

Oil stop

Extraction and filtration unit for oil mist exhaust



Oil stop

Oil stop **1-2-4-6-8**
Oil stop **R 1-2-4-6-8**
Oil stop **RH 1-2-4-6-8**
Oil stop **RHT 1-2-4-6-8**

Design

The compact Oil Stop filter unit is perfect for extraction and filtration of oil mists. It's equipped with a centrifugal helical pre separator, droplet separator, metal mesh filter and finally with pocket filters that guarantee maximum air purification with collection of oil.

Oil stop

20 Models

Helical pre separator

Fan

differential pressure gauge

3 filter stages

Oil collection bin

Adjustable feet



Highlights

- **Highest efficiency** due to high-quality filter materials for up to 99.95 % filtration.
- **Plug & Play** solution, no installation required.
- Filter clogging **differential pressure** gauge.
- The centrifugal **helical pre separator** (patented by Coral) ensures a longer service life for all filter stages and reduces maintenance costs.
- If odour reduction is also required, **filters with activated carbons** integrated in the unit or within the plenum.
- In addition, **H13&H14 absolute filters** integrated in the unit or inside the plenum are supplied on request.
- **Extremely quiet.**
- Low **maintenance** costs and **easy** replacement of filters.

Applications



Oil mists

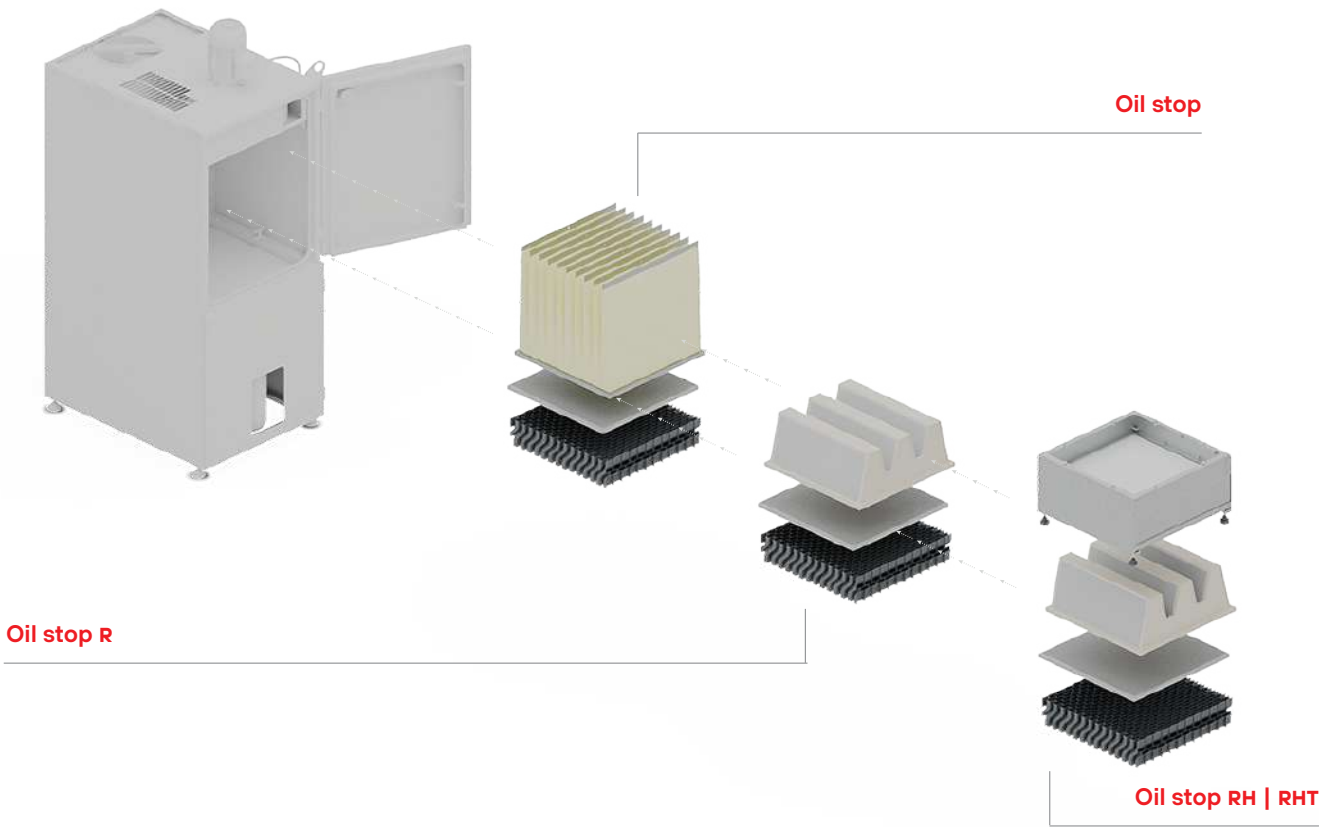
Clean air solutions

Oil Stop units are designed to effectively remove oil mists and fumes in various industrial contexts, from mechanical to food processing. They are suitable for machinery such as lathes, CNC, grinding machines, printing machines, and also for food plants with vegetable oil mist. Made of high-efficiency materials (G2 prefilter and F9 main filter), they offer up to 95% filtration, with the possibility of up to 99.95% with HEPA H13 and H14 filter.

