

Safety Engineering Tables

TABLE 47-I (Concluded)

Vertical Single Spindle Disk Grinders (more than half covered)			Grinding and Polishing Belts and Straps (Note 5)	
Wheel Diam (In)	Pipes	CFM (Note 4)	Max Width (In)	CFM (Note 4)
Up to 20	1 (Note 3)	500	Up to 3	220
21-30	2 (Note 2)	790	5	300
31-53	2 (Note 2)	1,770	7	390
54-72	2 (Note 2)	3,140	9	500
			11	610
			13	740

From Exhaust Systems Industrial Code Rule 18 (April 1961) New York State Department of Labor

NOTE 1 "Polishing wheels" means made-up ' hard wheels faced with abrasive

NOTE 2 One branch pipe may be used wherever two or more branch pipes are required, provided the cross-sectional area of the single branch pipe is equal to the combined cross-sectional area of the required number of branch pipes and the air flow into the encircling hood is substantially uniform at all points

NOTE 3 "Half covered" means a minimum covering of not less than 50 percent of the open area over the top of the grinding wheel

NOTE 4 Local exhaust ventilation of high speed machinery shall provide such higher rates of air flow as may be necessary to control the contaminants

NOTE 5 The listed air flow rates are for short belts and straps (up to six feet on centers) which are completely covered except for the necessary working openings More than one pipe and higher air flow rate for longer belts or straps or for belts or straps which are essentially uncovered shall be provided where necessary to effect control

TABLE 47-J

EXHAUST REQUIREMENTS FOR WOODWORKING AND MISCELLANEOUS OPERATIONS

Pipe Sizes for Indicated Air Volume—Air Velocity is 4000 fpm											
Branch pipe diam (in)	3	4	4½	5	5½	6	7	8	9	10	12
Air volume (cfm)	200	350	440	550	660	800	1,100	1,400	1,800	2,200	3,100

From Exhaust Systems Industrial Code Rule 18 (April 1961) New York State Department of Labor