



# Operator Protection

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## AC600 Series Ductless Chemical Workstation

### *Flexibility and mobility for today's ever changing laboratory environment*

The AC600 Series ductless chemical workstation is a low cost, operator protection product that protects the end user from toxic vapors, gases, fumes and particulate. Smaller and more mobile than a standard ductless fume hood, AC600 Series ductless chemical workstations are the perfect solution for performing low-volume applications with known chemicals. These products come standard with the same advanced safety features and technology as larger AirClean® Systems ductless hoods: gas phase bonded carbon filtration, real-time gas detection and constant airflow control and monitoring.



AC648A Ductless Chemical Workstation



#### **AirSafe safety controller features:**

- Constant airflow control and monitoring
- Real-time hydrocarbon gas detection
- Lab event timer
- Visual display of face velocity

#### **Standard Features:**

- AirSafe™ automatic safety controller
- Bonded carbon filtration
- Integral base with deep spill lip
- No ductwork required
- No installation required - plugs directly into a standard 110V or 220V electrical outlet
- Clear polycarbonate shell for 360° visibility
- Extremely quiet operation < 49dBA
- Available in standard height or tall version

#### **Safety Features:**

- The filter and electronics are located above the workspace, eliminating the chance of a chemical spill entering these sensitive areas
- The brushless, sparkless blower is post-filter
- The deep base effectively contains accidental spills
- The low airflow alarm warns the user both visually and audibly
- Filter safety lockout to ensure correct filter replacement

#### **Options:**

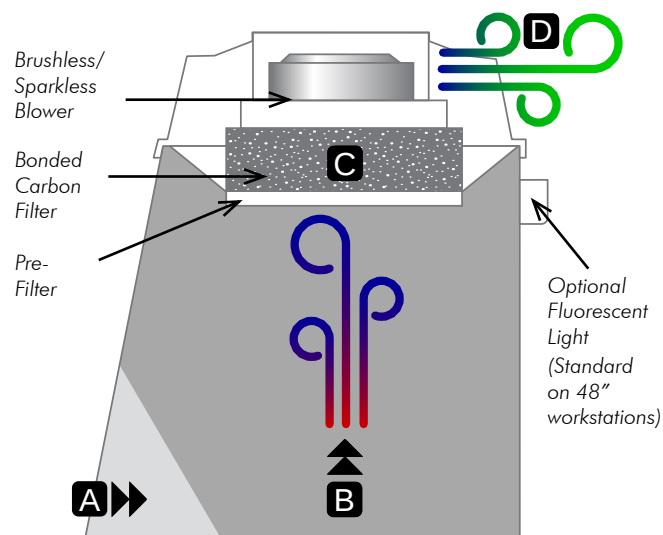
- Cart with locking casters (34" height)
- Polypropylene cup sink
- Deck-mounted fixtures
- Pass-through port
- Fluorescent lighting optional on all 32" width workstations; standard on 48" workstations





### How the AC600 Series works:

1. Room air enters at "A".
2. Room air mixes with gases at "B" and moves through filtration bed at "C".
3. Filtered, clean air exits workstation at "D".



*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*

AC632TA Ductless  
Chemical Workstation  
with optional cart

### AC600 SERIES CHEMICAL WORKSTATION DIMENSIONS

| Product # | External Dimensions |       |        | Internal Dimensions |       |        |
|-----------|---------------------|-------|--------|---------------------|-------|--------|
|           | Width               | Depth | Height | Width               | Depth | Height |
| AC632A    | 32"                 | 25"   | 30"    | 31"                 | 23"   | 19"    |
| AC632TA   | 32"                 | 25"   | 40"    | 31"                 | 23"   | 26"    |
| AC632TAS  | 32"                 | 25"   | 40"    | 31"                 | 23"   | 29"    |
| AC648A    | 48"                 | 25"   | 31"    | 47"                 | 23"   | 19"    |
| AC648TA   | 48"                 | 25"   | 41"    | 47"                 | 23"   | 26"    |
| AC648TAS  | 48"                 | 25"   | 41"    | 47"                 | 23"   | 29"    |

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## 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. 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.



