

Process	Air flow per outlet [m³/h]	Hose dimension [mm]	Capture velocity [m/s]	Air velocity in duct on unfiltered side [m/s]	Filter necessary	Air velocity in outlet duct [m/s]	Chimney height [m]
Grinding dust bench grinder/belt grinder	150	80	-	20 - 25	Yes	8 - 10	2 m above roof ridge
Grinding dust rotary grinder and more	100	28 - 32	-	20 - 25	Yes	8 - 10	2 m above roof ridge
Welding smoke non-alloyed steel(TIG)	1000	160	0,5	10 - 15	No	8 - 10	2 m above roof ridge
Welding smoke non-alloyed steel (MMA, FCA, MIG/MAG)	1000	160	0,5	10 - 15	Yes, depending on local regulation	8 - 10	2 m above roof ridge
Welding smoke alloyed steel (TIG)	1000	200	0,5	10 - 15	Yes, depending on local regulation	8 - 10	2 m above roof ridge
Welding smoke alloyed steel(MMA, FCA, MIG/MAG)	1500	200	0,5	10 - 15	Yes	8 - 10	2 m above roof ridge
Welding smoke aluminium (MIG/MAG, TIG)	1500	200	0,5	10 - 15	Yes, depending on local regulation	8 - 10	2 m above roof ridge
Laser/plasma cutting	Depending on size of cutting table [m² ]	-	1-2 m/s at cutting place	15 - 20	Yes	8 - 10	2 m above roof ridge
Exhaust gases - motor < 3000 cm²	400	100	-	10 - 12	No	5 - 8	2 m above roof ridge
Exhaust gases Motor > 3000cm²	1000	150	-	10 - 12	No	5 - 8	2 m above roof ridge
Exhaust gases Test stand	2000	200	-	10 - 12	No	5 - 8	2 m above roof ridge
Fumes from organic solvents and glue	2000	200	0,5	10 - 12	No	5 - 8	1 m above roof ridge
Oil mists, CNC milling machines	600	160	0,3	10 - 15	Yes	5 - 8	1 m above roof ridge
Oil mists, conventional machines	200	100	0,3	10 - 15	Yes	5 - 8	1 m above roof ridge
Soldering fumes	200	100	0,3	10 - 12	No	5 - 8	1 m above roof ridge
Laboratory/hospital	Enquire	Enquire	Enquire	10 - 12	No	5 - 8	1 m above roof ridge