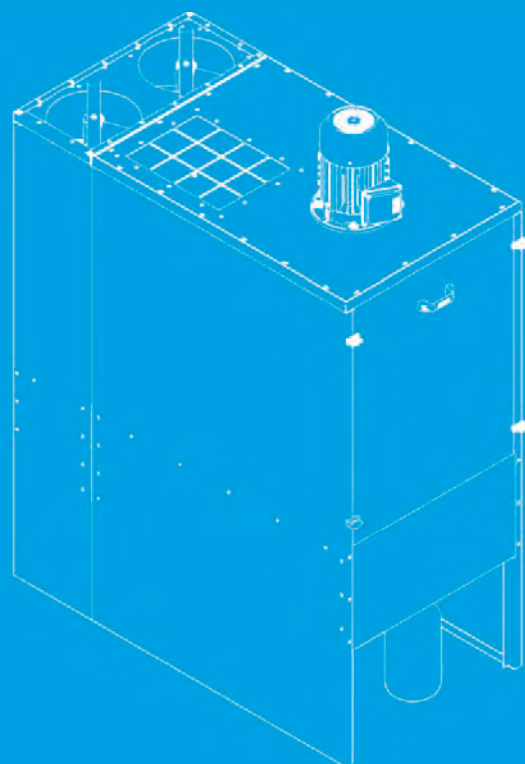


2019



Filter Unit For Oil Mist

Oil STOP
Oil STOP/M



www.coral.eu



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

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*



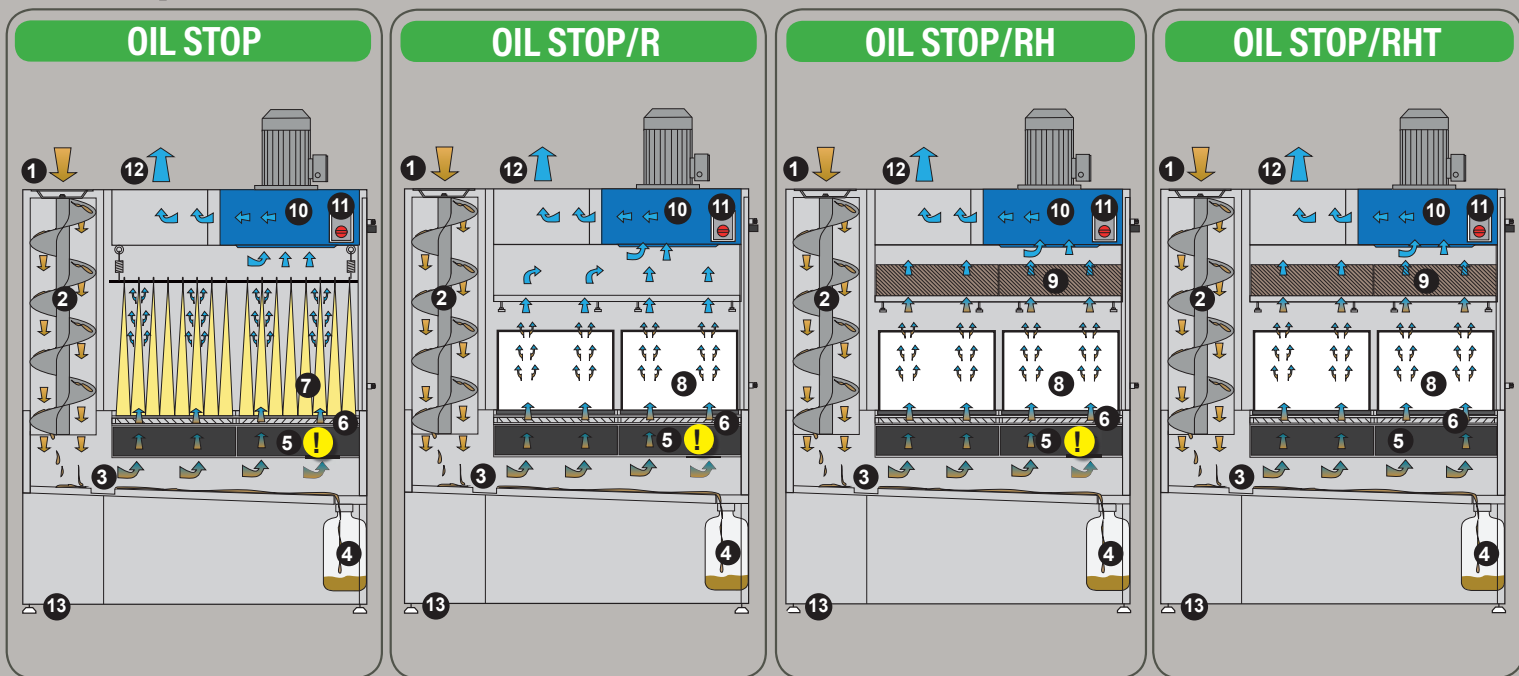
▲ **OIL STOP 6**
• with control panel (OPTIONAL) and
soundproofed (OPTIONAL)



