Polypropylene Ductless Fume Hood - Folding Sash

A ductless solution for most common applications

Polypropylene ductless fume hoods protect both the operator and the environment by filtering toxic fumes, vapors, or gases through AirClean® Systems' proprietary bonded carbon filtration before returning clean air to the room. Standard with a thermally-fused integral spill tray, polypropylene ductless fume hoods are chemically resistant to virtually all corrosive applications.

For the widest application range possible, each polypropylene hood is designed to accommodate up to seven inches of filtration. By stacking a HEPA filter followed by a bonded carbon filter, the operator can effectively filter both toxic particulate and chemical fumes. For high evaporation or multi-chemical applications, a full seven-inch stack of chemical filtration may be recommended.

AC4000 Polypropylene Ductless Fume Hood shown on optional base cabinet

Features:

- AirSafe™ automatic safety controller monitors airflow face velocity and carbon filter saturation
- Polypropylene construction for chemical resistance. The result: NO RUST
- Wide range of bonded activated carbon and HEPA filters for containment of virtually any toxic vapor, fume, gas, or particulate
- AirZone™ baffling establishes a proper horizontal airflow pattern and directs toxins away from the operator in a predictable pattern, eliminating "dead spots" within the hood
- No ductwork required
- Integral vapor-proof fluorescent lighting
- No installation required. All AirClean® Systems hoods are shipped fully assembled and arrive ready to use
- Available in 110V or 220V AC

Options:

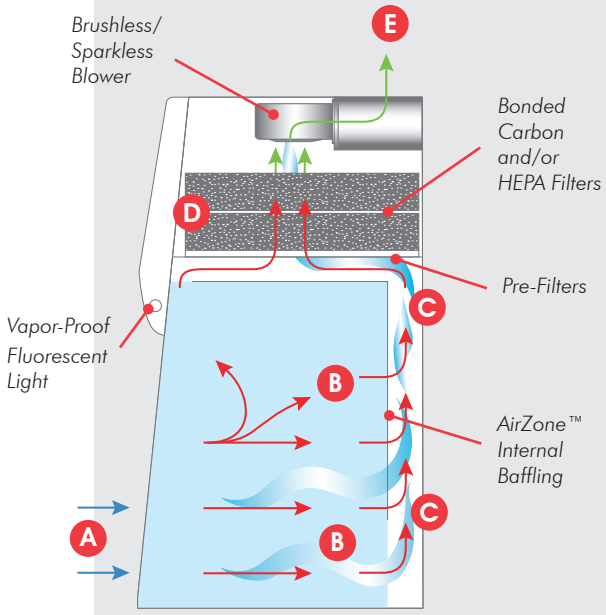
- Vented and unvented polypropylene base cabinets
- Access port for electrical cords
- Polypropylene sink and deck-mounted fixtures
- Sturdy stand with leveling feet
- Clear sides and back

AirClean® Systems ductless hoods, workstations and enclosures meet and exceed relevant OSHA and ANSI Z9.5 standards

AC4000 Polypropylene Ductless Fume Hood on optional stand

How the folding sash polypropylene ductless fume hood works:

1. Room air flows away from the operator and enters the enclosure in a horizontal pattern at "A".
2. Room air mixes with both lighter and heavier gases at "B" before being drawn into the AirZone™ baffling at "C".
3. Contaminated air is directed through the filtration bed at "D".
4. Clean air is recirculated into the room at "E".



UL and CSA CERTIFIED

POLYPROPYLENE DUCTLESS FUME HOOD DIMENSIONS - FOLDING SASH						
Product #	External Dimensions			Internal Dimensions		
	Width	Depth	Height	Width	Depth	Height
AC3000	36″	30″	54″	35″	26″	35″
AC3036	36″	36″	54″	35″	32″	35″
AC4000	48″	30″	54″	47″	26″	35″
AC4036	48″	36″	54″	47″	32″	35″
AC5000	60″	30″	54″	59″	26″	35″
AC5036	60″	36″	54″	59″	32″	35″
AC6000	72″	30″	54″	71″	26″	35″
AC6036	72″	36″	54″	71″	32″	35″

Polypropylene Ductless Fume Hood - Sliding Sash

The look and feel of a traditional fume hood, without the associated installation or energy costs

AirClean® Systems polypropylene ductless fume hoods with vertical sliding sash are similar to traditional exhaust fume hoods, yet do not require costly ductwork and HVAC systems to eliminate toxic fumes, vapors and gases. Operators familiar with exhaust hoods feel at home thanks to the vertical sliding safety glass sash, dual wall construction, and optional front-mounted fixtures. In addition to these time-tested features, the AirSafe™ automatic safety controller provides constant airflow monitoring, automatically maintaining the operator-specified face velocity as the sash is raised or lowered.

