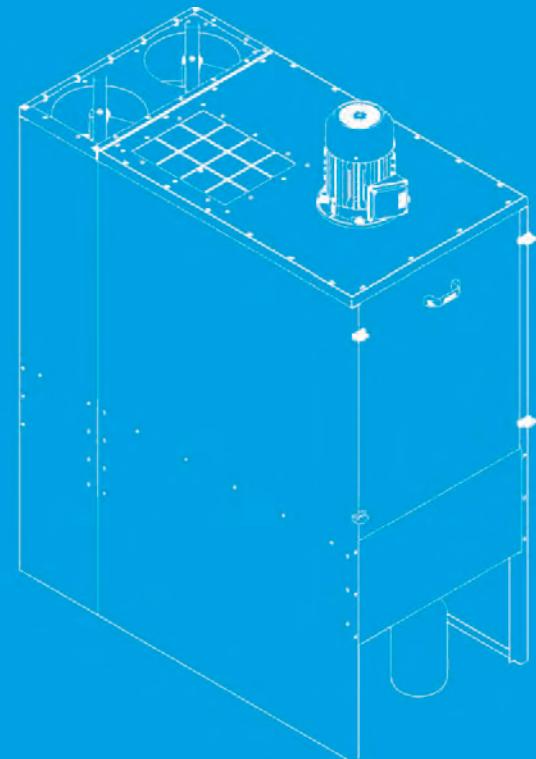




Filter Unit For Oil Mist

# Oil STOP Oil STOP/M



ANTI POLLUTION SYSTEMS

# Oil Stop -Oil Stop/M

## > APPLICATIONS



OIL STOP 4



OIL STOP 6



OIL STOP 8

**MACHINE TOOLS:** multiple machining lathes, CNC, threading machines, gear cutting machines, grinding machines, cold pressing machines, etc.

**FOOD INDUSTRY:** vegetable oil fog spraying machines, alimentary paste machines, etc. **OTHER APPLICATIONS:** turbines, compressors, pumps, nebulizers etc.

### • **BENEFITS**

#### • **MAXIMUM EFFICIENCY**

The filtering media class G2 (pre filter) and F9 (main filter) used in the OIL STOP construction, perform a very high filtration level of 95%, with peak up to 99,95% with HEPA filter (H13).

If unpleasant odours are to be removed, the OIL STOP can be equipped as optional of a charcoal filter integrated in the soundproofed fan box. For specific application in odours removal the detailed composition of the pollutant is required to supply the correct filtration.

#### • **QUIET OPERATION**

Due to the layout of its filters, their remarkable absorbing power and the special streamline, the OIL STOP can be used in any environment without causing acoustic pollution. Where very low noise levels are required, optional AFON model silencers or soundproofed fan box can be supplied.

# Oil Stop -Oil Stop/M

## > PRINCIPIO DI FUNZIONAMENTO

PRINCIPE DE FONCTIONNEMENT | OPERATING PRINCIPLE | FUNKTIONSPRINZIP | PRINCIPIO DE FUNCIONAMIENTO



OIL STOP 2



OIL STOP/R2



OIL STOP/RH2



OIL STOP/M 2



OIL STOP/M 3

## Oil STOP - Oil STOP/M

The polluted air with the oil mist from the machine application enters the OIL STOP and passes through the first stage centrifugal/mechanical separating chamber, which is comprised of a helicoidal system and a metal screen. The centrifugal inlet chamber has the same cross section as the intake opening thereby reducing the possibility of pressure drop. Due to the centrifugal force created by the airspeed inside the centrifugal separator, the heavy mist impacts the helicoidal insert and separates from the air. The screen in the chamber prevents from re-entering the air flow, and drives it to slide along the walls of the chamber and fall below by gravity, onto the oil collection hopper. Oil is then collected in a small tank or through a syphon for continuous discharge and recycled if required.

A large portion of the oil droplets in suspension at this point have been separated, and the air now passes through the mechanical drop separator (Optional in the OIL STOP, OIL STOP R and RH. Standard in the M, MR and MRH version) and the wire metal mesh pre-filter.

