

GEOVENT spot extraction guide - 2005

Process	Airflow per extraction point [m ³ /h]	Hose dimension [mm]	Capturing velocity [m/s]	Air velocity in channel on the unfiltered side [m/s]	Filter necessary	Air velocity in outlet [m/s]	Fan Outlet [m]	Suitable Geovent products	Note
Grinding dust belt sander	150	80	-	20 – 25	Yes	8 - 10	2 m above roof top	Ask	-
Grinding dust Rotor grinder etc.	100	28 – 32	-	20 – 25	Yes	8 – 10	2 m above roof top	HVU	-
Welding smoke lower grade steel (TIG)	1000	160	0,5	10 – 15	No	8 – 10	2 m above roof top	WING, COMPACT and MEF	Energy optimized components are recommendable
Welding smoke lower grade steel (MMA, FCA, MIG/MAG)	1000	160	0,5	10 – 15	More than one extraction point - yes	8 – 10	2 m above roof top	WING, COMPACT, MEF and GeoFilter GFA	Energy optimized components are recommendable
Welding smoke high grade steel (TIG)	1500	200	0,5	10 – 15	More than one extraction point - yes	8 – 10	2 m above roof top	WING, COMPACT, MEF and GeoFilter GFA	Energy optimized components are recommendable
Welding smoke high grade steel (MMA, FCA, MIG/MAG)	1500	200	0,5	10 – 15	Yes	8 – 10	2 m above roof top	WING, COMPACT, MEF and GeoFilter GFA	Energy optimized components are recommendable
Welding smoke aluminium (MIG/MAG, TIG)	1500	200	0,5	10 – 15	More than one extraction point - yes	8 – 10	2 m above roof top	WING, COMPACT, MEF and GeoFilter GFA	Energy optimized components are recommendable
Plasma / Laser – cutting	Depending on the size of the cutting table	-	2 at the cutting point	15 – 20	Yes	8 – 10	2 m above roof top	MEF and GeoFilter GFA	-
Exhaust extraction – motor < 3000 cm ²	400	100	-	10 – 12	No	5 - 8	1 m above roof top	Hose reel LX/FB or Channel Duct 25	Only idle
Exhaust extraction Motor > 3000 cm ²	1000	150	-	10 – 12	No	5 – 8	1 m above roof top	Hose reel LX/FB or Channel Duct 25	Only idle
Exhaust extraction Test stand	2000	200	-	10 – 12	No	5 – 8	1 m above roof top	GeoFlex HT and AU2 Hood	-
Fumes from solvents and glue	2000	200	0,5	10 – 12	No	5 – 8	1 m above roof top	Hose reel LX/FB or Channel Duct 25	Fan must be EEXe-II T3
Oil mist, CNC – processing centres	600	160	0,3	10 – 15	Yes	5 – 8	1 m above roof top	GeoFilter OIL 160	One filter per extraction point
Oil mist, conventional mills and lathes etc.	200	100	0,3	10 – 15	Yes	5 – 8	1 m above roof top	GeoFilter OIL100 and ASA-2	One filter per extraction point
Soldering fumes	200	100	0,3	10 – 12	No	5 – 8	1 m above roof top	FLEXI or MINI	-
Laboratory, hospital	Ask	Ask	Ask	10 - 12	No	5 – 8	1 m above roof top	FLEXI	-