Oil Stop -Oil Stop/M

> OPERATING PRINCIPLE

Oil Stop

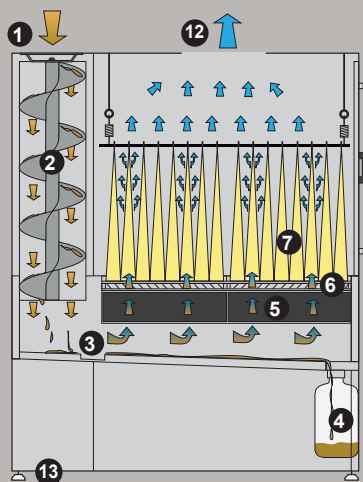


1. Polluted air inlet
2. Centrifugal helicoidal separator
3. Oil drain hopper
4. Oil collecting tank
5. Drop separator
6. Wire mesh metal prefilter
7. Pocket filter
8. Rigid Pocket filter
9. Hepa filter
10. Fan
11. CE rules thermal switch
12. Clean air outlet
13. Level setting feet

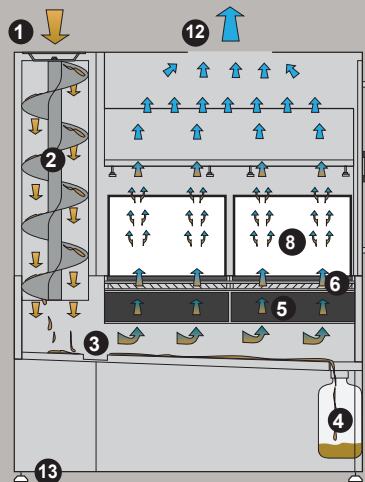
	OIL STOP	OIL STOP R	OIL STOP RH	OIL STOP RHT	OIL STOP/M	OIL STOP/MR	OIL STOP/MRH
5 Drop separator	✓ OPTIONAL !	✓ OPTIONAL !	✓ OPTIONAL !	✓	✓	✓	✓
6 Prefilter	✓	✓	✓	✓	✓	✓	✓
7 Pocket filter	✓	-	-	-	✓	-	-
8 Rigid Pocket filter	-	✓	✓	✓	-	✓	✓
9 Hepa filter	-	-	✓	✓	-	-	✓

Oil Stop/M

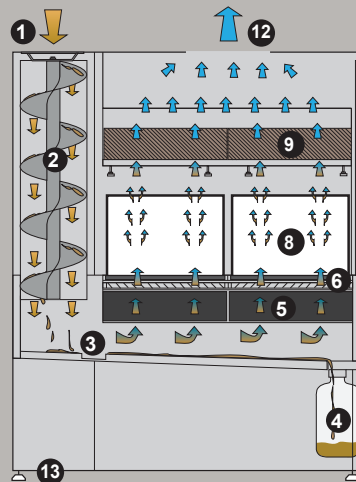
OIL STOP/M



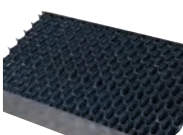
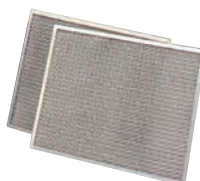