Due to the efficient operation of these three levels of filtration, all oil mist has been removed from the air stream.

To further remove any possible remaining impurities, like micro mists and oil vapors/fumes, the air passes through a high efficiency pleated filter, which is made of ultra fine glass fiber filtering material and finally crossing the HEPA filter (OIL STOP/RH and MRH models). The air is finally exhausted through the discharge grate located on the top of the OIL STOP.



▲ OIL STOP/M 5



▲ OIL STOP/M 6 special version

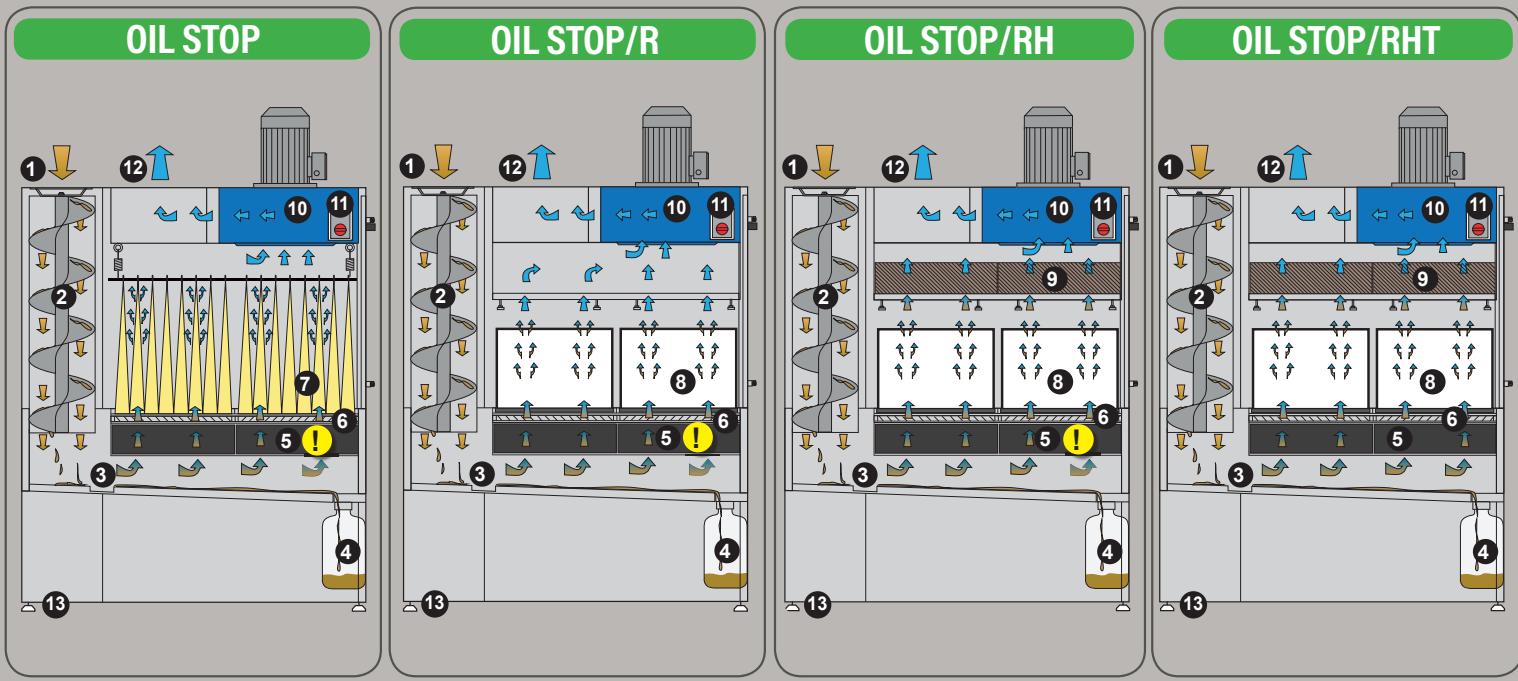


▲ OIL STOP 6  
• with control panel (OPTIONAL) and  
soundproofed (OPTIONAL)