AC4000S Polypropylene Ductless Fume Hood with sliding sash, shown on optional base cabinet

Features:

- AirSafe™ automatic safety controller monitors airflow face velocity and carbon filter saturation
- Vertical sliding safety glass sash
- Dual wall construction allows for front mounting of services such as water, gas, or electric
- AirZone™ internal baffling provides even airflow for maximum containment
- FlowSmooth™ airfoil on sash lip promotes consistent laminar airflow
- Polypropylene construction for excellent chemical resistance. The result: NO RUST
- Wide range of bonded activated carbon and HEPA filters for containment of virtually any toxic vapor, fume, gas, or particulate
- No installation required. All AirClean® Systems hoods are shipped fully assembled and arrive ready to use
- Integral vapor-proof fluorescent lighting
- Available in 110V or 220V AC

Options:

- Vented and unvented polypropylene base cabinets
- Remote services — gas, water, vacuum, and air
- Duplex electrical outlets
- Polypropylene sinks and water fixtures
- Slip hatch electrical access ports

Hoods, workstations, and enclosures are shipped fully assembled

AirClean® Systems ductless hoods, workstations and enclosures meet and exceed relevant OSHA and ANSI Z9.5 standards

AC4000S Polypropylene Ductless Fume Hood with sliding sash, shown on optional base cabinet

ASHRAE110 TESTED

UL and CSA CERTIFIED

AirSafe™ automatic safety controller

AirZone™ internal baffling provides even airflow for maximum containment

Dual wall construction allows for front mounting of services

POLYPROPYLENE DUCTLESS FUME HOOD DIMENSIONS - SLIDING SASH

Product #	External Dimensions			Internal Dimensions		
	Width	Depth	Height	Width	Depth	Height
AC3000S	36″	30″	60″	30″	25″	36″
AC3036S	36″	36″	60″	30″	31″	36″
AC4000S	50″	30″	60″	44″	25″	36″
AC4036S	50″	36″	60″	44″	31″	36″
AC6000S	72″	30″	60″	66″	25″	36″
AC6036S	72″	36″	60″	66″	31″	36″
AC8000S	96″	30″	60″	90″	25″	36″
AC8036S	96″	36″	60″	90″	31″	36″

Patriot™ Ductless Fume Hood - Folding Sash

Monitoring and fume hood control at the touch of an icon

Patriot™ ductless fume hoods provide the operator with user-friendly controls, superior construction materials and market-leading safety features needed for effective fume containment. Patriot™ ductless fume hoods can be placed virtually anywhere, without the need to connect to building infrastructure, giving you the flexibility expected from modern laboratory equipment.

ACPT4000 Patriot™ with AirSafe™ NXT color touch-screen controller shown with optional stand

Features:

- Structural thermally-fused polypropylene construction for superior chemical resistance and spill containment
- Constant monitoring of fume hood face velocity with variable airflow control to user preset value
- Built-in solid state gas detection
- Large capacity filtration bed to handle a wide variety of applications
- AirZone™ baffling system that promotes smooth and controlled airflow for optimal containment
- Integral vapor proof fluorescent lighting for effective work area illumination
- Shipped fully assembled, filters installed
- 110V or 220V models available

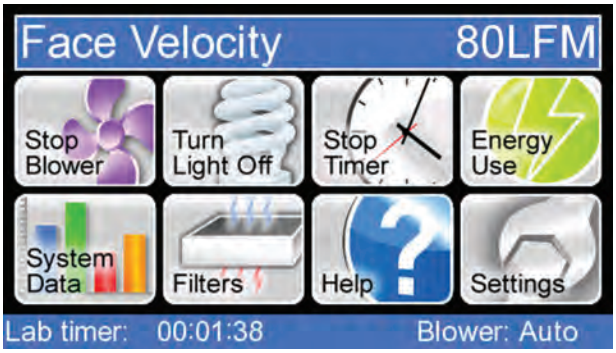
Options:

