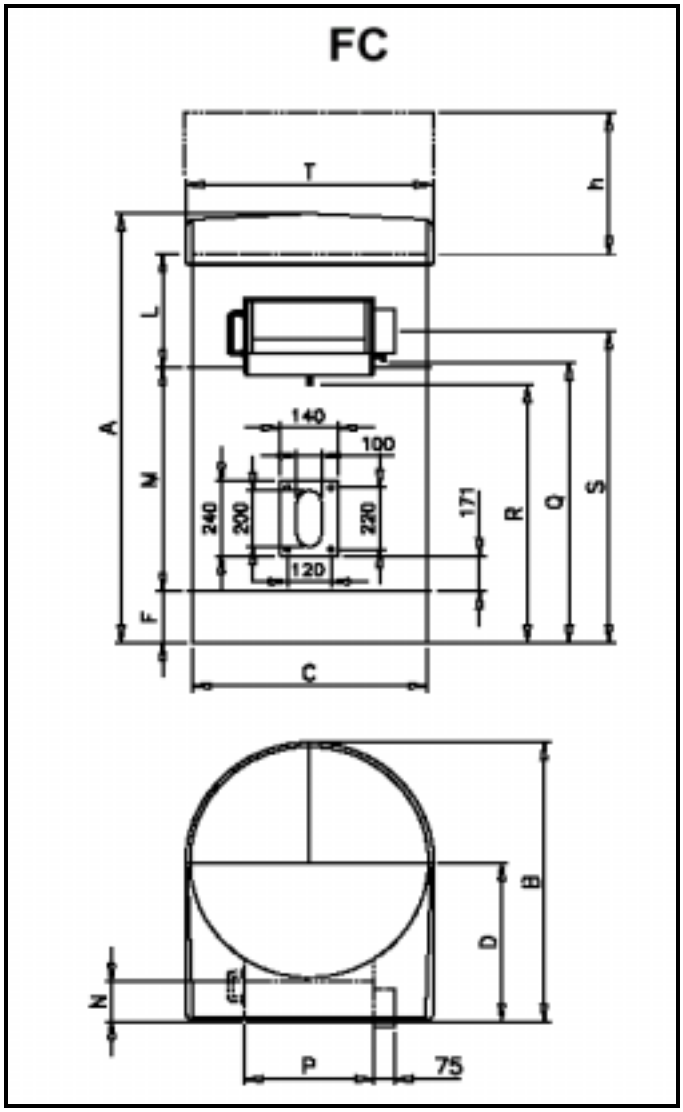
Maschinen Fabrik
(India) Private Limited
Website **www.mfipl.com**