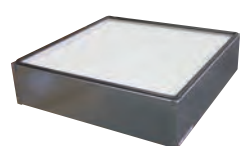
OIL STOP/MR



OIL STOP/MRH



- Oil mist inlet
- Clean air outlet

DROP SEPARATOR	PREFILTER	POCKET FILTER	RIGID POCKET FILTER	HEPA FILTER
5	6	7	8 R	9 H
				
Tipo di tessuto filtrante 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
Classificazione Classification Classification Klassifizierung Classificazione	-	(EN 779) G2	(EN 779) F9	(EN 1822) H13
Efficienza di filtrazione [%] Efficacité de filtration [%] Filtering efficiency [%] Filterleistung [%] Efficienza di filtrazione [%]	-	65%	95%	99,95%



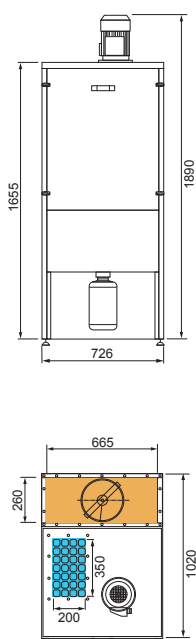
Oil Stop

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

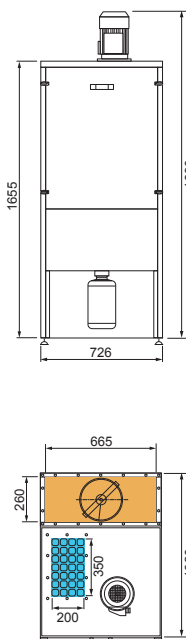


FOR INLET AND OUTLET CONNECTION PLS CONSULT OUR TECHNICAL DEPARTMENT.

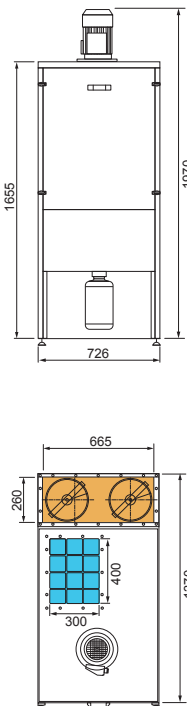
OIL STOP 1 - OIL STOP/R 1 - OIL STOP/RH 1



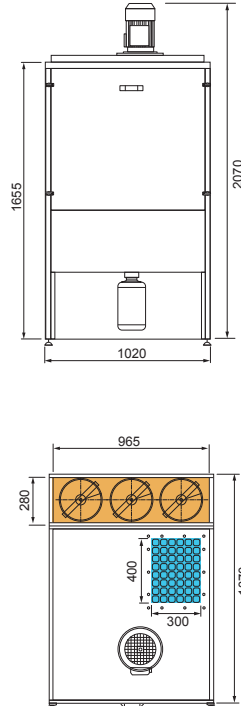
OIL STOP 2 - OIL STOP/R 2 - OIL STOP/RH 2