On request, they can include activated carbons to eliminate specific odours, selected according to the composition of the pollutants. In addition to their effectiveness, they stand out for their quietness, due to the internal structure and fairing. For even more noise-sensitive environments, sound-proofing accessories such as the soundproofing plenum or the AFON silencer are available.



Filtration technology

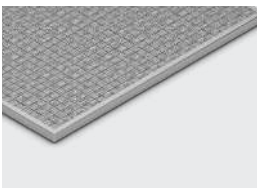


Filter Media

MEDIA			MATERIALS	Oil stop	Oil stop R	Oil stop RH	Oil stop RHT
	DROPLET SEPARATOR			■	■	■	■
(EN 779) G2	PRE-FILTER		METAL	■	■	■	■
(EN 779) F9	POCKET FILTER		GLASS MICROFIBER	■			
(EN779) F9	RIGID POCKET FILTER		GLASS MICROFIBER		■	■	■
(EN 779) H13	ABSOLUTE HEPA FILTER		GLASS MICROFIBER			■	■



Droplet separator



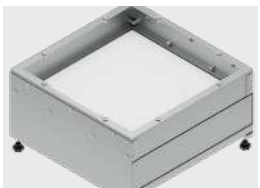
Metal mesh pre-filter



Pocket filter



Rigid pocket filter

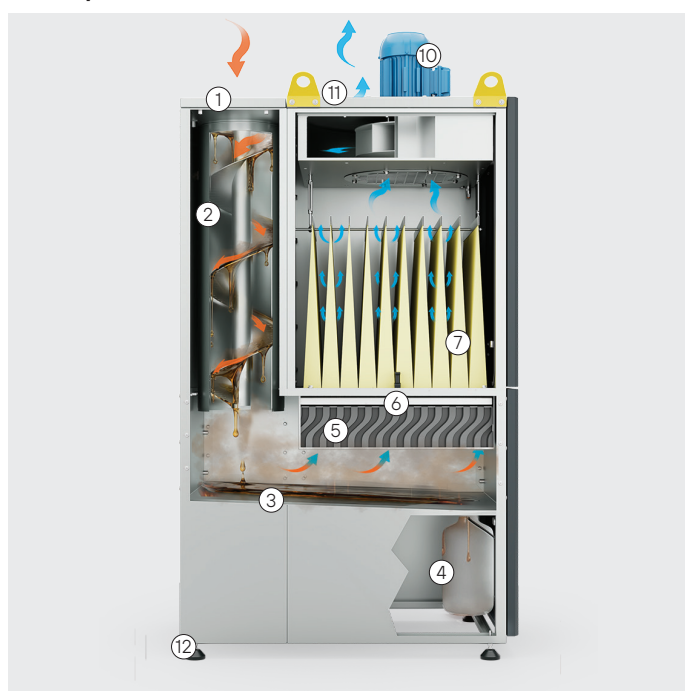


Absolute HEPA filter

Principle of operation

Polluted air by oil mist is initially treated in a mechanical separator consisting of a centrifugal helical pre separator inside a pipe lined with a metal mesh. In this pre-filtration phase, the centrifugal force generated by the fan causes the greasy droplets to hit the walls of the channel, where the wire mesh prevents them from flowing back into the air stream, causing them to slide towards the collection hopper instead. This step removes the larger oil particles in the air almost completely, before it passes through the droplet separator, the metal mesh pre-filter and then a pocket filter. Due to the efficiency of the mechanical droplet separator and the prefilter, the air is already free of medium to large oil droplets. Finally, to remove the last impurities such as micro mists and greasy vapours, the air passes through a high surface area pocket filter. The collected oil is conveyed into a small bin or evacuated through a siphon with continuous discharge, to be eventually recycled. The air thus purified is then exhausted through a grille at the top of the unit. In the **OIL STOP/R** or **RH** models, also through a HEPA filter.