- Polypropylene base cabinets, vented and unvented
- Slip hatch electrical cord access ports
- Polypropylene sinks and deck mounted fixtures
- Sturdy cart/trolley with locking casters for mobility
- Epoxy coated metal stand with adjustable leveling feet

Hoods, workstations, and enclosures are shipped fully assembled

AirClean® Systems ductless hoods, workstations and enclosures meet and exceed relevant OSHA and ANSI Z9.5 standards

AirSafe™ NXT provides touchscreen access to all critical operation and monitoring functions of the PATRIOT™ ductless fume hood. Automatic blower control, filter monitoring, alarm notifications and energy use meter are just a few of the standard features provided by the AirSafe™ NXT automatic safety controller.

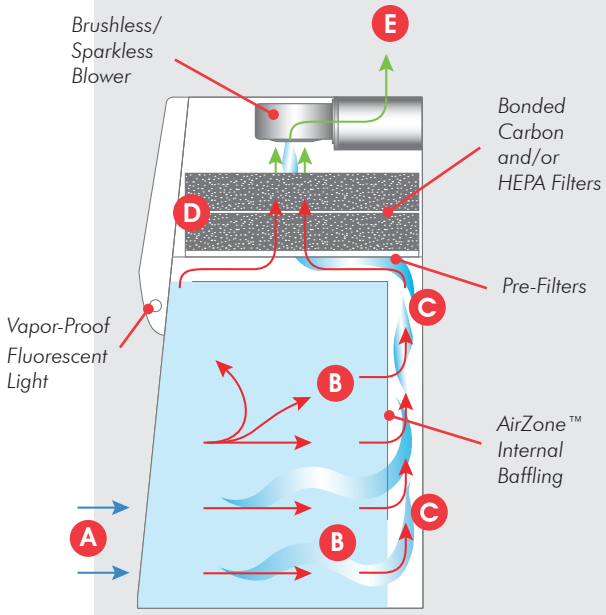


AirSafe™ NXT home screens allow monitoring and control of all ductless hood features

AirSafe™ NXT allows the operator to set language preferences and display unit of measure preferences

How the Patriot™ ductless fume hood works:

1. Room air flows away from the operator and enters the enclosure in a horizontal pattern at "A".
2. Room air mixes with both lighter and heavier gases at "B" before being drawn into the AirZone™ baffling at "C".
3. Contaminated air is directed through the filtration bed at "D".
4. Clean air is recirculated into the room at "E".



UL, CSA and CE CERTIFIED

PATRIOT™ DUCTLESS FUME HOOD DIMENSIONS - FOLDING SASH

Product #	External Dimensions			Internal Dimensions		
	Width	Depth	Height	Width	Depth	Height
ACPT3000	36″	30″	54″	35″	26″	35″
ACPT3036	36″	36″	54″	35″	32″	35″
ACPT4000	48″	30″	54″	47″	26″	35″
ACPT4036	48″	36″	54″	47″	32″	35″
ACPT5000	60″	30″	54″	59″	26″	35″
ACPT5036	60″	36″	54″	59″	32″	35″
ACPT6000	72″	30″	54″	71″	26″	35″
ACPT6036	72″	36″	54″	71″	32″	35″

Patriot™ Ductless Fume Hood - Sliding Sash

Variable airflow monitoring and control to ensure efficient operation

AirSafe™ NXT provides touchscreen access to all functions of the Patriot™ ductless fume hood. Automatic blower control, filter monitoring, alarm notifications and energy use meter are just a few of the standard features provided by the AirSafe™ NXT automatic safety controller. ChemMinder™ application acknowledgement system provides the end user with real-time data on approved chemical class.

Features:

- Touch-screen microprocessor control with variable airflow controller and constant filter monitoring
- Structural thermally-fused polylpropylene construction for superior chemical resistance and spill containment
- ChemMinder™ chemical class confirmation — user notification of chemical/filtration compatibility
- AirZone™ baffling to promote uniform airflow and containment
- Dual wall design to allow for placement of fixtures, taps and electrical outlets like a typical total exhaust fume hood
- Large capacity filtration bed to handle a variety of chemical applications and
- Energy Use Meter — displays real-time and lifetime energy use
- Built-in gas detector
- Shipped fully assembled, filters installed
- 110V or 220V models avaliable