OIL STOP 4 - OIL STOP/R 4 - OIL STOP/RH 4 - OIL STOP/RHT 2



OIL STOP 6 - OIL STOP/R 6 - OIL STOP/RH 6 - OIL STOP/RHT 4



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

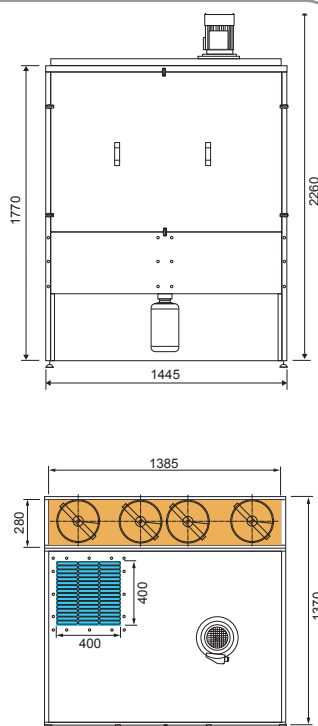
OIL STOP/S - RS - RHS - RHTS

- without fan

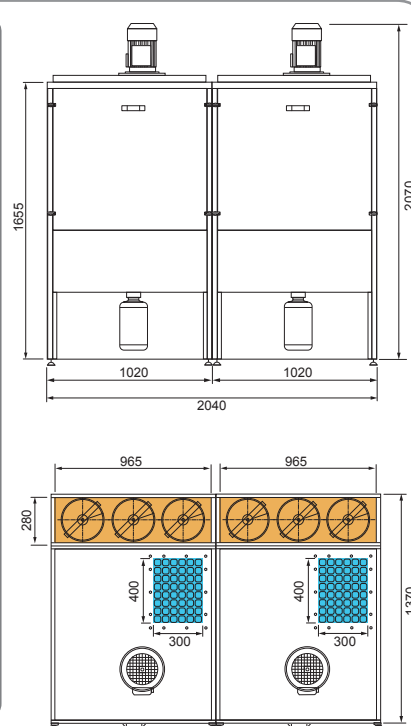
OIL STOP2/NS-/RNS-/RHNS-/RHTNS

- Cart mounted version and suction arm model Evolution No Smoke 3.0 -ø150 mm

OIL STOP 8 - OIL STOP/R 8 - OIL STOP/RH 8 - OIL STOP/RHT 6



OIL STOP/RHT 8



Suction arm model Evolution No Smoke 3.0 -ø150 mm

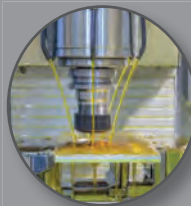
		OIL STOP - OIL STOP/R					OIL STOP/RH					OIL STOP/RHT				OIL STOP 2	
		1	2	4	6	8	1	2	4	6	8	2	4	6	8	NS/RNS	RHNS/RHTNS
Max delivery	m ³ /h CFM	1500 880	3000 1765	4000 2355	6000 3530	7500 4415	1200 705	2000 1180	3500 2060	5500 3240	7000 4120	2000 1180	4000 2355	6000 3530	8000 4710	2000 1180	2000 1180
Nominal air flow	m ³ /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
Available static pressure	mmH ₂ O	27	47	70	73	90	27	50	70	70	90	55	85	90	100	-	-
Power	kW HP	0,75 1	1,5 2	3 4	4 5,5	5,5 7,5	0,75 1	1,5 2	3 4	4 5,5	5,5 7,5	1,5 2	3 4	4 5,5	2 x 3 kW 2 x 4 HP	1,5 kW 2 HP	1,5 kW 2 HP
Fan		400 V 50 Hz					400 V 50 Hz					400 V 50 Hz				400 V 50 Hz	400 V 50 Hz
R.P.M		2950					2950					2950				2950	2950
Gross Weight		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	
Filtering efficiency		95 %	95 %	95 %	95 %	95 %	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	99,95%	95 %	
Collection tank capacity		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.	2 x 5 l.	5 l.	5 l.
Sound level db(A)		74	78	86	83	84	74	76	85	82	83	75	85	82	83	76	76
Sound level with plenum db(A)		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



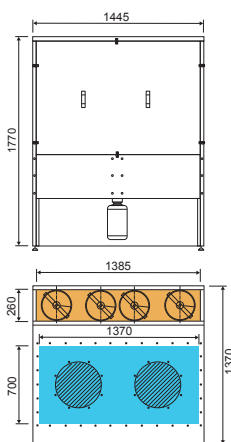
Oil Stop/M

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

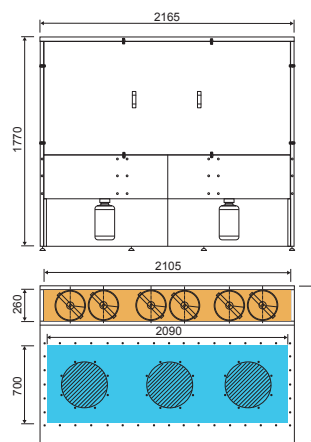


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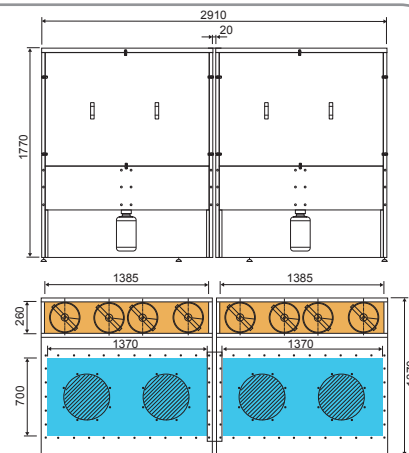
OIL STOP/M -MR-MRH 2