# Oil Stop -Oil Stop/M

## > OPERATING PRINCIPLE

### Oil Stop

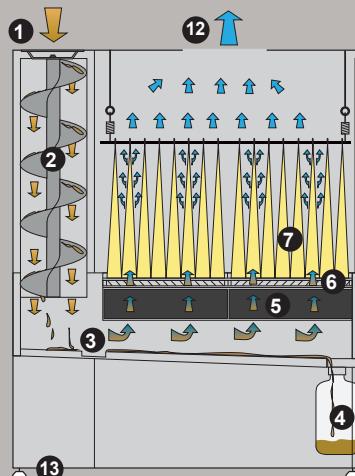


1. Polluted air inlet
2. Centrifugal helicoidal separator
3. Oil drain hopper
4. Oil collecting tank
5. Drop separator
6. Wire mesh metal prefilter
7. Pocket filter
8. Rigid Pocket filter
9. Hepa filter
10. Fan
11. CE rules thermal switch
12. Clean air outlet
13. Level setting feet

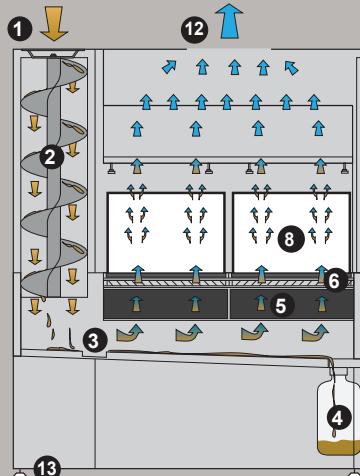
	OIL STOP	OIL STOP R	OIL STOP RH	OIL STOP RHT	OIL STOP/M	OIL STOP/MR	OIL STOP/MRH
5 Drop separator	✓ OPTIONAL !	✓ OPTIONAL !	✓ OPTIONAL !	✓	✓	✓	✓
6 Prefilter	✓	✓	✓	✓	✓	✓	✓
7 Pocket filter	✓	-	-	-	✓	-	-
8 Rigid Pocket filter	-	✓	✓	✓	-	✓	✓
9 Hepa filter	-	-	✓	✓	-	-	✓

