

Mussun Memo

Mussun Sales, Inc

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LEADS

Louver Engineering and Architectural Design System

Ruskin's web site is full of valuable product information with literature, videos and webinars on all of the products they manufacture.

<https://www.ruskin.com/>

On this site, we have found the LEADS program, found under the software heading on the main page, to be a valuable tool for sizing louvers.

Or simply click on to the following link:

<https://leads.ruskin.com/Default.aspx?ReturnUrl=%2f&ReturnUrl=%2f>

Hit 'I Agree' and design your openings.

LEADS allows you to select a louver type and provides information on that louver based on your project's parameters.

When you plug in your desired size and airflow, you can receive the following information on that louver:

ELC445D based on 48" width, 36" height, and 3000 cfm intake.

FREE AREA (ft ²)	FREE AREA %	FREE AREA VEL (fpm)	PRESSURE DROP (w.g.)	BEGINNING WATER PEN. (fpm)	WATER PEN. SAFETY FACTOR
4.33	36	693	0.06	974	1.41

LEADS can also help you size a louver.

After you select the type of louver you need, plug in a height and CFM. The program will determine the best size you should use for every louver in the category you've selected.

MODEL	WIDTH (in)	HEIGHT (in)	MATERIAL	PRESSURE DROP (w.g.)	FACE AREA (ft ²)	FREE AREA %	FREE AREA (ft ²)	FREE AREA VEL (fpm)	COST INDEX
+ LC6375D	32.00	36.00	Galv.	0.06	8.00	43	3.44	872	1.00
+ ELC445D	41.00	36.00	Alum.	0.08	10.25	36	3.67	818	1.37
+ ELC6375DAX	42.00	36.00	Alum.	0.06	10.50	43	4.53	662	1.66
+ ELC6375DXW	42.00	36.00	Alum.	0.06	10.50	43	4.53	662	1.66
+ ELC6375DXD	43.00	36.00	Alum.	0.06	10.75	40	4.30	697	2.15

If you're unsure on how to use this program, select 'Show Tutorials' to allow the program to take you through each step.

Or, call your Mussun Sales representative for assistance.



Hot Dawg Unit Heaters: Who Knew!

Power-Exhausted, Gas Fired Unit Heater (Model HD)



- *Quiet operation allows your space to be warm without the distraction of a loud machine.
- *Unit can easily be rotated to allow for convenient right or left side control placement.
- *Fuel type: Natural or propane gas.
- *Low-profile, lightweight design easily installs 1" from ceiling with only two angles Brackets.
- *Single or two stage controls available.
- *Direct spark ignition for reliable and consistent ignition.
- *100% shut-off with continuous retry to allow for safe ignition.

Separated Combustion Gas-Fired Unit Heater Model HDS)

Experience the same great features at the HD, with these added benefits:

- *Blower models (HBD) available
- *Draws fresh air from outside, ensuring dust, dirt or fumes do not affect durability or Performance.
- *Factory assembled, certified separated combustion. No add-ons needed allow for an easier and quicker installation providing greater durability and reduced maintenance.



H2O Low profile Hot Water Unit Heater (Model HHD)



- *Low-profile design with flexible mounting options allows for horizontal or vertical air delivery.
- *No external moving parts-twin centrifugal blowers keep all moving parts inside.
- *Side panel air inlet opening have factory installed finger guards.
- *Constructed of heavy gauge steel for long lasting durability.
- *Includes two mounting brackets with vibration isolators to reduce noise and vibration.
- *Internal coil can handle water pressures up to 150 PSI and Temperatures up to 200F.

HOT  DAWG™

GARAGE, WORKSPACE AND OUTBUILDING HEATERS

Please contact your Mussun Sales Representative for more information!



USING THE COOK FAN LAW CALCULATOR TO SOLVE JOBSITE ISSUES!

It's happened many times... the fan that was specified, submitted and approved needs to handle more CFM than what was originally expected. What many people are amazed at is how a small change in CFM requires a somewhat larger change in horsepower and RPM due to increases in static pressure.

This can happen even when the original design could have work perfectly. Common causes are the addition of the elbows and other fittings due to jobsite condition changes unforeseen during design.

Using the Cook Fan Law Calculator, it's easy to find the motor HP and RPM required to get the appropriate CFM. By lining up the original conditions of the CFM, static pressure, fan RPM and motor horsepower, then moving the dial to the desired CFM, one can find the criteria of fan CFM, static pressure and horsepower.

Example

110MHA-SD- Current Conditions: 4,000 CFM / 2.50 / 7.5 HP / 2,152 RPM

110MHA-HD- Desired Conditions: 5,000 CFM / 4.00 / 15 HP / 2,700 RPM



Looking at our example raising the CFM by 1,000 CFM would raise the static pressure to 4" and require a 15 HP motor operating at 2,700 RPM. But we still have a problem, the 15 HP motor will not fit. On the 110 MHA-HD. So, just to raise the CFM by 1,000 CFM will result in changing out the entire fan and increase in the motor HP dramatically.

Sometimes the change can be made with the same fan by adding a larger motor and different drive set. Other times a larger fan may be required. In any case the new values should be evaluated to see that they would fall on a good place on curve.

If you would like one of these handy tools, please contact your Mussun Sales Representative.

-fanAm-

**Corrosion resistant fans constructed
from FRP and Polypropylene**



- UV inhibitors
- Inverter duty motors
- Hazardous location motors
- Curb mounted
- Centrifugal
- Bifurcated In-line

- Fume hood Exhaust
- Storage Cabinets
- Schools & Hospitals
- Waste Water Treatment
- Pool Equipment Rooms
- Methane Exhaust

PDH HOURS

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Since 1951***