Technical Data Dust Collectors

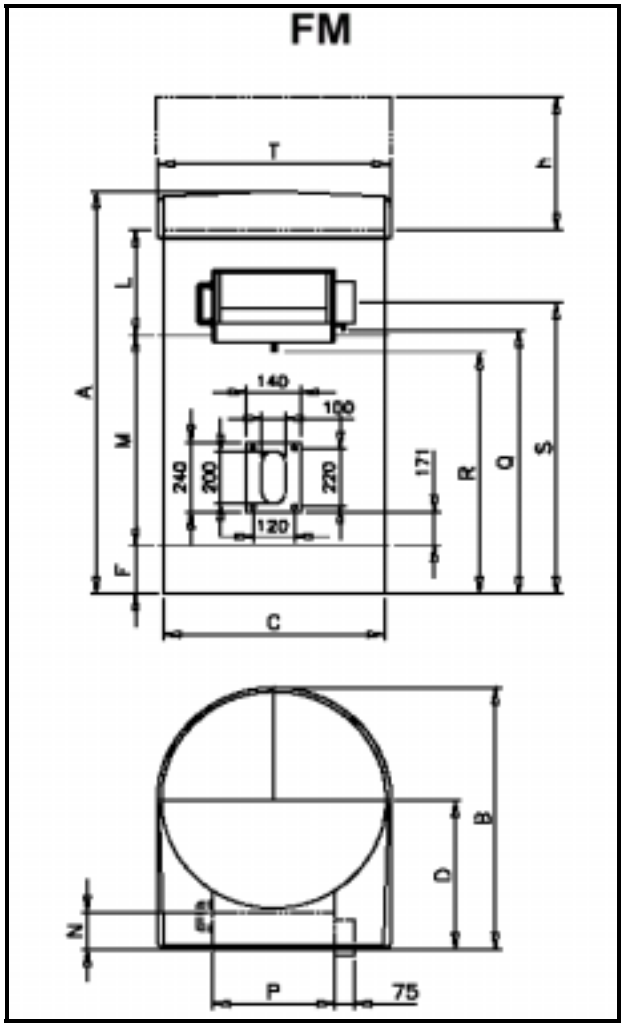


TYPE	A	B	C	D	F	L	M	N	P	Q	R	S	T	H*	Kg
FC1J03	1135	670	408	375	140	356	520	170	270	737	617	880	452	220	33
FC1J04	1385	670	408	375	140	356	770	170	270	987	867	1130	452	470	37
FC1J05	1535	670	408	375	140	356	920	170	270	1137	1017	1280	452	620	39
FC2J07	1185	865	603	483	190	356	520	180	270	787	667	870	647	220	59
FC2J11	1435	865	603	483	190	356	770	180	270	1037	917	1120	647	470	67
FC2J13	1585	865	603	483	190	356	920	180	270	1187	1067	1270	647	620	72
FC3J12	1235	955	783	543	240	356	520	150	430	845	735	870	827	220	84
FC3J20	1485	955	783	543	240	356	770	150	430	1095	985	1120	827	470	102
FC3J24	1635	955	783	543	240	356	920	150	430	1245	1135	1270	827	620	108
FC4J25	1235	1210	1038	645	240	356	520	125	590	8595	762	870	1082	220	136
FC4J39	1485	1210	1038	645	240	356	770	125	590	11095	1012	1120	1082	470	160
FC4J47	1635	1210	1038	645	240	356	920	125	590	12595	1162	1270	1082	620	172

