
ICARUS

Air Filtration

Oil mist extractor



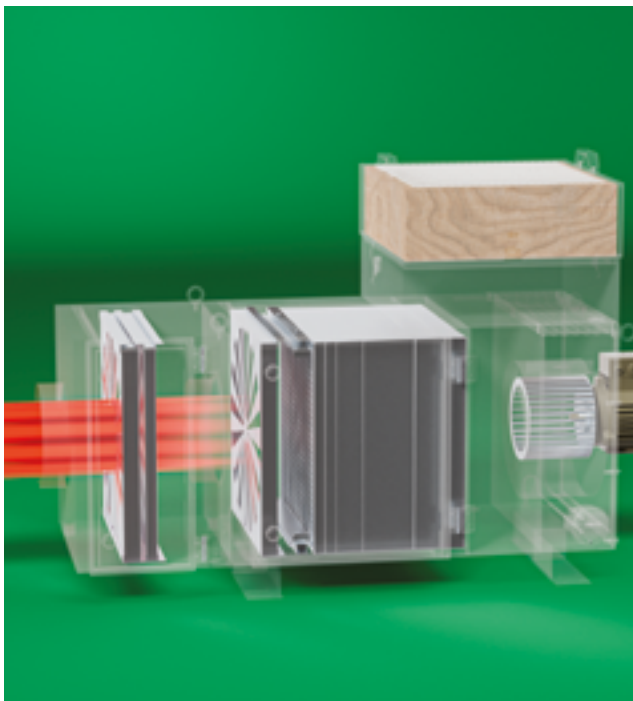
Icarus

Icarus is a static extractor for purifying air containing oil mists, micro-mists and fumes from cutting fluids (emulsions or neat oil). It can be used on all types of machine tools and in all removal machining processes.

It is available in three construction sizes with flow rates from 600 to 2000 m³/h and various combinations of increasing filtration efficiency, up to 99.95% (using an H13 absolute HEPA pre-filter according to EN 1822).

Losma guarantees that each extractor is tested through strict control procedures.

A quality and functional test certificate is issued for each unit.



Operation Video

Discover how it works in detail. Watch the descriptive video about the Icarus range.

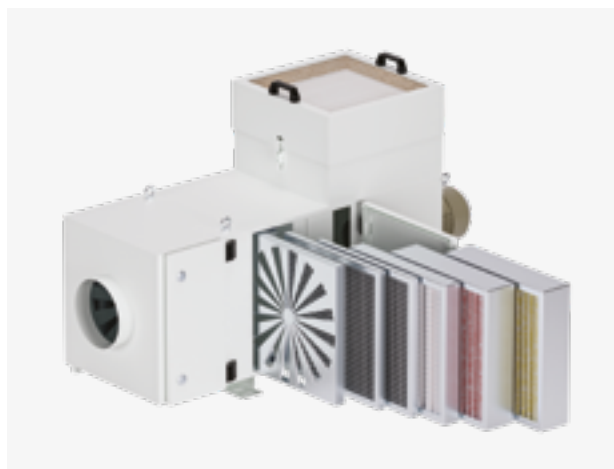
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FILTER SEQUENCE SUPPLIED

The arrangement of the internal filters in Icarus has been designed to offer increasing filtration efficiency.

The filters are easily accessible by removing the retaining screws and opening the side door, allowing easy, fast and clean maintenance.



1. G2 METAL

This is a washable metal cell with an aluminium mesh filter medium.

ISO Coarse efficiency of 30% according to ISO 16890.

3. F7 MICROFINE GLASS FIBRE

Cell with pleated microfine glass fibre medium.

ISO ePM1 efficiency of 60% according to ISO 16890.

2. G3 SYNTHETIC

This is a synthetic polyester filter medium with low efficiency.

ISO Coarse efficiency of 80% according to ISO 16890.

4. F9 MICROFINE GLASS FIBRE

Cell with pleated microfine glass fibre medium.

ISO ePM1 efficiency of 80% according to ISO 16890.
(*also available with H13 HEPA FILTER on request).

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4.



Plus

APPLICATION VERSATILITY

Icarus offers an effective solution for a variety of industrial applications.