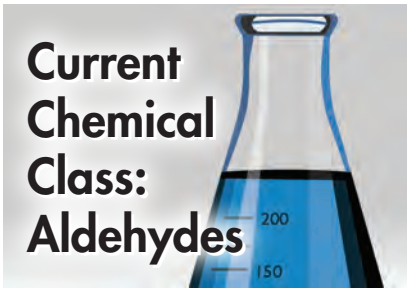
Options:

- Polypropylene base cabinets, vented and unvented
- Slip hatch electrical cord access ports
- Polypropylene sinks and deck mounted fixtures
- Sturdy cart/trolley with locking casters for mobility
- Epoxy coated metal stand with adjustable leveling feet

ACPT4000S Patriot™ shown on optional base cabinet

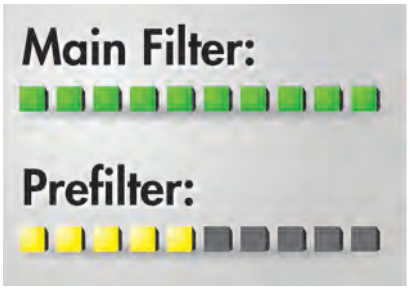
ASHRAE110 TESTED

UL, CSA and CE CERTIFIED



ChemMinder™

Provides user confirmation of chemical classes approved for use in PATRIOT™.



Filter Life Meter

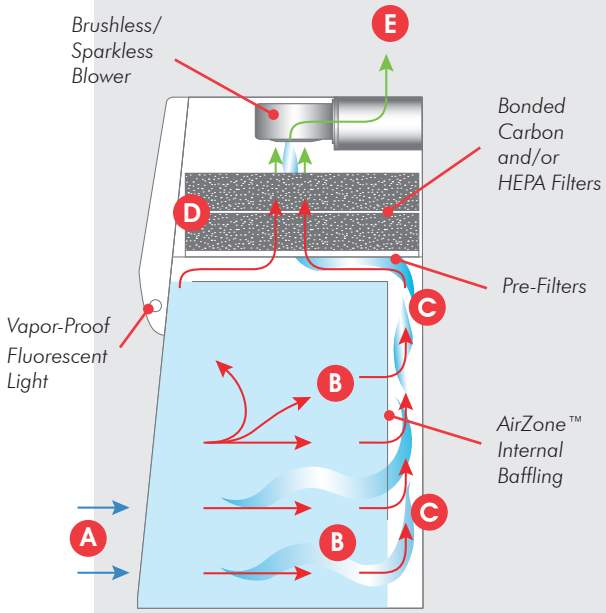
Real-time visual filter life monitoring with a meter that tracks consumption of the installed fume hood filtration

Energy Use Meter

Provides operator or laboratory manager with total use hours as well as electrical consumption

How the Patriot™ ductless fume hood works:

1. Room air flows away from the operator and enters the enclosure in a horizontal pattern at "A".
2. Room air mixes with both lighter and heavier gases at "B" before being drawn into the AirZone™ baffling at "C".
3. Contaminated air is directed through the filtration bed at "D".
4. Clean air is recirculated into the room at "E".



AirClean® Systems ductless hoods, workstations, and enclosures meet and exceed relevant OSHA and ANSI Z9.5 standards

PATRIOT™ DUCTLESS FUME HOOD DIMENSIONS - SLIDING SASH

Product #	External Dimensions			Internal Dimensions		
	Width	Depth	Height	Width	Depth	Height
ACPT3000S	36″	30″	60″	30″	25″	36″
ACPT3036S	36″	36″	60″	30″	31″	36″
ACPT4000S	50″	30″	60″	44″	25″	36″
ACPT4036S	50″	36″	60″	44″	31″	36″
ACPT6000S	72″	30″	60″	66″	25″	36″
ACPT6036S	72″	36″	60″	66″	31″	36″
ACPT8000S	96″	30″	60″	90″	25″	36″
ACPT8036S	96″	36″	60″	90″	31″	36″

Independence™ Fume Hood

Next generation ductless fume hood technology

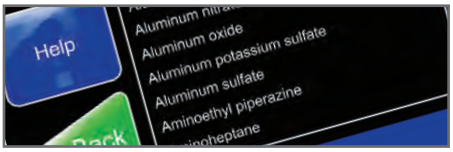
As research and laboratories evolve, AirClean® Systems continues to innovate with sophisticated, efficient fume containment solutions. Independence™ is the culmination of two decades of research and development in airflow design, gas-phase filtration, fume detection and fume hood control technologies. The ductless fume hood has now come of age.

