

Free Up Valuable Fume Hood Real-estate



Leading Safety Standards

Superior Ease of Use

Reduced Cost of Ownership

AirClean[®]Systems
THE FUME CONTROL EXPERTS[™]

General Advantages

AirClean Systems ductless hoods, workstations and enclosures are designed to protect the operator, the process or both from toxic vapors, fumes, gas and particulate.

At the heart of all AirClean Systems chemical hoods, workstations and enclosures is a revolutionary gas phase bonded carbon filter. This unique filter, found only in AirClean Systems safety products, eliminates filter dusting and dead zones associated with traditional granular carbon filters.

Our ductless fume hoods are a true "green product", using much less energy and natural resources than traditional exhaust fume hoods. The average traditional "total exhaust" fume hood consumes three-and-a-half times the energy of the average U.S. household. This is due to the hood exhausting room air, forcing the HVAC system to continually heat or cool makeup air coming into the laboratory. Ductless fume hoods eliminate this costly cycle- reducing environmental impact through significantly reduced energy use.

Rotary Evaporator Enclosure

These systems are engineered specifically for enclosing rotary evaporators, chromatography equipment and robotic equipment while providing unrestricted access for operator interaction. Clear polycarbonate shell and horizontal sliding doors provide visibility for monitoring the equipment, while the AirSafe automatic safety controller maintains airflow and monitors filter condition. At only 24 inches deep and 38" wide, this enclosure takes up very little counter space.

Ductless Enclosure Features

- Integral base with deep spill lip
- Quiet operation; < 49 dB
- Horizontal sliding access doors for equipment manipulation
- Safely encloses rotary evaporator, vacuum pump and waste bottle
- Dust-free bonded carbon filter
- Application specific construction materials
- Approved chemical list filter included in unit
- Connect to HVAC system thru 4" tubing (Total Exhaust Enclosure ONLY)

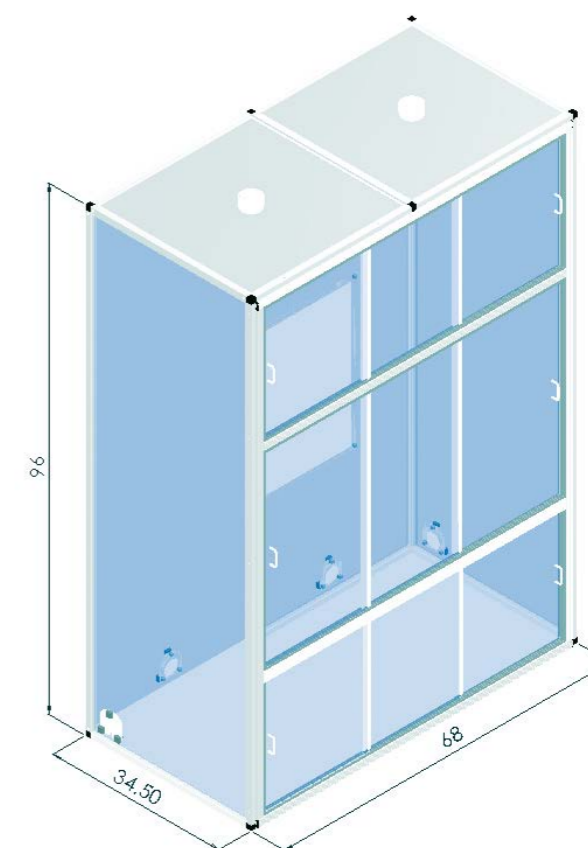


Industrial Rotary Evaporator Enclosure

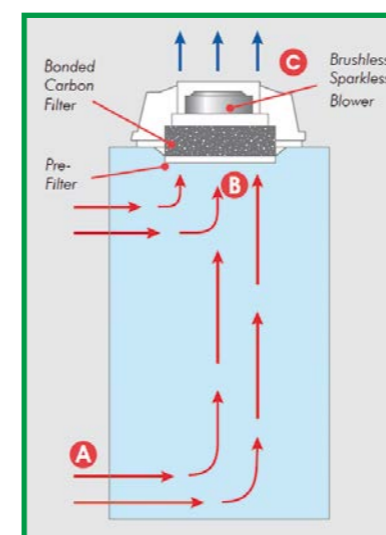
The industrial enclosure is designed to protect the operator of industrial rotary evaporators from harmful fumes and vapors. The enclosure is designed to be attached to two 4" HVAC ducting collars and used as full enclosure of the industrial evaporator system. This allows for precious walk-in hood space to be used for synthetic chemistry, such as jacket reactors, separation funnels or even waste storage, rather than housing the industrial 20L rotary evaporator.

