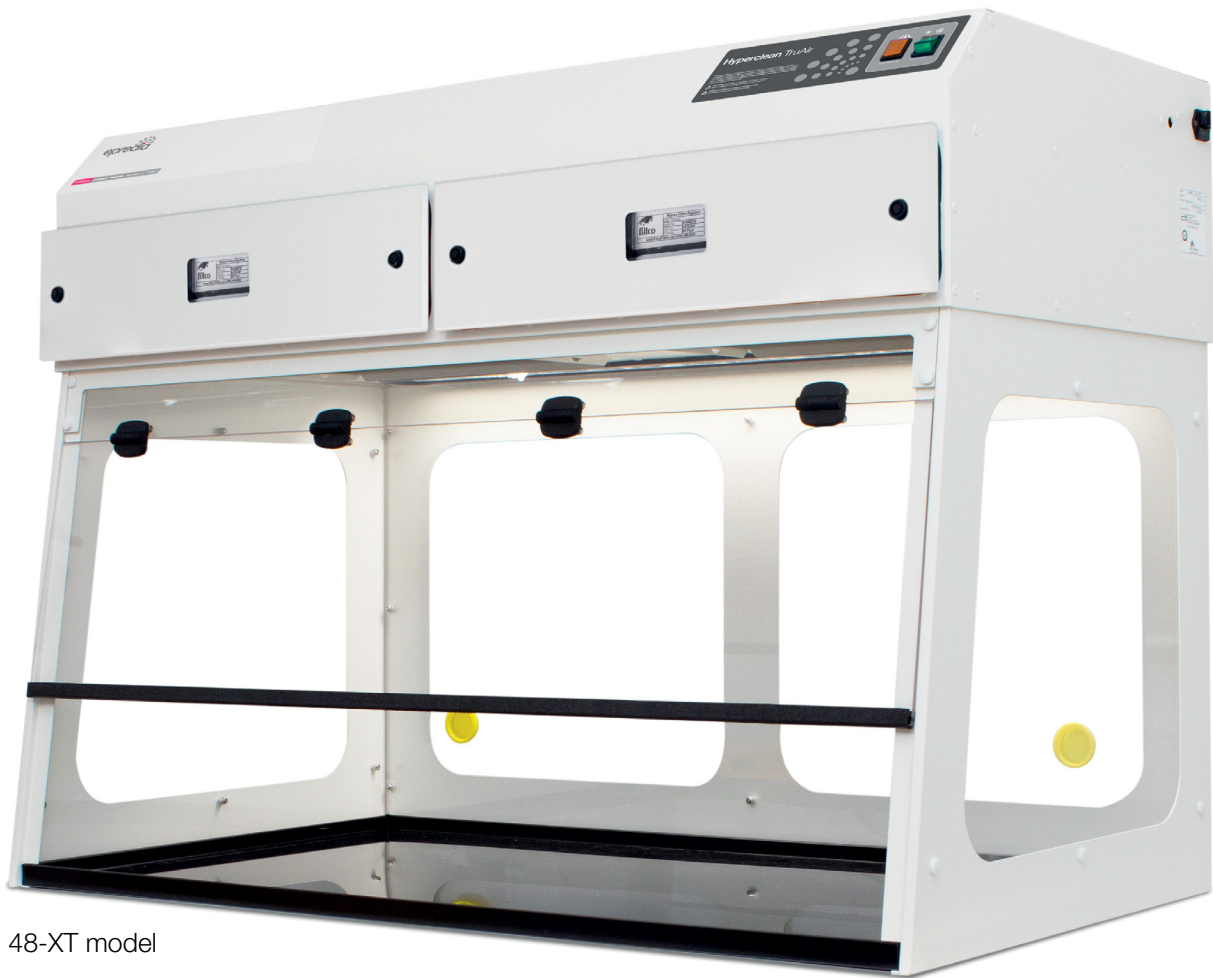
Options and Accessories

		24-XT 24-XTS	36-XT 36-XTS	48-XT 48-XTS
Spill tray	Polypropylene spillage tray, available in black, slides out for easy cleaning.	B1011241 B1011242	B1011361 B1011362	B1011481 B1011482
Base stand, mobile, with casters	Provides a lower storage shelf; accommodates wheelchair access. Locking casters fix the hood in place.	B1010241	B1010361	B1010481
Base stand, fixed	Provides a lower storage shelf.	B1010242	B1010362	B1010482
Base stand, fixed with cup sink and faucet	Provides a lower storage shelf, a cup sink, and swan neck faucet.	B1010243	B1010363	B1010483
Air flow indicator, Dwyer	Continuous display of face velocity.	B1010001	B1010001	B1010001
Filter, particle pre-filter	6 pack	B1010011	B1010011	B1010011
Filter, charcoal, GP	(each)	B1010012	B1010012	B1010012
Filter, ACI inorganic acid	(each)	B1010013	B1010013	B1010013
Filter, formaldehyde	(each)	B1010014	B1010014	B1010014
Filter, HEPA	(each)	B1010015	B1010015	B1010015
Filter, AMM Ammonia removal	(each)	B1010016	B1010016	B1010016
Filter, ACR Iodine removal	(each)	B1010018	B1010018	B1010018
Filter access key	(replacement)	B1115240	B1115240	B1115240

An audio and visual Filter Saturation Alarm with an electronic gas sensor is available upon special request. Call for details.

Product Compliance

Standards and Compliance

Quality Management Systems	ISO 9001: 2015
Electrical Safety	UL-C-61010-1 CAN/CSA C22.2 61010-1-12 EN 61010-1: 2010 CE Mark
OSHA, Occupational Safety and Health Administration	OSHA Standard -29 CRF, Safety and Health Regulations for General Industry, 1910.1450: Occupational exposure to hazardous chemicals in laboratories. Part B, definition, laboratory type hood.
Environment	ISO 14001: 2015 Energy Star® Partner

48-XT model

Find out more at **epredia.com**

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