

Fume Hood

Originated by: Rich Findley (U. Miami) on Wed, 21 Dec 2011

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All,

I am looking to for small fume hood for the RV Walton Smith. You would think this would be a simple task. The problem is most are just too big in one dimension or another. The other issue is that many seem to have sash weights in them to counterbalance the door. Anyone have any suggestions?

Regards,

Rich

Richard Findley
Director Marine Technical Services
University of Miami
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Reply from: Timothy W. Deering (UDeI) on Wed, 21 Dec 2011

Rich,

We use these flow sciences in all the vans. They come in lots of sizes and I think they will customize to. The blow is separate from the hood. Here is the link.

<http://www.flowsciences.com/>

Regards

Tim Deering

Reply from Christopher Griner (WHOI) on Wed, 21 Dec 2011

Hi Rich,

Tim beat me to it. And he should know since they are in the UNOLS Vans. I think our experience with the Flowscience Fume Hoods in the vans has been very good. Airclean Systems may also have some viable options, although we do not own any at present. I had looked into them a few years back for the same reasons you state meaning limited space / dimensions to use it in and finding one for temporary use when needed. Here is that link: <http://www.aircleansystems.com/>

Regards,
Chris

Reply from: Ben Jokinen (MLML) on Wed, 21 Dec 2011

We use http://www.labconco.com/_scripts/editc20.asp?CatID=4 here on the Pt Sur. Looks like they make a variety of sizes as well.

Ben Jokinen

Reply from James R Postel (UW) on Wed, 21 Dec 2011

Hi Rich:

I'm considering a small ductless fume hood for the Barnes from Mystaire/Misonix--model FE2620, about 24" wide x 30" high x 20" deep. It needs a variety on replaceable filters depending on what chemicals are being used.

James R. Postel
Oceanographer
Manager, Oceanography Technical Services and Shipboard Science Support Group
University of Washington
Seattle WA 98195-7940 office: Room 208, Marine Sciences Building

Reply from: Steve Poulos (U. Hawaii) on Wed, 21 Dec 2011

Hi Rich,

I recently purchased a small fume hood and a separate blower, small speed controller for the blower, I believe the fume hood was all polyethylene. We bought it to gain bench space & to temp. replace the labconco model and its exterior blower. Now it is not "tall" enough for some functions but it was sufficient for a recent cruise in the last two weeks. I will get you the numbers / product info.

Steve Poulos
Univ of Hawaii

Reply from Doug White (UDeI) on Wed, 21 Dec 2011

Just a fyi that I added a "Fume Hoods" section to our Tech Links page and added the three possibilities listed so far to it for future reference:

<http://www.researchvessels.org/techlinks.htm>

Doug

Douglas White - Ocean Information Center (OCEANIC)
University of Delaware, College of the Earth, Ocean, and Environment
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Reply from: Marc Willis (OSU) on Wed, 21 Dec 2011

Jim,

You may want to think twice about ductless hoods. Most university EHS departments (including UW I believe) do not allow ductless hoods for general purpose applications. Some institutions allow them only for specific purpose, single process applications on a case by case basis. Some do not allow them under any circumstances.

Marc

Marc Willis
Marine Science Technical Director
SIKULIAQ Shipyard Project Office

Reply from Steve Poulos (U. Hawaii) on Wed, 21 Dec 2011

Hi Rich,
Here is the info I ref'd:

Company: Lab Safety Supply 800-356-0783
SCIENCEWARE® Economical Benchtop Fume Hood Item #:8752
Mfr. Model #:H50000-0002 \$473
(Polyethylene type)

Ref picture and info:

http://www.labsafety.com/scienceware-economical-benchtop-fumehood_s_8752/?searchterm=scienceware%2bfumehood
smaller portable fume hood ScienceWare

Model Fantech FR150 Inline Duct Fan (or blower)

1) Grainger - Online Fan, Duct 6inch
Item # 5C517 catalog page 4242 \$230

<http://www.grainger.com/Grainger/inline-duct-fans/fans/hvacr/ecatalog/N-8x8Z1z0qm1z>

Model Dayton Fan Speed Controller

2) Grainger - Online Fan Spd Control, 3A
Item # 1DGV1 catalog page 4251 \$25.75

[http://www.grainger.com/Grainger/www/search.shtml?
searchQuery=1dgv1&op=search&Ntt=1dgv1&N=0&sst=subset](http://www.grainger.com/Grainger/www/search.shtml?searchQuery=1dgv1&op=search&Ntt=1dgv1&N=0&sst=subset)

Now this has not been "officially" certified yet - but the blower meets the specs. The controller doesn't slow it down all that much. The picture shows a 6" rubber boot from a plumbing supply shop to decouple the blower from the top of the hood. I bought your typical electrical box to mount the speed controller, attaching to the blower directly. protective cover sheet is still on the fume hood door. Also it is fairly quiet.
Steve Poulos