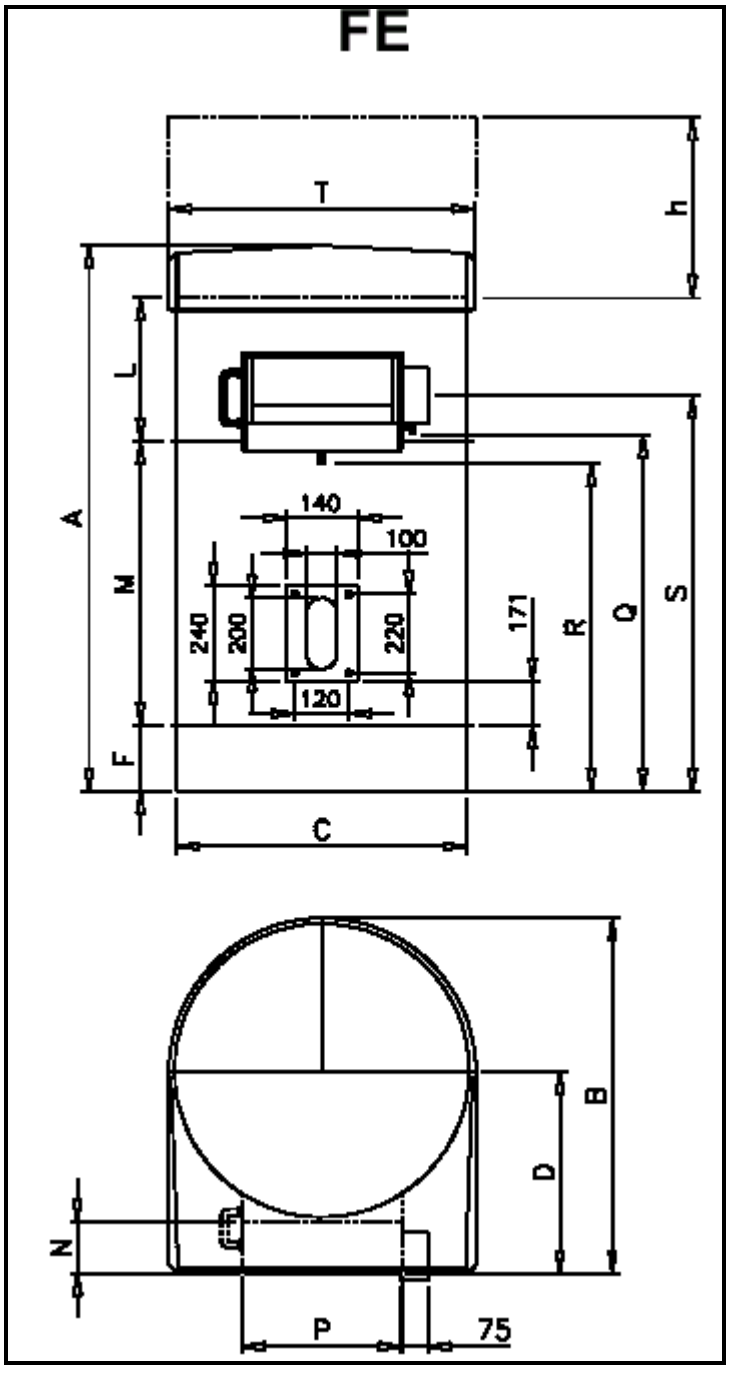
* Space required for maintenance

Dimensions in mm

Technical Data Dust Collectors

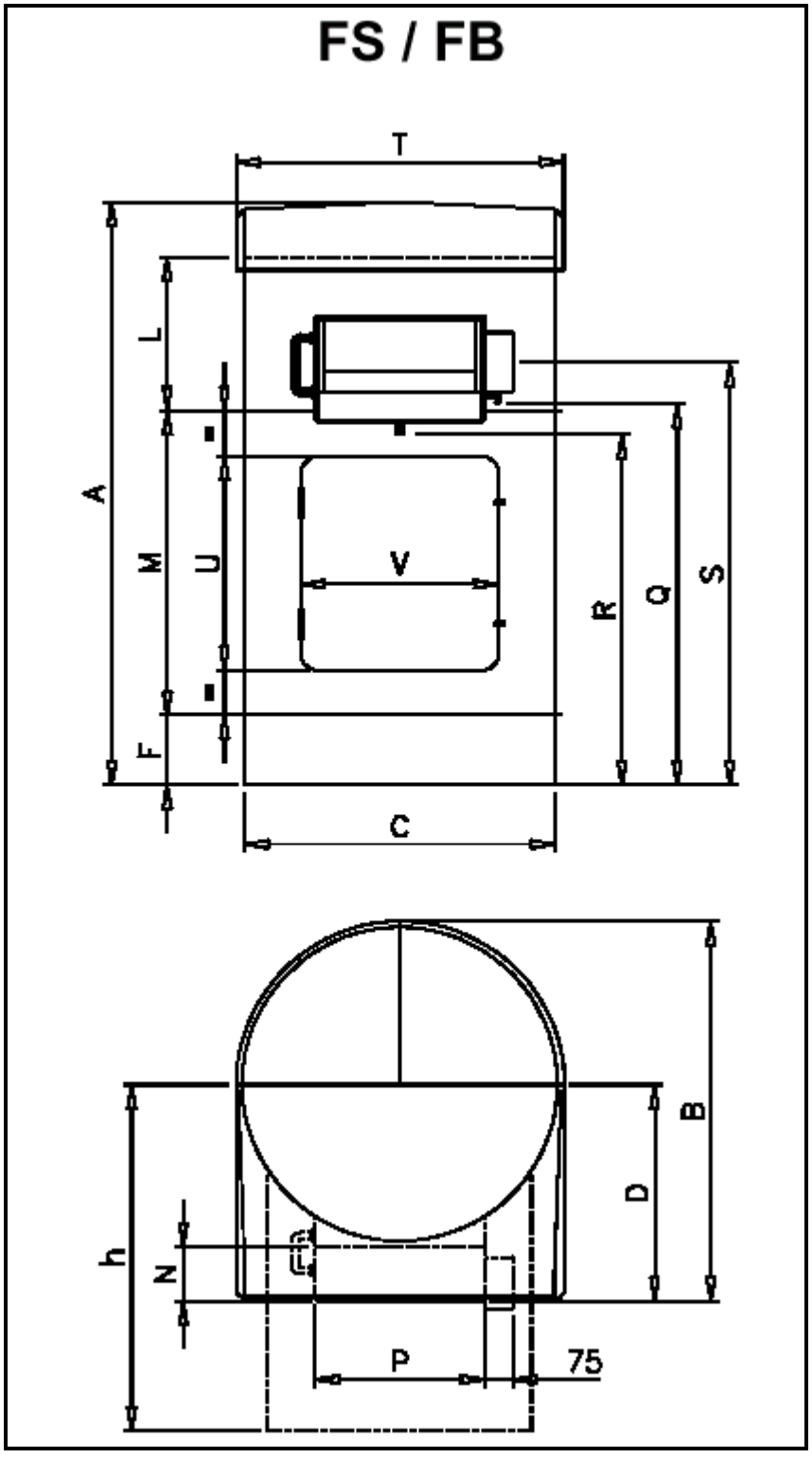


TYPE	A	B	C	D	F	L	M	N	P	Q	R	S	T	H*	Kg
FM1J01	1535	670	408	375	140	356	920	170	270	1137	1017	1280	452	620	33
FM1J02	1975	670	408	375	140	356	1360	170	270	1577	1457	1720	452	1060	37
FM1J03	2455	670	408	375	140	356	1840	170	270	2057	1937	2200	452	1540	39
FM2J03	1585	865	603	483	140	356	920	180	270	1187	1067	1270	647	620	59
FM2J05	2025	865	603	483	190	356	1360	180	270	1627	1507	1720	647	1060	67
FM2J06	2505	865	603	483	190	356	1840	180	270	2107	1987	2190	647	1540	72
FM3J06	1635	955	783	543	190	356	920	150	430	1245	1135	1270	827	620	84
FM3J08	2075	955	783	543	240	356	1360	150	430	1685	1575	1710	827	1060	102
FM3J11	2555	955	783	543	240	356	1840	150	430	2165	2055	2190	827	1540	108
FM4J11	1635	1210	1038	645	240	356	920	125	590	1259,5	1162	1270	1082	620	136
FM4J16	2075	1210	1038	645	240	356	1360	125	590	1699,5	1602	1710	1082	1060	160
FM4J21	2555	1210	1038	645	240	356	1840	125	590	2179,5	2082	2190	1082	1540	172


FE
T
h
L
A
M
F
C
140
