



Easy oil mist elimination

Cost effective
oil mist
removal



Easy to install
and maintain



Low energy
consumption



Made in the UK



Cost Effective Oil Mist Removal

What is oil mist?

Oil mist is created by machine tools spraying high pressure oils and coolants onto metal components to keep them cool during manufacturing operations including milling, drilling, turning and grinding.



Why is oil mist dangerous?

If oil mist is left in the atmosphere it can cause breathing related illnesses including asthma, lung disease and even cancer.

As well as being a hazard to human health, oil mist can be a slip hazard and major fire risk if not properly removed from the working environment. It can also damage electrical equipment resulting in unnecessary production downtime.



Why choose Infinity?

Manufactured in the UK to the highest standards, Infinity filters are the easy way to eliminate oil mist from workshop air.

Infinity offers proven reliability for manufacturers - protecting machine operators from harmful airborne oil mist particles and providing a pleasant working environment.



Easy to install and use



Robust and reliable



Easy and cheap to maintain – no service engineers required



High performance oil mist removal at low cost



Designed and manufactured in the UK





How it Works

The technology within Infinity oil mist filters

- 1 Infinity oil mist filters use a specially designed fan that is directly coupled to a three phase motor.
- 2 The fan generates airflow which sucks in oil mist from the machine tool through an inlet and forces it over a cylindrical pleated filter pack.
- 3 The high grade washable synthetic filter media collects the oil mist, and the airflow pushes the clean air out of the unit and back in to the factory.



Infinity filters are available in three sizes:



66²

Infinity 66² is designed for small to medium sized machines and has an airflow of