#### **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
- Pass-through port
- 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***



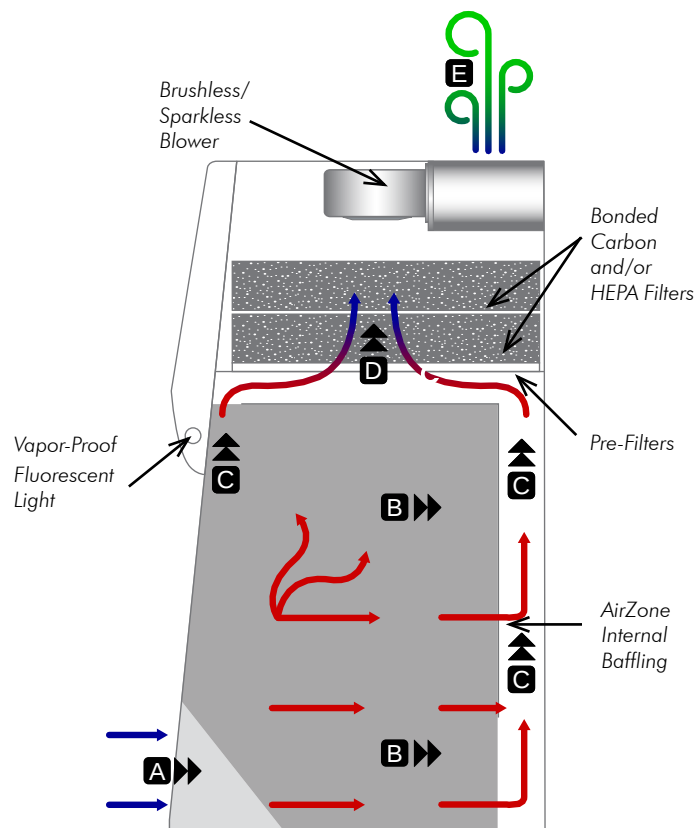
AC4000 Polypropylene Ductless Fume Hood shown on optional base cabinet



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".



| 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 connection to costly ductwork or HVAC systems. 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.



### 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

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

***Hoods, workstations, and enclosures are shipped fully assembled***

 **ASHRAE110 TESTED**

 **UL and CSA COMPLIANT**

AC4000S Polypropylene Ductless Fume Hood shown on optional base cabinet



AC4000S Polypropylene Ductless Fume Hood

**Options:**

- Vented and unvented polypropylene base cabinets
- Remote services — gas, water, vacuum, and air
- Duplex electrical outlets
- Polypropylene sinks and water fixtures
- Pass-through port



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"    |

## Endeavour™ Ductless Fume Hood - Folding Sash

### *Monitoring and fume hood control at the touch of an icon*

Endeavour ductless fume hoods provide the operator with user-friendly controls, superior construction materials and market-leading safety features needed for effective fume containment. Endeavour 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.



#### **Features:**

- AirSafe™ NXT color touchscreen controller
- 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
- Pass-through port
- Polypropylene sinks and deck mounted fixtures
- Epoxy coated metal stand with leveling feet

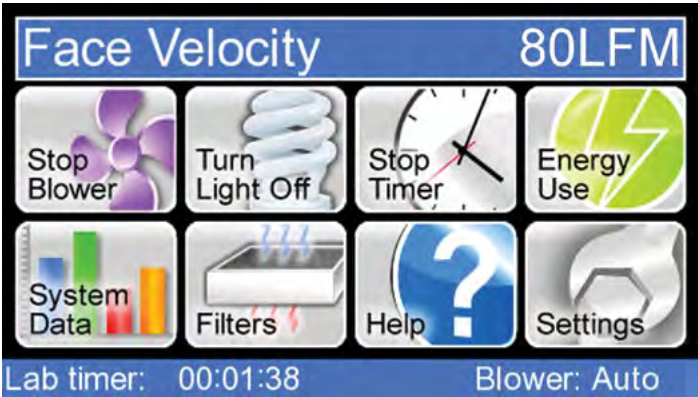
*Hoods, workstations, and enclosures are shipped fully assembled*

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



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

AirSafe™ NXT provides touchscreen access to all critical operation and monitoring functions of the Endeavour™ 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.