# Oil Stop/M

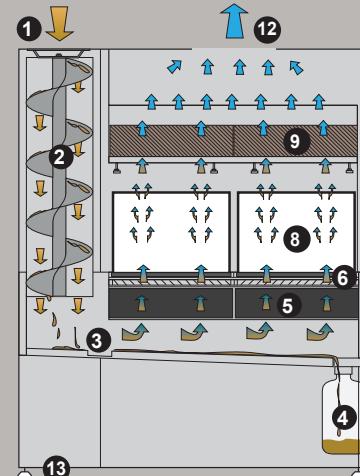
## OIL STOP/M



## OIL STOP/MR



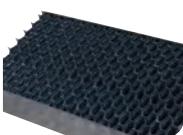
## OIL STOP/MRH



• Oil mist inlet



• Clean air outlet

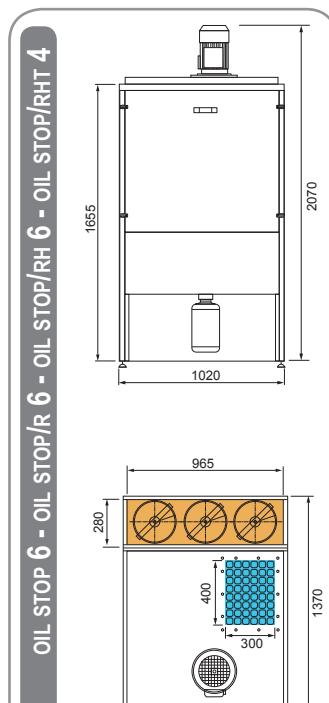
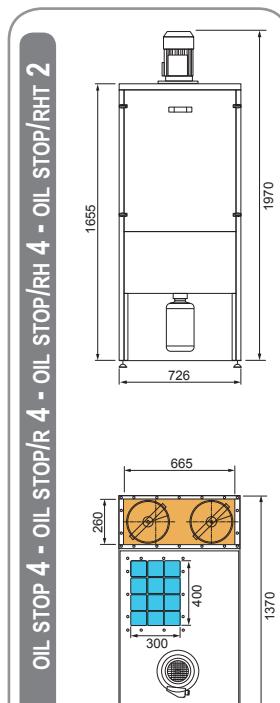
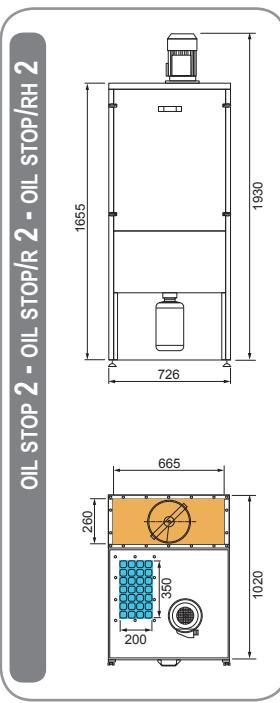
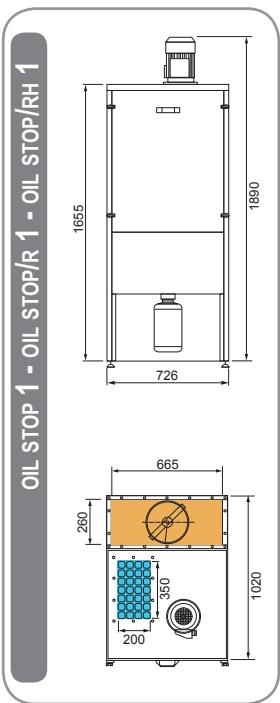
DROP SEPARATOR	PREFILTER	POCKET FILTER	RIGID POCKET FILTER	HEPA FILTER
<b>5</b> 	<b>6</b> 	<b>7</b> 	<b>8 R</b> 	<b>9 H</b> 
<b>Tipo di tessuto filtrante</b> Type de tissu filtrant Type of filtering fabric Typ Filtergewebe Tipo di tessuto filtrante	-	Calza in alluminio Paille métallique Aluminium wire mesh Metallstrickfilter in Aluminiumrahmen Malla de aluminio	Microfibra di vetro Microfibre de verre Glass microfibre Mikroglasfaser Micro fibra de vidrio	Microfibra di vetro Microfibre de verre Glass microfibre Mikroglasfaser Micro fibra de vidrio
<b>Classificazione</b> Classification Classification Klassifizierung Classificazione	-	(EN 779) G2	(EN 779) F9	(EN 779) F9
<b>Efficienza di filtrazione [%]</b> Efficacité de filtration [%] Filtering efficiency [%] Filterleistung [%] Efficienza di filtrazione [%]	-	65%	95%	99,95%



## > OIL STOP - OIL STOP/R - OIL STOP/RH - OIL STOP/RHT



FOR INLET AND OUTLET CONNECTION PLS CONSULT OUR TECHNICAL DEPARTMENT.