QUICK AND EASY MAINTENANCE

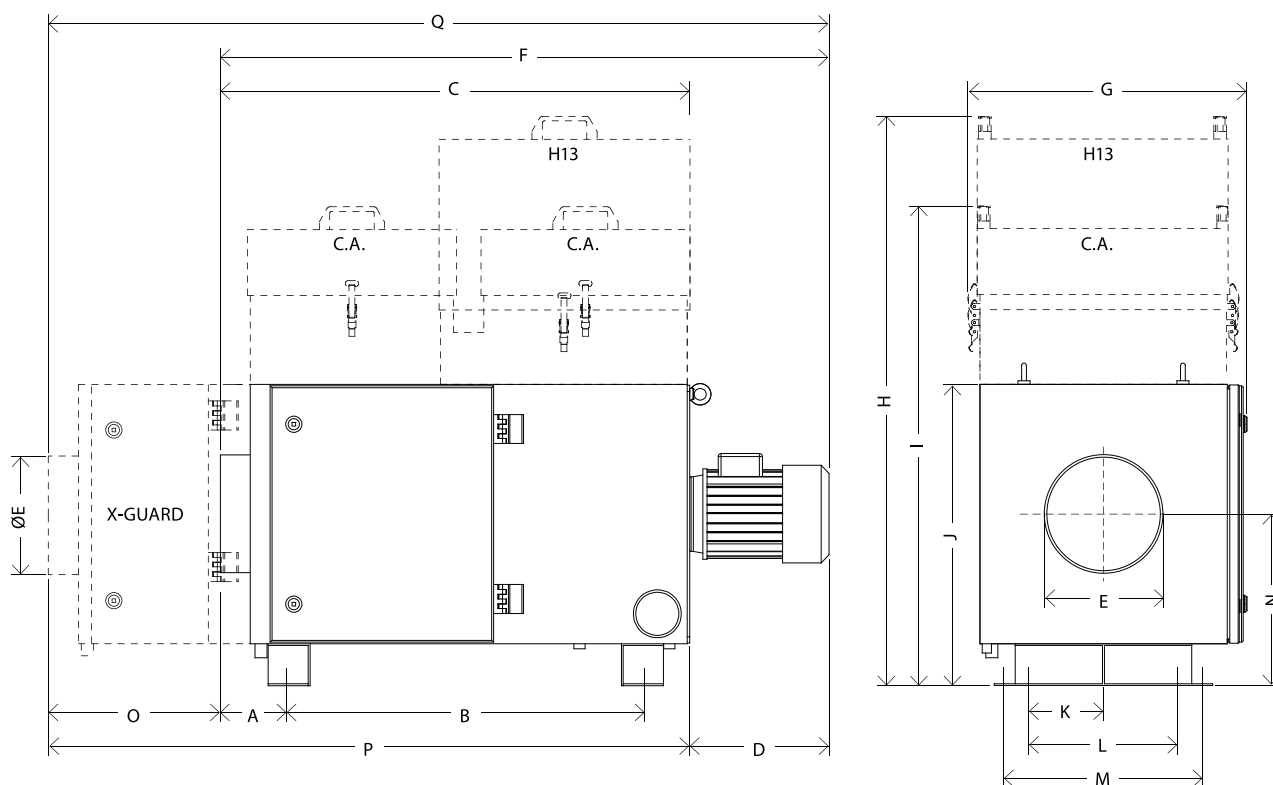
Access to the filter section is really simple and immediate, without the need to unscrew or dismantle anything. Just open the door with two locks for easy access to the filters, which can be removed and replaced very quickly and easily.

PRESSURE GAUGE

As standard, Icarus is equipped with an accurate instrument for reading the clogging state of the internal filters.



Icarus



Models	Dimensions (mm)																	Net Weight (kg)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
Icarus S	110	500	660	210	148	870	450	930	785	505	125	250	365	290	287	897	1107	52
Icarus M	110	600	785	235	198	1020	450	930	785	505	125	250	365	290	287	997	1232	57
Icarus L	170	600	815	270	198	1095	570	1050	905	625	125	250	365	350	287	1047	1317	81

Models	Maximum air flow rate * (m³/h) 50/60 Hz		Pressure (Pa)		Power (kW)		Suction inlet (mm)	Maximum Noise (dba)
	From	To	From	To	50 Hz	60 Hz		
Icarus S	600	670	580	800	0,37	0,44	150	68,1
Icarus M	1050	1150	1000	1400	0,75	0,75	200	69,9
Icarus L	1600	1850	1080	1500	1,5	1,5	200	71,5