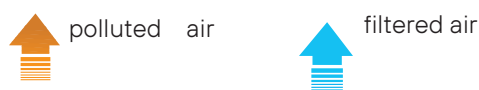
Oil stop



Oil stop R



Oil stop RH | RHT



- ① Oil mist inlet
- ② Centrifugal separator
- ③ Oil drain hopper
- ④ Oil collection bin
- ⑤ Droplet separator
- ⑥ Metal mesh pre-filter
- ⑦ Pocket filter
- ⑧ Rigid pocket filter
- ⑨ Absolute HEPA filter
- ⑩ Fan
- ⑪ Filtered air outlet
- ⑫ Levelling feet

Product range



oil stop

Complete with pocket filter, suitable for filtration of oil mists from emulsions.



oil stop R

Complete with rigid pocket filter, suitable for filtration of oil mists from emulsions.



Oil stop RH

Complete with rigid pocket filter and HEPA absolute filter H13, suitable for filtration of oil mist from emulsions.



Oil stop RHT

Complete with rigid pocket filter and HEPA absolute filter H13, suitable for filtration of whole oil fumes.

Technical features

Technical features		Model OIL STOP															
		OIL STOP R					OIL STOP RH					OIL STOP RHT					
		1	2	4	6	8	1	2	4	6	8	2	4	6	8		
Power	kW	0,75	1,5	3	4	5,5	0,75	1,5	3	4	5,5	1,5	3	4	2x3		
Nominal Air Flow	m³/h	1000	2400	3600	5400	7000	800	1800	3000	5000	6650	1800	3750	5700	7500		
Nominal max.	m³/h	1500	3000	4000	6000	7500	1200	2000	3500	5500	7000	2000	4000	6000	8000		
Filtering Surface	m2	6,65	6,65	10,6	15,4	21,2	14	14	28	28	56	28	28	56	56		
Filtration efficie y		95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%		
Bin storage capacity	lt	1x5	1x5	1x5	1x5	1x5	1x5	1x5	1x5	1x5	1x5	1x5	1x5	1x5	2x5		
R.P.M.		2950					2950					2950					
Fan Voltage STD	V	400					400					400					
	Hz	50					50					50					
Noise level	dB	74	78	86	83	84	74	76	85	82	83	75	85	82	83		
Noise level with soundproofing plenu	dB	71	74	80	77	78	71	73	79	76	77	72	79	76	77		
Total weight	kg	160	180	230	350	400	165	195	250	370	430	240	360	450	750		
Static pressure	mmH2O	27	47	70	73	90	27	50	70	70	90	55	85	90	100		