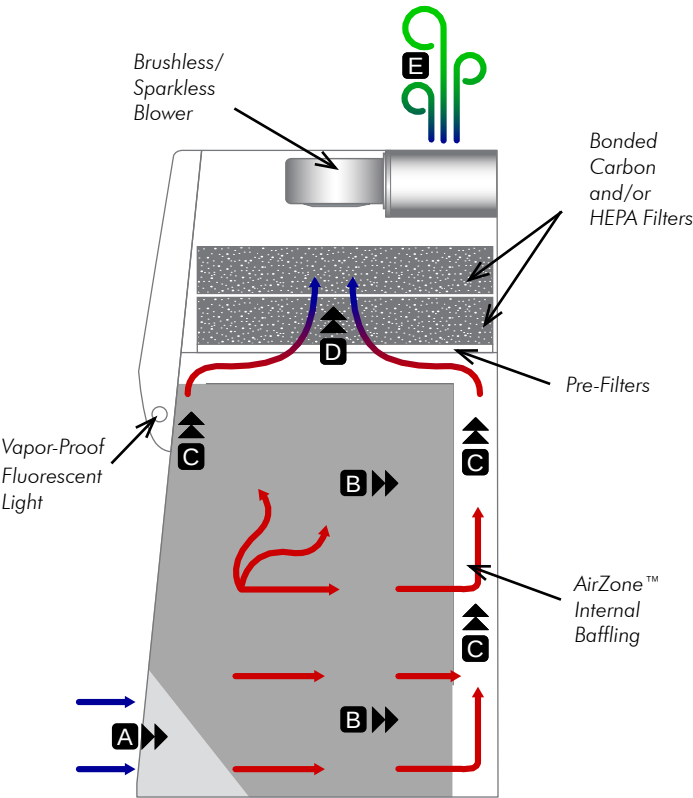
AirSafe NXT home screens allow monitoring and control of all ductless hood features



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

How the Endeavour 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".



| ENDEAVOUR 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"    |

## Endeavour™ Ductless Fume Hood - Sliding Sash

### *Variable airflow monitoring and control to ensure efficient operation*

AirSafe™ NXT provides touchscreen access to all functions of the Endeavour 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 control with variable airflow controller and constant filter monitoring
- Structural thermally-fused polypropylene 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
- Sliding safety glass sash
- 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 available

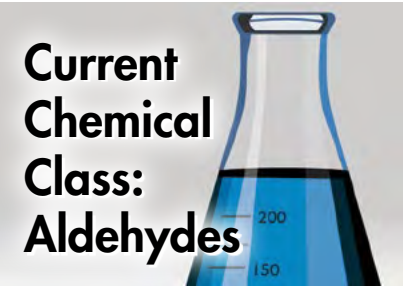
#### **Options:**

- Polypropylene base cabinets, vented and unvented
- Electrical outlets
- Polypropylene sinks and remote fixtures
- Epoxy coated metal stand with adjustable leveling feet