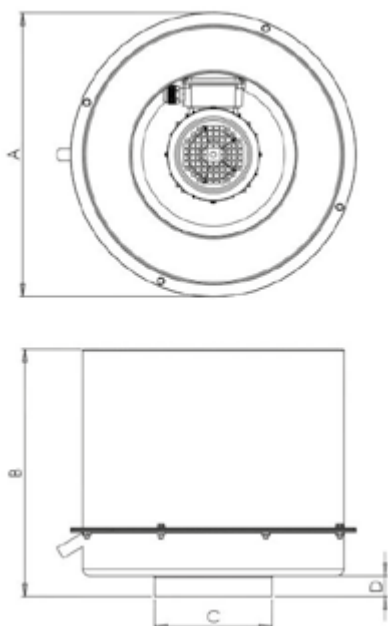
77²

Infinity 77² is ideal for mid-size machines and has an airflow of 1000 m³/hr



88²

Infinity 88² is perfect for larger machines and has an airflow of 1800 m³/hr

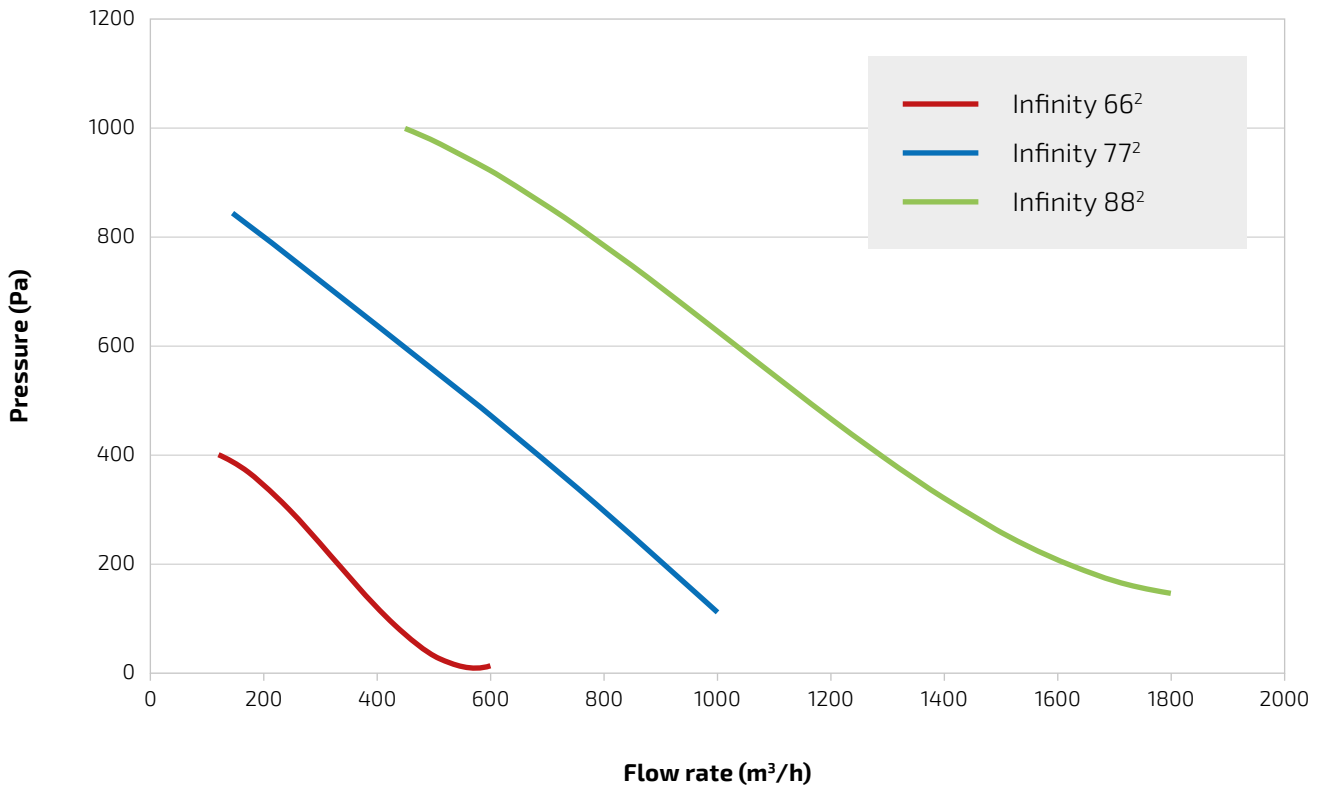


	Infinity 66 ²	Infinity 77 ²	Infinity 88 ²	
Dimensions	A	370	401	483
	B	287	381	466
	C	148	148	198
	D	35	35	35
Airflow (m ³ /hr)	600	1000	1800	
Motor size (kW)	0.18	0.55	1.1	
Voltages (V)	230/400 V 50 Hz	230/400 V 50 Hz	230/400 V 50 Hz	
Weight (kg)	11	18	24	
Noise (dB)	62	65	71	

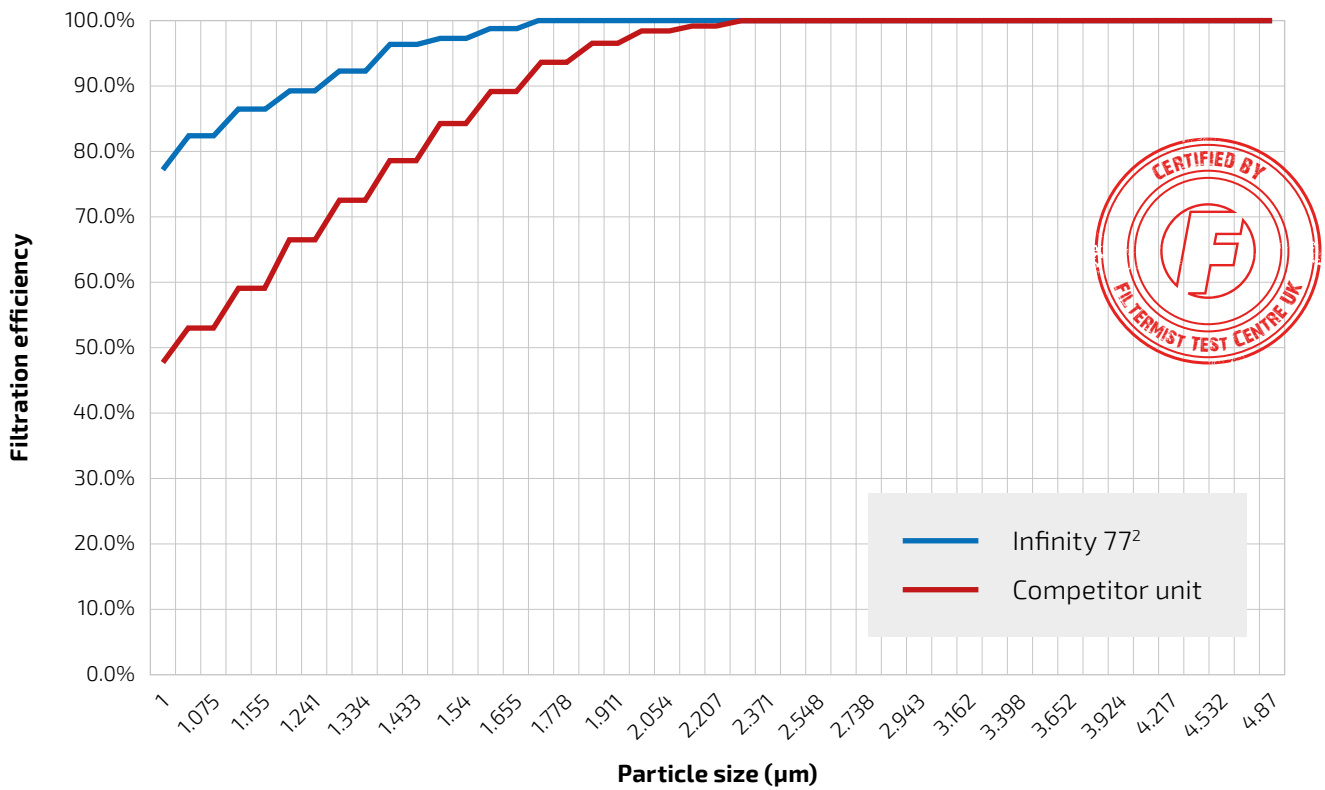
All Infinity oil mist collectors comply with the RoHS (Restriction of Hazardous Substances) Directive 2002/95/EC and the company is complying with the requirements of REACH (Registration, Evaluation & Authorisation of Chemicals) EC No. 1907/2006.