Standard Components

Oil stop | R | RH | RHT



Filter clogging differential pressure gauge

Oil stop | R | RH | RHT



Thermal switch ON/OFF

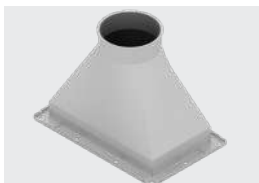
Oil stop | R | RH



Oil collection bin

Options

Oil stop | R | RH | RHT



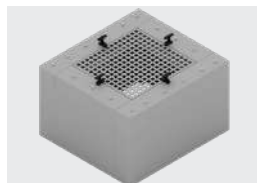
Inlet connection

Oil stop | R | RH | RHT



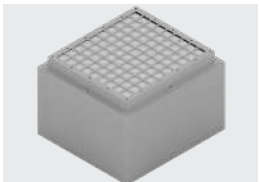
Outlet connection

Oil stop | R | RH | RHT



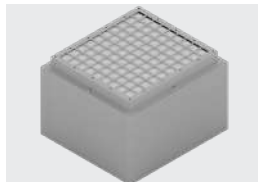
Soundproofed plenum with mesh

Oil stop | R | RH | RHT



Soundproofed plenum with activated charcoal

Oil stop | R | RH | RHT



Plenum box with HEPA H13 & HEPA H14 filters

Oil stop | R | RH | RHT



Differential pressure switch with free contact for filter clogging signal



Oil stop | R | RH | RHT



Control panel with differential pressure switch management

Oil stop | R | RH | RHT



AFON silencer + air diffuser kit

Oil stop | R | RH | RHT



Adaptor for silencer and air diffuser

Oil stop | R | RH | RHT



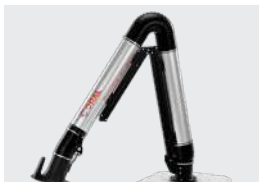
Drain siphon

Oil stop | R | RH | RHT



Wheel kit with base

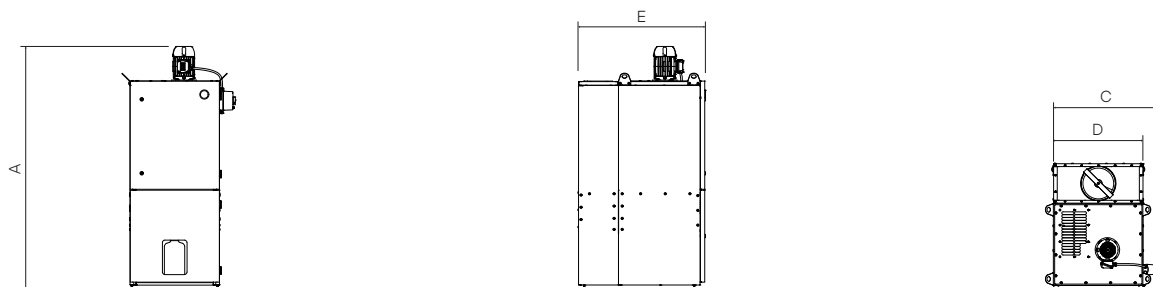
Oil stop | R | RH | RHT



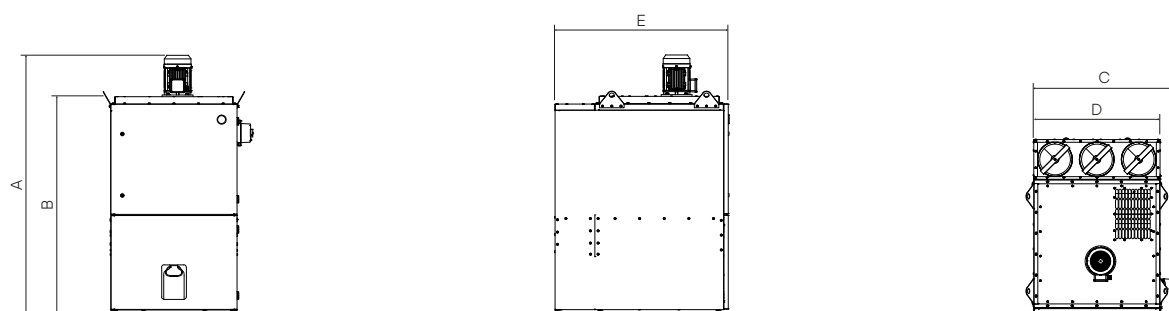
Arm Evolution No Smoke

Overall dimensions

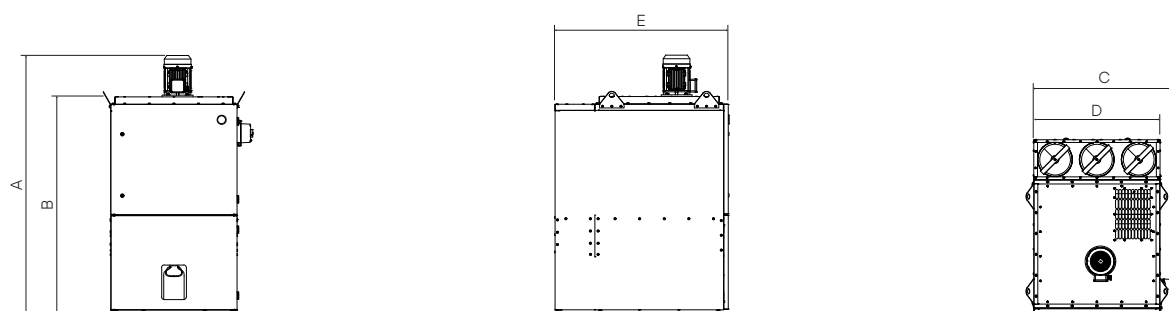
OIL STOP 1-2 | R 1-2 | RH 1-2



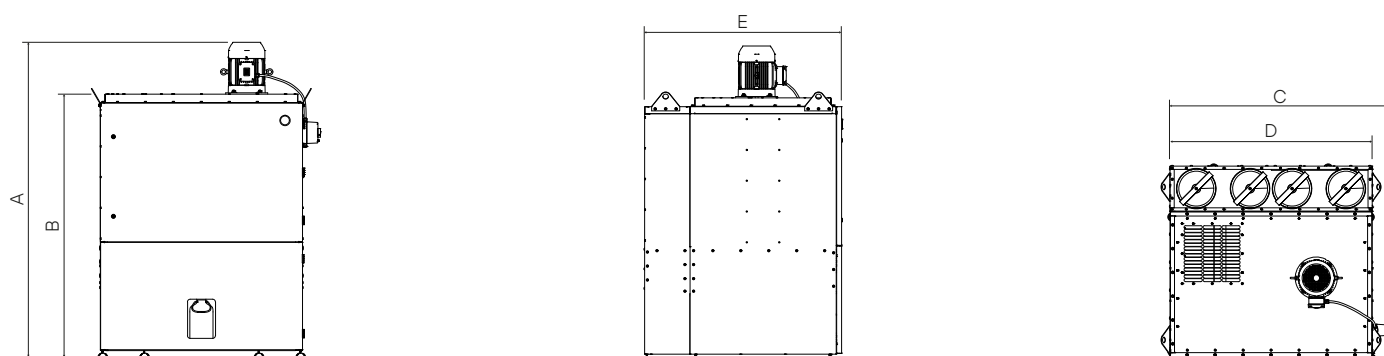
OIL STOP 4 | R 4 | RH 4 | RHT 2



OIL STOP 6 | R 6 | RH 6 | RHT 4

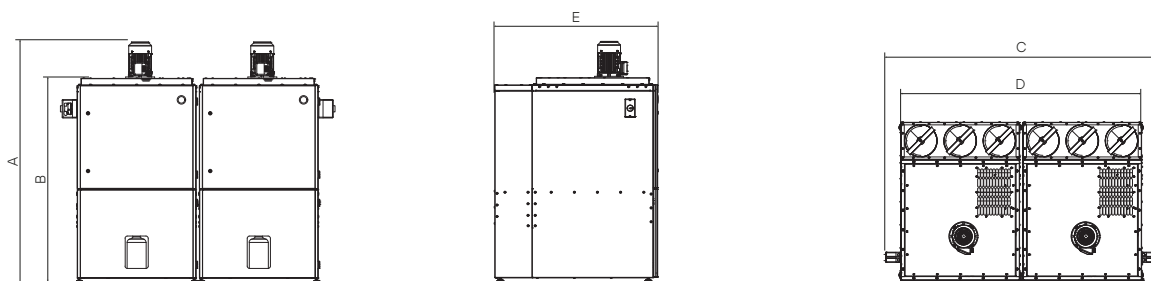


OIL STOP 8 | R 8 | RH 8 | RHT 6



Overall dimensions

OIL STOP RHT 8