 **ASHRAE110 TESTED**

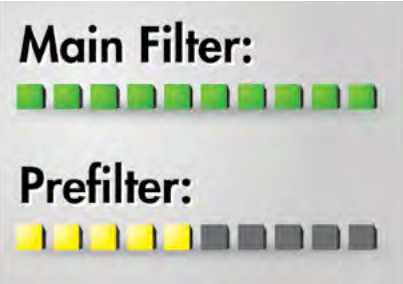
 **UL, CSA and CE COMPLIANT**

ACPT4000S Endeavour shown on optional base cabinet



### ChemMinder™

Provides user confirmation of chemical classes approved for use in Endeavour™



### Filter Life Meter

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

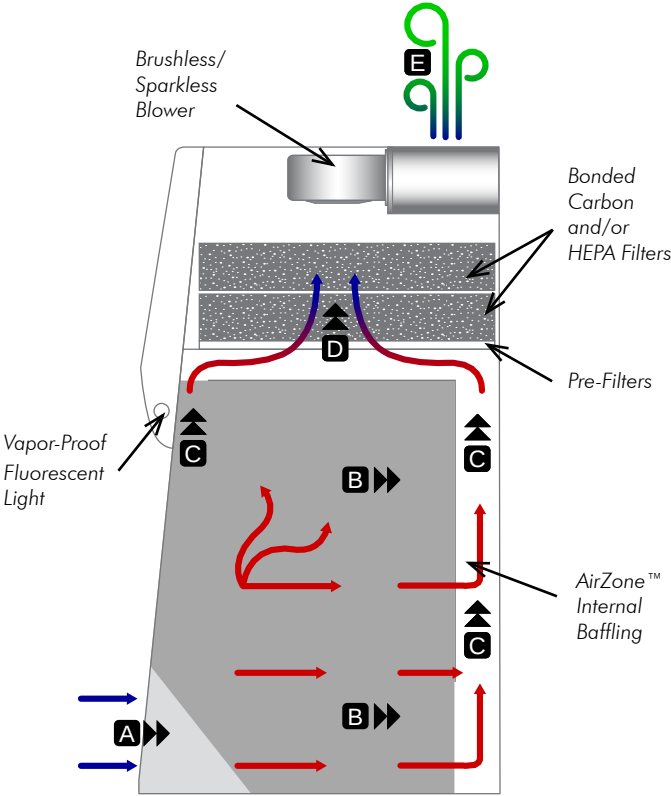


### Energy Use Meter

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

### How the Endeavour 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*

| ENDEAVOUR DUCTLESS FUME HOOD DIMENSIONS - SLIDING SASH |                     |       |        |                     |       |        |
|--------------------------------------------------------|---------------------|-------|--------|---------------------|-------|--------|
| Product #                                              | External Dimensions |       |        | Internal Dimensions |       |        |
|                                                        | Width               | Depth | Height | Width               | Depth | Height |
| ACPT3000S                                              | 36"                 | 60"   | 30"    | 30"                 | 36"   | 25"    |
| ACPT3036S                                              | 36"                 | 60"   | 36"    | 30"                 | 36"   | 31"    |
| ACPT4000S                                              | 48"                 | 30"   | 60"    | 44"                 | 25"   | 36"    |
| ACPT4036S                                              | 48"                 | 36"   | 60"    | 44"                 | 31"   | 36"    |
| ACPT6000S                                              | 72"                 | 30"   | 60"    | 66"                 | 25"   | 36"    |
| ACPT6036S                                              | 72"                 | 36"   | 60"    | 66"                 | 31"   | 36"    |
| ACPT8000S                                              | 96"                 | 60"   | 30"    | 90"                 | 36"   | 25"    |
| ACPT8036S                                              | 96"                 | 60"   | 36"    | 90"                 | 36"   | 31"    |

## 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.

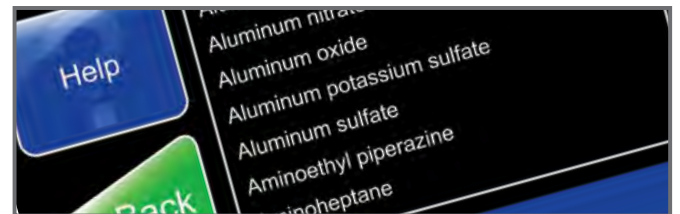


ACRJ4030 Independence Ductless Fume Hood with optional base cabinet, sinks and fixtures

### Breakthrough Technology:



AirSafe™ TOUCH Automatic Safety Controller



FilterStat™ Application Validation System



Silconazyme™ Bonded Filtration



TriAnalyze 3x3™ Multi-Method Gas Detection



CommStat™ Remote Monitoring



Reduced Energy Use

# 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 Silconazyne™ filtration that is approved for most common chemical applications.



**Construction Features:**

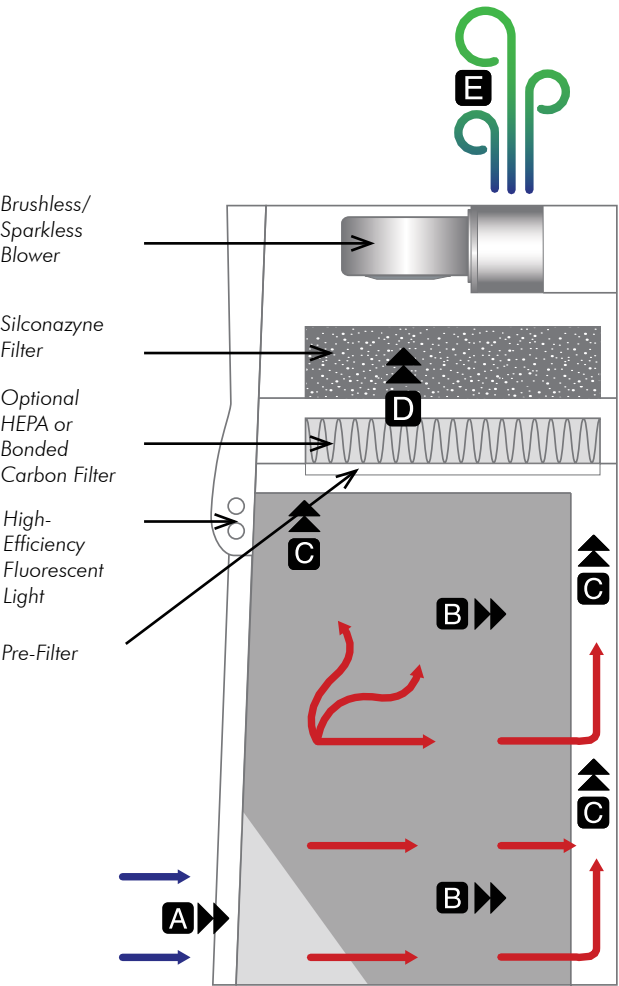
- Ductless design for significantly reduced installation costs
- Polypropylene construction eliminates potential for rust
- High-performance curved air entry
- Removable flame-retardant base positioned above integral spill basin
- AirZone™ baffling promotes even airflow pattern and provides exceptional 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