The British manufacturer is certified to ISO 9001:2015 and ISO 14001:2015.

Pressure graph for Infinity units - pressure (Pa) v airflow (m³/hr)



Infinity 77² performance compared with comparable competitor



Power	0.18 kW		0.55 kW		1.1 kW	
Type	0.1823TECAB14-56-INF MS 563-2		0.5523TECAB14-INF MS 712-2		1.123TECAB14-IE2-INF MS2 802-2	
Frame	56		71		80	
Speed	2750 rpm @ 50 Hz	3300 rpm @ 60 Hz	2760 rpm @ 50 Hz	3310 rpm @ 60 Hz	2860 rpm @ 50 Hz	3430 rpm @ 60 Hz
Supply	3 Phase 230/400 50 Hz	276/480 60 Hz	3 Phase 230/400 50 Hz	276/480 60 Hz	3 Phase 230/400 50 Hz	276/480 60 Hz
Efficiency Class	IE1		IE1		IE2	
Rated current	Low Voltage (50/60) – 1.02/1.02 A	High Voltage (50/60) – 0.59/0.59 A	Low Voltage (50/60) – 2.45/2.45 A	High Voltage (50/60) – 1.42/1.42 A	Low Voltage (50/60) – 4.11/4.11 A	High Voltage (50/60) – 2.37/2.37 A
Start-up current	6.12 (YY) / 3.54 (Y)		14.7 (YY) / 8.52 (Y)		24.66 (YY) / 14.2 (Y)	
No load current	0.58 (YY) / 0.36 (Y)		1.63 (YY) / 0.94 (Y)		2.66 (YY) / 1.53 (Y)	
Connection	YY – Low Voltage	Y – High Voltage	YY – Low Voltage	Y – High Voltage	YY – Low Voltage	Y – High Voltage
Mounting	Face Mounting - B14		Face Mounting - B14		Face Mounting - B14	
Enclosure	IP55		IP55		IP55	
Terminal box	As per drawing		As per drawing		As per drawing	
Cable gland	M16		M20		M20	
Hot locked rotor test	1.55 Nm		5.66 Nm		12.69 Nm	
Paint finish	Grey RAL 7024		Grey RAL 7024		Grey RAL 7024	
Insulation class	F		F		F	
Temperature rise	B		B		B	
Duty	S1-100 %		S1-100 %		S1-100 %	
Shaft balance	Half key balance		Half key balance		Half key balance	
Shaft concentricity	Normal (according to DIN 42955)		Normal (according to DIN 42955)		Normal (according to DIN 42955)	
Bearing size NDE	6201 ZZ		6202 ZZ		6204 ZZ	
Bearing size DE	6201 ZZ		6202 ZZ		6204 ZZ	
Noise level	61 dB(A)		64 dB(A)		67 dB(A)	
Service factor	1		1		1	
Power factor	0.75		0.79		0.83	
Weight	4 kg		6 kg		10.57 kg	

Pre-filters and Afterfilters

Some applications may require an additional stage of filtration. Infinity filters can be installed with pre-filters and afterfilters, depending on the nature of the installation.

Pre-filters

Pre-filters contain an integral tray holding a sheet of filtration material or metal mesh which can be washed or replaced. They can be used to protect the Infinity unit where this is a heavy contamination level, such as in grinding applications.



Afterfilters

Afterfilters are designed to remove oil smoke and any residual fine mist particles (below 0.5µ) which may not have been fully captured by the Infinity unit.



Mounting Options

Compact and lightweight, Infinity oil mist filters can be directly mounted onto the machine tool or fixed onto a machine bracket – whatever option is best for you.



Applications

Infinity filters offer efficient oil mist removal for a range of manufacturing operations including grinding (when used with a pre-filter), lathes and machining centres.



Manufactured in the UK



Infinity oil mist filters are manufactured to the highest standards by Filtermist International in Shropshire in the UK. Oil mist removal specialist Filtermist was established in 1969 and its products are now trusted by leading manufacturers in more than 60 countries worldwide.

Filtermist's skilled technicians manufacture Infinity units using traditional metal working techniques including spinning and welding, and every filter is thoroughly tested before being dispatched.





Contact your local distributor
to find out more



www.filterinfinity.com