### OIL STOP

- With pocket filter

### OIL STOP/R

- With rigid pocket filter

### OIL STOP/RH

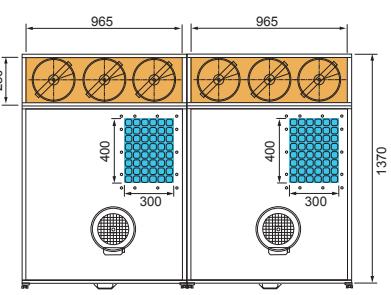
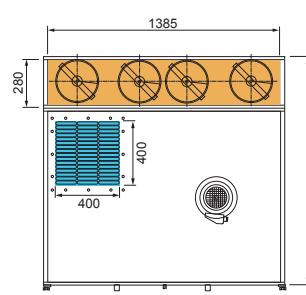
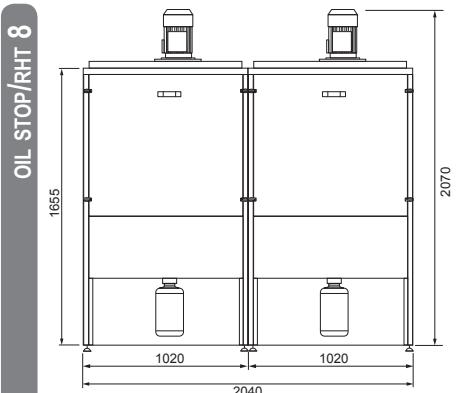
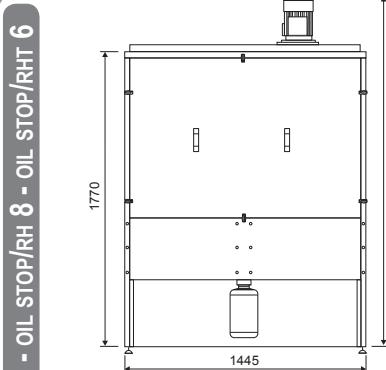
- With rigid pocket filter and HEPA filter

### OIL STOP/RHT

- With rigid pocket filter and HEPA filter  
FOR ENTIRE OIL APPLICATION

### OIL STOP/S - RS - RHS - RHTS

- without fan



INLET

OUTLET



Suction arm model Evolution No Smoke 3.0 -ø150 mm

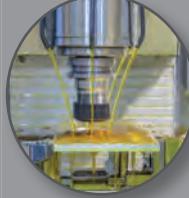
		OIL STOP - OIL STOP/R					OIL STOP/RH					OIL STOP/RHT				OIL STOP 2	
		1	2	4	6	8	1	2	4	6	8	2	4	6	8	NS/RNS	RHNS/RHTNS
<i>Max delivery</i>	m/h CFM	1500 880	3000 1765	4000 2355	6000 3530	7500 4415	1200 705	2000 1180	3500 2060	5500 3240	7000 4120	2000 1180	4000 2355	6000 3530	8000 4710	2000 1180	2000 1180
<i>Nominal air flow</i>	m/h CFM	1000 590	2400 1410	3600 2120	5400 3180	7000 4120	800 470	1800 1060	3000 1765	5000 2940	6650 3915	1800 1060	3750 2210	5700 3350	7500 4415	1600 940	1400 825
<i>Available static pressure</i>	mmH <sub>2</sub> O	27	47	70	73	90	27	50	70	70	90	55	85	90	100	-	-
<i>Power</i>	kW HP	0,75 1	1,5 2	3	4	5,5 7,5	0,75 1	1,5 2	3 4	4 5,5	5,5 7,5	15 2	3 4	4 5,5	2x3 kW 2x4 HP	1,5 kW 2 HP	1,5 kW 2 HP
<i>Fan</i>	400 V 50 Hz					400 V 50 Hz					400 V 50 Hz					400 V 50 Hz	400 V 50 Hz
<i>R.P.M</i>	2950					2950					2950					2950	2950
<i>Gross Weight</i>	160 Kg 352 lbs	180 Kg 396 lbs	230 Kg 507 lbs	350 Kg 771 lbs	400 Kg 881 lbs	165 Kg 363 lbs	195 Kg 429 lbs	250 Kg 551 lbs	370 Kg 815 lbs	430 Kg 948 lbs	240 Kg 529 lbs	360 Kg 794 lbs	450 Kg 992 lbs	750 Kg 1653 lbs	240 kg 529 lbs		
<i>Filtering efficiency</i>	95 %	95 %	95 %	95 %	95 %	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	95 %		
<i>Collection tank capacity</i>	5 l.	5 l.	5 l.	5 l.	5 l.	5 l.	5 l.	5 l.	5 l.	5 l.	5 l.	5 l.	5 l.	2x 5 l.	5 l.	5 l.	
<i>Sound level db(A)</i>	74	78	86	83	84	74	76	85	82	83	75	85	82	83	76	76	
<i>Sound level with plenum db(A)</i>	71	74	80	77	78	71	73	79	76	77	72	79	76	77	72	72	