Product Features

- Designed to provide vapor/fume safety to an industrial evaporator when attached to an exhaust system (HVAC)
- Made of polycarbonate panels with multiple entry panels/doors to provide complete access to industrial evaporator while containing vapors
- Allows operator protection while freeing up the use of a walk-in-hood



How the rotary evaporator enclosure works



- When enclosure doors are closed, room air enters the chamber through access slots at "A"
- Air moves evenly through the chamber while pulling fumes into the bonded carbon filter at "B"
- Clean air is recirculated into the room at "C"

Approved Chemical List

Acetone	Dimethylsulfoxide	Methylene Chloride
Acetonitrile	Ethanol	Tetrahydrofuran
Acetic Acid	Ethyl Acetate	Toluene
Chloroform	Hexane	Water
Diethylether	Isopropyl Alcohol	
Dimethylformamide	Methanol	

Technical specifications

P/N		035100210	035100200	035100230
Model Description		Bench Top Rotary Evaporator Ductless Enclosure	Bench Top Rotary Evaporator Total Exhaust Enclosure	Industrial Rotary Evaporator Enclosure
External Dimensions	Width	38"	38"	68"
	Depth	24"	24"	34.75"
	Height	48"	50"	96"
Internal Dimensions	Width	37"	37"	66"
	Depth	21.5"	21.5"	32"
	Height	38"	38"	94"
Airflow characteristics	Volume of filtered air	350 CFM	n/a	600 Max CFM at full opening
	Linear face velocity	2-Speed	supply dependent	60 FLPm average
Electrical	Voltage	110V	n/a	n/a
	Current	2.0	n/a	n/a
Construction	Base	Polypropylene	Polypropylene	Open-No Base
	Sides	Polycarbonate	Polycarbonate	Polycarbonate
	Head Assembly	ABS	ABS	n/a
	Filter Model	035110160 (required with unit)	n/a	n/a
	Filter Type	Bonded Carbon	n/a	n/a
	Operation	2 Speed	n/a	n/a
	Noise Level	< 55 dBA	n/a	n/a
	Weight	135 lbs.	105 lbs.	300 lbs.

* Please contact Heidolph North America for HVAC requirements

**All dimensions provided are in Inches units

Application Worksheet



APPLICATION WORKSHEET-DUCTLESS HOOD

Ductless Hoods and Enclosures are ideal for a variety of applications, but not for all applications. Please complete the following and fax to 224-265-9611, Attention: Filter Specialist. Please provide accurate information so that we can best determine if a ductless hood is appropriate for your application and verify the correct filter(s) needed for your application. Thank you for your time and interest in Heidolph/AirClean® Systems.

1) Describe the process to be completed inside the hood. (ex. solvent mixing, slide staining, dilutions, robotic, etc)

2) List all chemicals to be used inside the ductless fume hood. (this will determine filter longevity)

Chemical Name	Powder or Liquid? Will the composition change?	Concentration Amt	Volume evaporated in 24 hours	Frequency (per day, per week)	Heated? Y/N	Remaining in hood after process? Capped or uncapped?

3) Will any of the above chemical(s) be heated inside of the hood? If yes, to what temperature and for how long? What are you using to heat the chemicals?

4) Describe laboratory environment that hood is to be placed into. (ex. Acidic, Clean room, etc.)

5) Are you trying to protect the operator or process (cannot be both)? _____

6) What equipment will be used inside of the hood? Explain. (ex. beakers, microscope, robotic, etc.)

7) How many linear feet of hood space are required for your application? _____

8) What are the dimensions of the available bench top space? _____

9) Will this be placed on a bench or do you require a cart/bench? _____

10) Is Ducted an option? _____ 11) Equipment needed by date: _____

Contact: _____ Email: _____
Phone: _____ Fax: _____

Company (provide address) _____

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Email: nkvasnicka@heidolph.com ♦ web-site: www.HeidolphNA.com



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