

WOODWORKING

DUST COLLECTOR WORK SHEET

FIRM NAME: _____ DATE: _____

STREET ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

CONTACT: _____ EMAIL: _____

TELEPHONE NO.: () _____ FAX: () _____

SALES REP FIRM: _____ SALES REP: _____

I. PRELIMINARY INFORMATION

A. Existing Dust Collector: Yes () No () (If No, proceed to System Sizing)

Shop Vac () Enclosureless () Cyclone ()
With After Filter () Jet Pulse Bag House () Other ()

Manufacturer: _____

Model: _____

B. Existing Duct Work: Yes () No ()

II. SYSTEM SIZING

According to NFPA 664, "Standard For The Prevention Of Fires And Explosions In Wood Processing and Woodworking Facilities", if the shop is greater than 5,000 sq.ft. or if the total airflow requirement is greater than 1,500 CFM, then the system should be sized for 100% of the machines. NFPA publishes recommended standards. We feel their recommendations should be followed as closely as possible.

A. Number of woodworking machines: _____

B. Please itemize wood working machines on Wood Working Machine Survey page..

C. How far will the farthest machine be from the dust collector? _____

D. Hours per day system will operate: _____

E. The collected material will be primarily: Sawdust () Sanding dust () Shavings ()

F. Type of dust collector desired: Cyclone () Shaker () Jet Pulse () Don't Know ()

G. How fast will a 55 gallon drum fill? Week () Day () Hour ().

Confirmed with owner or teacher. Name _____ Date _____

H. Type of dust receptacle desired:
Single 55 gal. Drum () Two 55 gal. Drums () Hopper (105 cu. ft.) ()
() Rotary airlock and clearance for Dumpster () Other ()

III. **SYSTEM FACTS**

- A. Type of facility: Production () School () Maintenance ()
- B. Dust collector location: Indoor () Outdoor ()
- C. Available floor or yard space: _____ x _____ in.
- D. Available height: _____ ft. _____ in.
- E. Cleaned air to be recirculated: Yes () No ()
- F. Available Electrical Service: (Volts, Phase, Hertz) _____
- G. Is 90 - 100 PSI compressed air available: Yes () No ()

WOOD WORKING MACHINE SURVEY

1. Please indicate quantity of each machine in second column.
2. Common size woodworking machines are listed with their typical blade or belt size and required airflow. If you have a machine(s) that is larger than the size shown, **write in the size and pipe connection if known.**
3. NFPA #664 recommends that the system be sized for 100% capacity. If you size the dust collector for less than 100% capacity, you may not be in compliance with your local fire dept. and/or liability insurance company. If you want extra capacity for future expansion, indicate the % desired on line Z.

ITEM CODE	QTY.	MACHINE	DETAILS	PIPE CONN.	AIR FLOW CFM
A		Table Saw	Blade Dia.: Up to 12"	4"	350
B		Radial Arm Saw	Blade Dia.: Up to 12"	4"	350
C		Band Saw	Blade Width: 1/2"	3 or 4"	200 or 350
D		Miter Saw	Blade Dia.: Up to 12"	4 or 5"	350 or 550
E		Panel Saw	Blade Dia.: Up to 12"	3"	150
F		Disc Sander	Disc Dia.: Up to 12"	4"	350
G		Drum Sander	Drum Surface 200 sq. in.	4"	350
H		Edge Sander	Belt Width: 6"	4"	350
I		Stroke Sander	Belt Width: 6"	4"	350
J		Belt/Disc Combo Sander	Belt/Disc	4"	350
K		Wide Belt Sander	Belt Width: 36"	7"	1,000
L		Vertical Belt Sander	Belt Width: Up to 6"	5"	550
M		Router	Bit Size: 1/32" to 3/4"	4"	350
N		CNC Router	No. of Heads: ()	Per Mfrgr	Per Mfrgr.
O		Planer*	Knife Width: Up to 20"	6"	800
P		Jointer	Blade Width: Up to 6"	4"	350
Q		Shaper	Horse Power: Up to 1 HP	4"	350
R		Lathe	Use Plexiglass Deflector with horizontal hood behind bed or a floor sweep**	--	--
S		Drill Press	Use A Floor Sweep**	--	--
T					
U					
V					
W		Extra Capacity	% extra		
Total airflow of all machines:					

* If more than occasional use, do not use 55- gallon drums for waste storage. Use a dedicated indoor enclosureless dust collector, with plastic storage bag, next to the planer or outdoor dust collector with rotary airlock discharge, clearance stand & dumpster or other suitable container.

** A floor sweep is a branch (typically 5 or 6") that terminates with a wide hood at the floor. It is closed when not in use and therefore, is not included in computing total air volume.

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