Dimensions (mm)



**OIL STOP - OIL STOP/R - OIL STOP/RH  
OIL STOP/M - OIL STOP/MR - OIL STOP/MRH**

- For mist application



**OIL STOP RHT**

- Best for entire oil application



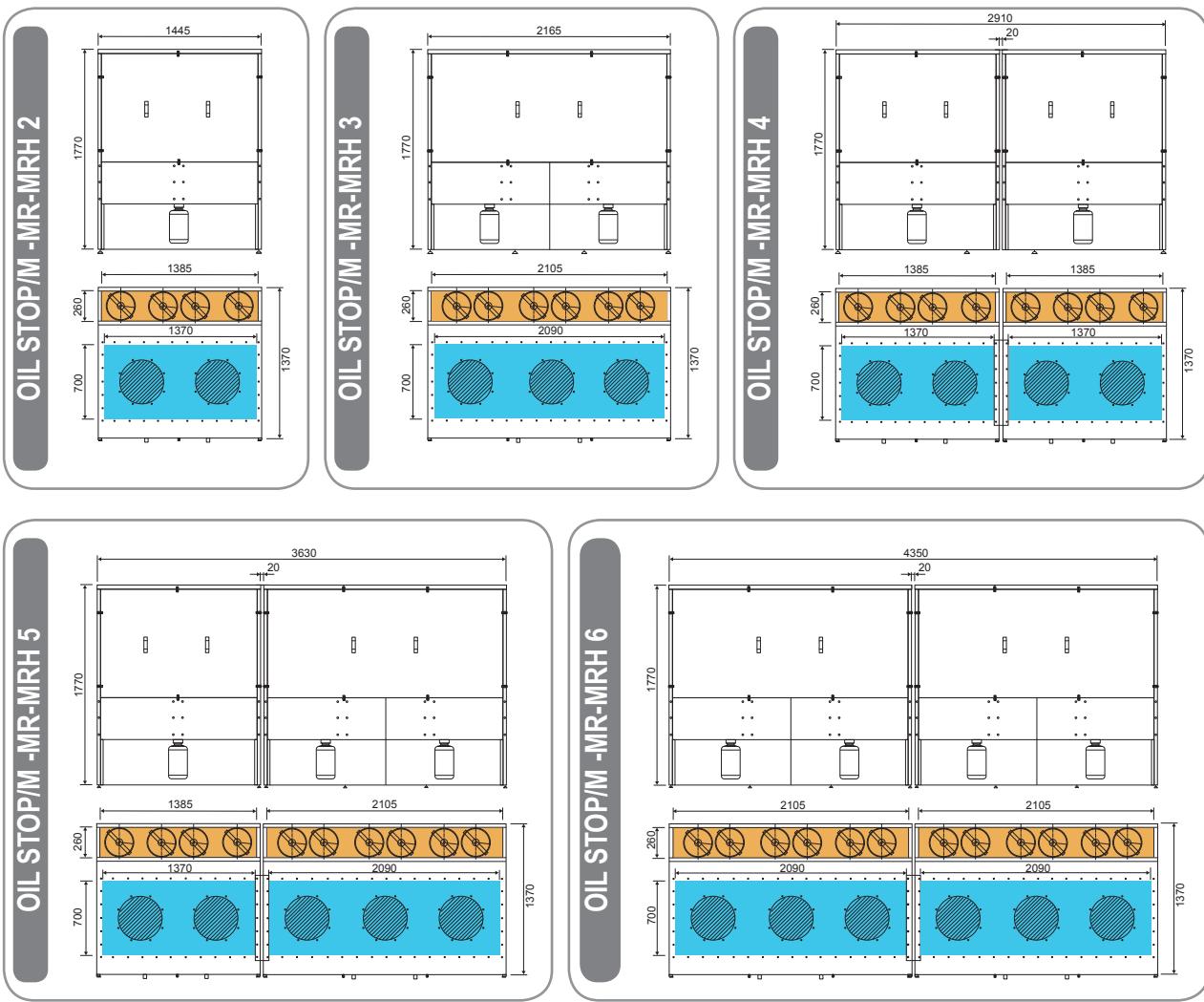
- For odour emissions control we suggest the use of the charcoal box