100
240
200
220
120
171
R
Q
S
B
D
N
P
75

Technical Data Dust Collectors

TYPE	A	B	C	D	F	L	M	N	P	Q	R	S	T	H*	Kg
FE2J03	1185	865	603	483	190	356	520	180	270	787	667	870	647	220	63
FE2J05	1585	865	603	483	190	356	920	180	270	1187	1067	1270	647	620	87
FE2J07	2025	865	603	483	190	356	1360	180	270	1627	1507	1710	647	1060	111
FE2J09	2505	865	603	483	190	356	1840	180	270	2107	1987	2190	647	1540	128
FE3J04	1235	955	783	543	240	356	520	150	430	845	735	870	827	220	87
FE3J07	1635	955	783	543	240	356	920	150	430	1245	1135	1270	827	620	122
FE3J10	2075	955	783	543	240	356	1360	150	430	1685	1575	1710	827	1060	157
FE3J14	2555	955	783	543	240	356	1840	150	430	2165	2055	2190	827	1540	181
FE4J08	1235	1210	1038	645	240	356	520	125	590	859,5	762	870	1082	220	80
FE4J13	1635	1210	1038	645	240	356	920	125	590	1259,5	1162	1270	1082	620	180
FE4J20	2075	1210	1038	645	240	356	1360	125	590	1699,5	1602	1710	1082	1060	240
FE4J26	2555	1210	1038	645	240	356	1840	125	590	2179,5	2082	2190	1082	1540	284


FS / FB
T
L
A
M
U
V
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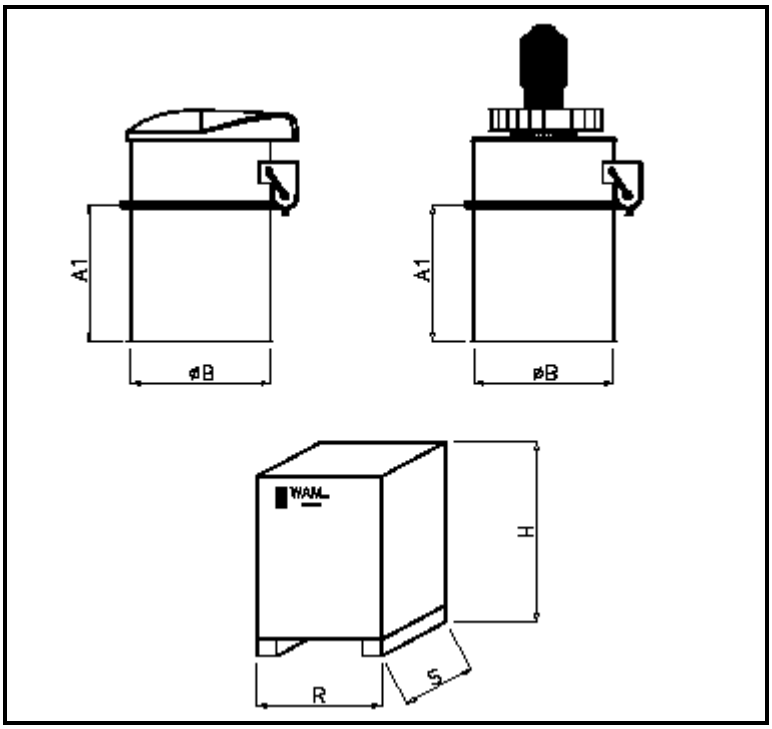
75