Independence™ provides real-time PPM measurements for filter saturation, an on-board application validation system, class-leading airflow control and a host of innovative features unique to the ductless fume hood marketplace. Never before has a fume hood been able to offer this level of safety and performance.

ACRJ4030 Independence™ Ductless Fume Hood with optional base cabinet, sinks and fixtures

Breakthrough Technology:

AirSafe™ TOUCH
Automatic Safety Controller



FilterStat™ Application Validation System

Silconazyne™ Bonded Filtration

TriAnalyze 3x3™
Multi-Method Gas Detection

CommStat™ Remote Monitoring

Reduced Energy Use

ASHRAE110 TESTED

SEFA 9 TESTED

Reduce your carbon footprint.

The average traditional "total exhaust" fume hood consumes 3.5 times the energy of an average U.S. household. Through its ductless recirculating design, automatic variable airflow control and unique energy conservation mode, Independence™ eliminates this energy waste. Gone is the cycle of exhausting conditioned room air while an energy-draining, over-built HVAC system supplies conditioned 'make-up air' to the same room.

Independence™ has the physical design elements of a traditional fume hood with Silconzayne™ filtration that is approved for most common chemical applications.

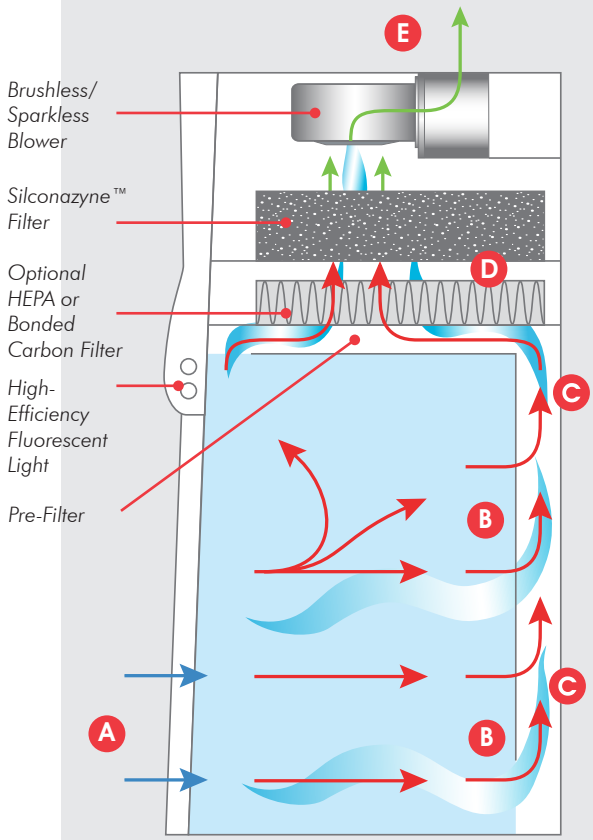
Go ductless with AirClean®

Construction Features:

- Ductless design for significantly reduced installation costs
- Polypropylene construction eliminates potential for rust
- High-performance curved air entry
- Removable flame-retardant base positioned above integral spill basin
- AirZone™ baffling promotes even airflow pattern and provides exceptional capture capability
- Dual wall construction for service and fixture placement
- Motorized safety glass sash
- Hinged front panel for simple filter access and replacement
- Designed, tested and manufactured in the USA

How the Independence™ ductless fume hood works:

1. Room air flows away from the operator and enters the enclosure in a horizontal pattern at "A".
2. Room air mixes with both lighter and heavier gases at "B" before being drawn into the AirZone™ baffling at "C".
3. Contaminated air is directed through the filtration bed at "D".
4. Clean air is recirculated into the room at "E".



AirClean® Systems ductless hoods, workstations and enclosures meet and exceed relevant OSHA and ANSI Z9.5 standards

INDEPENDENCE™ FUME HOOD DIMENSIONS

Product #	External Dimensions			Internal Dimensions		
	Width	Depth	Height	Width	Depth	Height
ACRJ4030	50″	30″	60″	39″	22″	35″
ACRJ6030	72″	30″	60″	61″	22″	35″