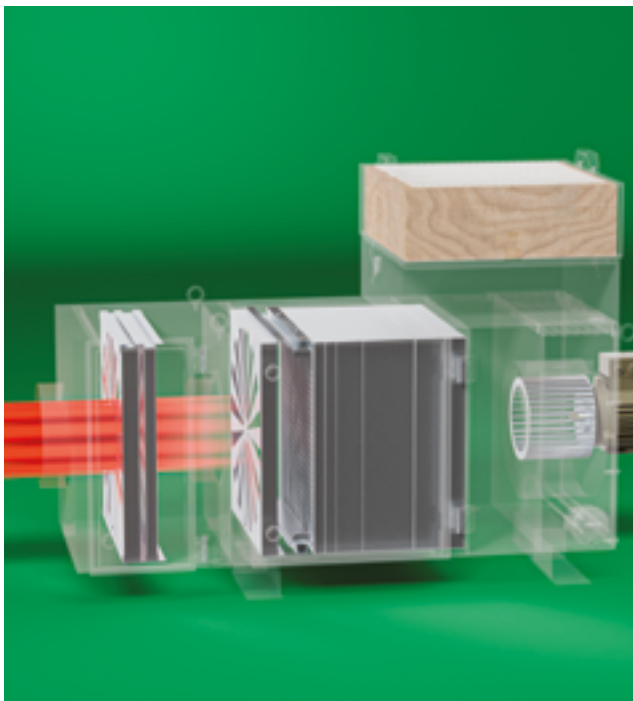
* free inlet, STD filters, no H13

Icarus-E

Icarus-E is an electrostatic extractor for purifying air containing oil mists, micro-mists and fumes from all main removal machining processes that use neat oil as a cutting fluid.

It is available in three construction sizes with flow rates from 600 to 1700 m³/h and various combinations of increasing filtration efficiency, up to 99.95% (using an H13 final HEPA filter).

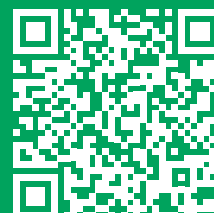
The standard equipment supply includes an EC-compliant electrical cabinet that incorporates a clogging indicator light, power indicator light and safety microswitch.



Operation Video

Discover how it works in detail. Watch the descriptive video about the Icarus range.

Scan the QR Code.



FILTER SEQUENCE SUPPLIED:

The arrangement of the internal filters in Icarus Electrostatic has been designed to offer increasing filtration efficiency. For the M and L sizes, the G2 metal filter + electrostatic cell sequence is repeated twice. The filters are easily accessible by removing the retaining screws and opening the side door, allowing easy, fast and clean maintenance.



1. G2 METAL

This is a washable metal cell with an aluminium mesh filter medium. ISO Coarse efficiency of 30% according to ISO 16890.

2. F7 MICROFINE GLASS FIBRE

Cell with pleated microfine glass fibre medium.

ISO ePM1 efficiency of 60% according to ISO 16890.

3. ELECTROSTATIC CELL

This is a filter medium that exploits the electrostatic field generated by ionization and capture plates inside it. Electrostatic cells produce less ozone during operation.

Efficiency of 99% according to ISO 779.

1.



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3.



Plus

VERSATILE AND MODULAR

The option of using pre- and post-filtration systems mean that Icarus-E can be applied in a variety of mechanical machining processes, from the simplest to the most demanding. The three different construction versions and the extractions powers of the Icarus-E filter also make it easy to choose a solution that is always the best fit for the customer's needs.

QUICK AND EASY MAINTENANCE

Access to the filter section is really simple and immediate, without the need to unscrew or dismantle anything. Just open the door with two locks for easy access to the filters, which can be removed and replaced very quickly and easily.