MODEL	DIMENSIONS (mm)				
	A	B	C	D	E
Oil stop 1 R 1 RH 1	1934	1698	872	726	1030
Oil stop 2 R 2 RH 2	1979	1698	872	726	1030
Oil stop 4 R 4 RH 4 RHT 2	2010	1696	872	726	1415
Oil stop 6 R 6 RH 6 RHT 4	2110	1776	1172	1026	1413
Oil stop 8 R 8 RH 8 RHT 6	2255	1876	1592	1446	1415
Oil stop RHT 8	2090	1776	2374	2082	1413

Packaging information



MODEL	PLATFORM N.	DIMENSIONS (mm) AxBxH	WEIGHT (kg)
Oil stop 1 R 1 RH 1	1	1200 x 800 x 2100	180
Oil stop 2 R 2 RH 2	1	1200 x 800 x 2100	180
Oil stop 4 R 4 RH 4 RHT 2	1	1500 x 800 x 2100	360
Oil stop 6 R 6 RH 6 RHT 4	1	1550 x 1150 x 2300	520
Oil stop 8 R 8 RH 8 RHT 6	1	1550 x 1500 x 2400	510
Oil stop RHT 8	2	1500 x 1200 x 2400	700

MODEL Soundproofing plenum	PLATFORM N.	DIMENSIONS (mm) AxBxH	WEIGHT (kg)
Oil stop 1 R 1 RH 1	1	800 x 800 x 700	40
Oil stop 2 R 2 RH 2	1	800 x 800 x 700	40
Oil stop 4 R 4 RH 4 RHT 2	1	1200 x 800 x 700	60
Oil stop 6 R 6 RH 6 RHT 4	1	1100 x 1100 x 700	80
Oil stop 8 R 8 RH 8 RHT 6	1	1500 x 1100 x 700	100
Oil stop RHT 8	2	1200 x 1200 x 800	200

All images and values on this catalogue are indicative and can be subject to modification and improvements. CORAL reserves the right to change them without previous advice.



Made in Coral

Coral manufactures 100% of all the components that are part of an industrial extraction system within their facilities in Volpiano, just outside of Turin. The quality of materials that we use and our industry experience guarantee a production of high level in everything we make.

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