# Oil Stop/M

## > OIL STOP/M - OIL STOP/MR - OIL STOP/MRH



FOR INLET AND OUTLET CONNECTION PLS CONSULT OUR TECHNICAL DEPARTMENT.



Dimensions (mm)

### OIL STOP/M

- Modular without fan with pocket filter

### OIL STOP/MR

- Modular without fan with rigid pocket filter

### OIL STOP/MRH

- Modular without fan with rigid pocket filter and HEPA filter

### OIL STOP/M - OIL STOP/MR - OIL STOP/MRH

	2	3	4	5	6			
Max delivery	8000 m <sup>3</sup> /h 4720 CFM	12000 m <sup>3</sup> /h 7080 CFM	16000 m <sup>3</sup> /h 9440 CFM	20000 m <sup>3</sup> /h 11800 CFM	24000 m <sup>3</sup> /h 14160 CFM			
Pressure loss	M-MR 40 mmH <sub>2</sub> O	MRH 65mmH <sub>2</sub> O	M-MR 40mmH <sub>2</sub> O	MRH 65mmH <sub>2</sub> O	M-MR 40mmH <sub>2</sub> O	MRH 65mmH <sub>2</sub> O	M-MR 40mmH <sub>2</sub> O	MRH 65mmH <sub>2</sub> O
Filtering efficiency	M-MR 95 %	MRH 99.95 %	M-MR 95 %	MRH 99.95 %	M-MR 95 %	MRH 99.95 %	M-MR 95 %	MRH 99.95 %
Gross Weight	400 Kg 880 lbs	600 Kg 1320 lbs	800 Kg 1760 lbs	1000 Kg 2200 lbs	1200 Kg 2640 lbs			
Collection tank capacity	5 l.	2 x 5 l.	2 x 5 l.	3 x 5 l.	4 x 5 l.			

# OPTIONALS



	OIL STOP	OIL STOP R	OIL STOP RH	OIL STOP RHT	OIL STOP/M	OIL STOP/MR	OIL STOP/MRH
<b>1</b> Air diffuser	✓	✓	✓	✓	-	-	-
<b>2</b> Silencers	✓	✓	✓	✓	-	-	-
<b>3</b> Inlet/outlet connection	✓	✓	✓	✓	✓	✓	✓
<b>4</b> Soundproofed fan box with net	✓	✓	✓	✓	-	-	-
<b>5</b> Soundproofed fan box with charcoal	✓	✓	✓	✓	-	-	-
<b>6</b> Wheels kit	✓	✓	✓	-	-	-	-
<b>7</b> Drop separator	✓	✓	✓	STANDARD	STANDARD	STANDARD	STANDARD
<b>8</b> Pressure switches for filter clogging alarm on Control Board	✓	✓	✓	✓	✓	✓	✓
<b>9</b> Filters clogging values reading differential manometer	✓	✓	✓	✓	✓	✓	✓
<b>10</b> Siphon for continuous discharge	✓	✓	✓	✓	✓	✓	✓
<b>11</b> Total painting	✓	✓	✓	✓	✓	✓	✓
<b>12</b> Door with hinges	OIL STOP 1-2-4-6	OIL STOP 1-2-4-6	OIL STOP 1-2-4-6	OIL STOP 1-2-4-6	-	-	-

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.



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