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



**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”.



| INDEPENDENCE FUME HOOD DIMENSIONS |                     |       |        |                     |       |        |
|-----------------------------------|---------------------|-------|--------|---------------------|-------|--------|
| Product #                         | External Dimensions |       |        | Internal Dimensions |       |        |
|                                   | Width               | Depth | Height | Width               | Depth | Height |
| ACRJ4030                          | 50"                 | 30"   | 60"    | 39"                 | 22"   | 35"    |
| ACRJ4036                          | 50"                 | 36"   | 60"    | 39"                 | 28"   | 35"    |
| ACRJ6030                          | 72"                 | 30"   | 60"    | 61"                 | 22"   | 35"    |
| ACRJ6036                          | 72"                 | 36"   | 60"    | 61"                 | 28"   | 35"    |

# Polypropylene Free-Standing Ductless Enclosure

*Extra vertical height from a proven ductless filtration platform*

AirClean® Systems E-Series polypropylene free-standing ductless enclosures are designed to accommodate applications that require additional vertical height. Typically floor mounted, each free-standing enclosure features an upper folding sash combined with lower access doors, providing easy ergonomic access during manipulation. Full access design allows equipment to be easily inserted or removed from the enclosure, making the E-Series perfect for use with mixers, mills, grinders, reactors or other tall equipment.



**Features:**

- AirSafe™ automatic safety controller
- Seamless 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 ductwork or installation required. All AirClean Systems hoods are shipped fully assembled and arrive ready to use
- Integral vapor-proof fluorescent light
- Filter stacking options for a variety of applications
- Available in 110V or 220V AC

**Typical Applications:**

- Testing and sifting of bulk powders
- Filling applications — large containers
- Large-scale chemistry setups
- Enclosing tall pieces of equipment

*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*

AC6000E Free-Standing Ductless Enclosure

| POLYPROPYLENE FREE-STANDING DUCTLESS ENCLOSURE |                     |       |        |                     |       |        |
|------------------------------------------------|---------------------|-------|--------|---------------------|-------|--------|
| Product #                                      | External Dimensions |       |        | Internal Dimensions |       |        |
|                                                | Width               | Depth | Height | Width               | Depth | Height |
| AC3000E                                        | 36"                 | 32"   | 79"    | 35"                 | 30"   | 60"    |
| AC4000E                                        | 48"                 | 32"   | 79"    | 47"                 | 30"   | 60"    |
| AC5000E                                        | 60"                 | 32"   | 79"    | 59"                 | 30"   | 60"    |
| AC6000E                                        | 72"                 | 32"   | 79"    | 71"                 | 30"   | 60"    |

# Walk-In Free-Standing Ductless Enclosure

*Up to 272 cubic feet of fume, vapor and particulate containment*

AirClean® Systems polypropylene walk-in enclosures are an effective containment solution for fumes or particulate released from equipment during manipulation or bulk handling applications. A variety of enclosure widths, depths and sash options maximize operator access without compromising safety.



AC8000WI Walk-In Free-Standing Ductless Enclosure

### Typical Applications:

- Enclosing large equipment while retaining full operator access
- Bulk chemical mixing and weighing

### Features:

- Multiple depth options
- AirSafe™ automatic safety controller
- Polypropylene construction — seamless design
- Bonded carbon and HEPA filter stacking options for a variety of applications
- Vapor-proof fluorescent light
- No ductwork required
- Available in 110V or 220V AC

### Options:

- Larger pass-through access ports
- Slotted rear wall for horizontal airflow patterns
- Customization of standard design to accommodate equipment or workplace layout



AC10000WI shown with custom built-in countertop

| WALK-IN FREE-STANDING DUCTLESS ENCLOSURE |                     |               |        |                     |               |        |
|------------------------------------------|---------------------|---------------|--------|---------------------|---------------|--------|
| Product #                                | External Dimensions |               |        | Internal Dimensions |               |        |
|                                          | Width               | Depth Options | Height | Width               | Depth Options | Height |
| AC6000WI                                 | 72"                 | 3', 4', 5'    | 96"    | 71"                 | 28", 40", 52" | 74"    |
| AC8000WI                                 | 96"                 | 3', 4', 5'    | 96"    | 95"                 | 28", 40", 52" | 74"    |
| AC10000WI                                | 120"                | 3', 4', 5'    | 96"    | 119"                | 28", 40", 52" | 76"    |