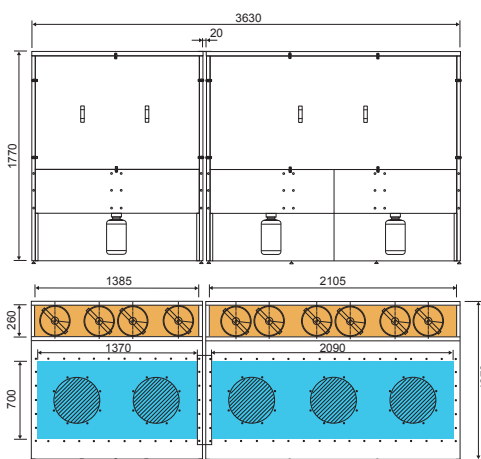
OIL STOP/M -MR-MRH 3



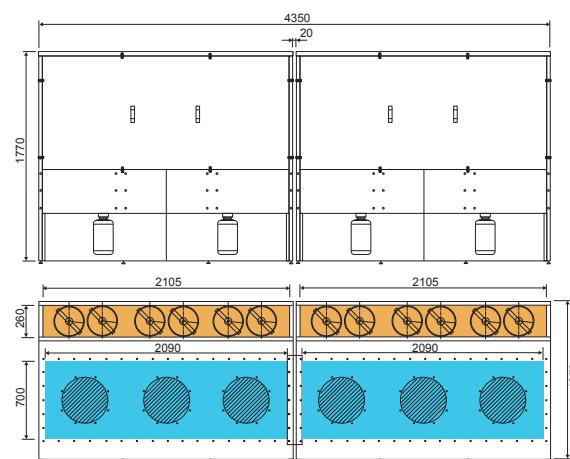
OIL STOP/M -MR-MRH 4



OIL STOP/M -MR-MRH 5



OIL STOP/M -MR-MRH 6



Dimensions (mm)

 INLET
 OUTLET

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 ³ /h 4720 CFM		12000 m ³ /h 7080 CFM		16000 m ³ /h 9440 CFM		20000 m ³ /h 11800 CFM		24000 m ³ /h 14160 CFM	
Pressure loss	M-MR 40 mmH ₂ O	MRH 65mmH ₂ O	M-MR 40mmH ₂ O	MRH 65mmH ₂ O	M-MR 40mmH ₂ O	MRH 65mmH ₂ O	M-MR 40mmH ₂ O	MRH 65mmH ₂ O	M-MR 40mmH ₂ O	MRH 65mmH ₂ 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 %	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
1 Air diffuser		✓	✓	✓	✓	-	-	-
2 Silencers		✓	✓	✓	✓	-	-	-
3 Inlet/outlet connection		✓	✓	✓	✓	✓	✓	✓
4 Soundproofed fan box with net		✓	✓	✓	✓	-	-	-
5 Soundproofed fan box with charcoal		✓	✓	✓	✓	-	-	-
6 Wheels kit		✓	✓	✓	-	-	-	-
7 Drop separator		✓	✓	✓	STANDARD	STANDARD	STANDARD	STANDARD
8 Pressure switches for filter clogging alarm on Control Board		✓	✓	✓	✓	✓	✓	✓
9 Filters clogging values reading differential manometer		✓	✓	✓	✓	✓	✓	✓
10 Siphon for continuous discharge		✓	✓	✓	✓	✓	✓	✓
11 Total painting		✓	✓	✓	✓	✓	✓	✓
12 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	-	-	-

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