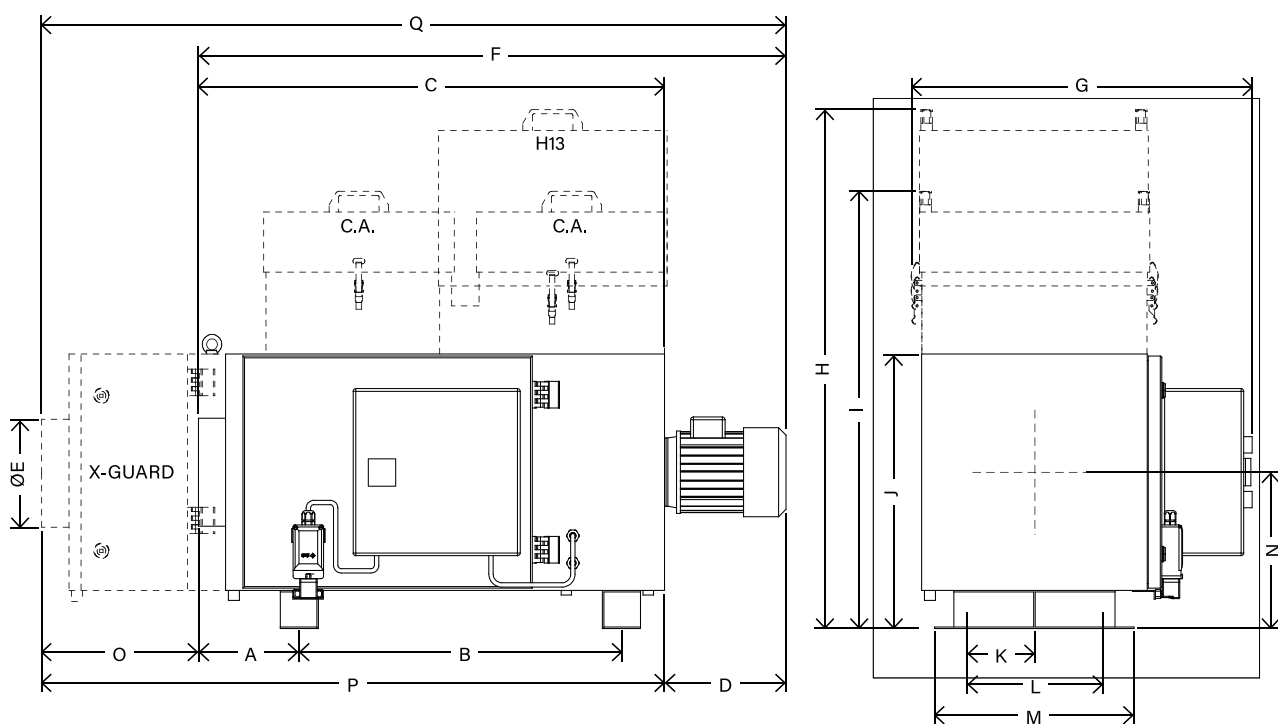
WASHABLE AND REGENERABLE

The electrostatic cells installed in Icarus-E are washable and therefore reusable, offering considerable savings in the maintenance and disposal of normal clogged filters.

* In the Icarus-E S version, pre-filtration consists of an F7 filter.



Technical Data



Models	Dimensions (mm)																	Net Weight (kg)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
Icarus ES	1380	500	655	210	148	865	450	930	785	505	125	250	365	290	287	942	1152	52
Icarus EM	180	600	855	235	198	1105	450	390	785	505	125	250	365	290	287	1157	1392	57
Icarus EL	160	600	855	270	198	1215	570	1050	905	625	125	250	365	350	287	1172	1442	81

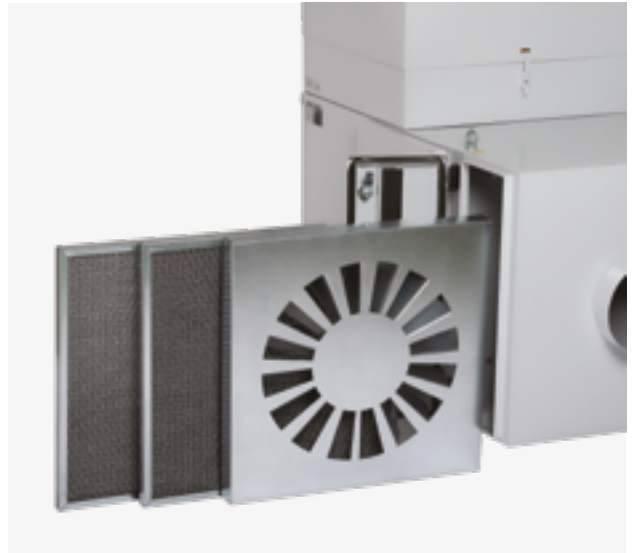
Models	Maximum air flow rate * (m ³ /h) 50/60 Hz		Pressure (Pa)		Power (kW)		Suction inlet (mm)	Maximum Noise (dba)
	From	To	From	To	50 Hz	60 Hz		
Icarus ES	600	670	580	800	0,37	0,44	150	68,1
Icarus EM	1050	1150	1000	1400	0,75	0,75	200	69,9
Icarus EL	1600	1850	1080	1500	1,5	1,5	200	71,5

* free inlet

Optional

1. X-Guard Pre-Filter

This is a pre-filter for chips and dusts, with metal and synthetic filtration stages. It serves to maximise extraction efficiency when there is a lot of oil mist mixed with dusts and metal chips.



2. H13 HEPA Post-Filter

This can achieve very high filtration levels, up to 99.95% according to EN 1822. It is especially suitable where there are micro-mists or fumes.