Technical Data Dust Collectors

Type		A	B	C	D	F	L	M	N	P	Q	R	S	T	U	V	H	KG	
FS	FB																	FS	FB
FS2J07	-	1185	865	603	483	190	356	520	180	270	787	337	870	647	430	380	220	59	-
FS2J11	-	1435	865	603	483	190	356	770	180	270	1037	917	1120	647	680	380	470	67	
FS2J13	FB2J03	1585	865	603	483	190	356	920	180	270	1187	1067	1270	647	830	380	620	72	59
-	FB2J05	2025	865	603	483	190	356	1360	180	270	1627	1507	1720	647	830	380	1060	-	67
-	FB2J06	2505	865	603	483	190	356	1840	180	270	2107	1987	2190	647	830	380	1540	-	72
FS3J12	-	1235	955	783	543	240	356	520	150	430	845	735	870	827	430	380	220	84	-
FS3J20	-	1485	955	783	543	240	356	770	150	430	1095	985	1120	827	680	380	470	102	-
FS3J24	FB3J06	1635	955	783	543	240	356	920	150	430	1245	1135	1270	827	830	380	620	108	84
-	FB3J08	2075	955	783	543	240	356	1360	150	430	1685	1575	1710	827	830	380	1060	-	102
-	FB3J11	2555	955	783	543	240	356	1840	150	430	2165	2055	2190	827	830	380	1540	-	108
FS4J25	-	1235	1210	1038	645	240	356	520	125	590	859.5	762	870	1082	430	500	220	136	-
FS4J39	-	1485	1210	1038	645	240	356	770	125	590	1109.5	1012	1120	1082	680	500	470	160	-
FS4J47	FB4J11	1635	1210	1038	645	240	356	920	125	590	1259.5	1162	1270	1082	830	500	620	172	136
	FB4J16	2075	1210	1038	645	240	356	1360	125	590	1699.5	1602	171	182	830	500	1060	-	160
-	FB4J21	2555	1210	1038	645	240	356	1840	125	590	2179.5	2082	2190	1082	830	500	1540	-	172

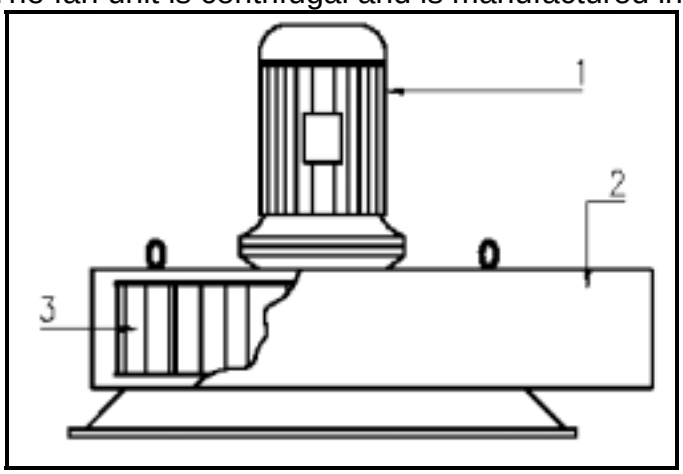


Technical Data Dust Collectors

Filtering Surface (m^2)										
Cartridges FC	Round Bags FM	Elliptical Bags FE	Removable Cartridges FS	Removable Bags FB	ØB	A1	R	S	 H	 H
3	-	-	-	-	400	520	690	490	1200	1600
4	-	-	-	-	400	770	690	490	1600	2100
5	1	-	-	-	500	920	690	490	1600	210
-	2	-	-	-	400	1360	690	490	2100	1600+1200
-	3	-	-	-	400	1840	690	490	2100 +700	2100+1200
7	-	3	7	-	600	520	690	840	1200	1600
11	-	-	11	-	600	770	690	840	1600	2100
13	3	5	13	3	600	920	690	840	1600	2100
-	5	7	-	5	600	1360	690	840	2100	1600+1200
-	6	9	-	6	600	1840	690	840	2100+700	2100+1200
12	-	4	12	-	800	520	1040	890	1200	2100
20	-	-	20	-	800	770	1040	890	1600	2100
24	6	7	24	6	800	920	1040	890	1600	2100
-	8	10	-	8	800	1360	1040	890	2100	1600+1200
-	11	14	-	11	800	1840	1040	890	2100+700	2100+1200
25	-	8	25	-	1000	520	1135	1310	1200	2100
39	-	-	39	-	1000	770	1135	1310	1600	2100
47	11	13	47	11	1000	920	1135	1310	1600	2100
-	16	20	-	16	1000	1360	1135	1310	2100	1600+1200
-	21	26	-	21	1000	1840	1135	1310	2100+700	2100+1200

MK...

The fan unit is centrifugal and is manufactured in different sizes.



1) ELECTRIC MOTOR
2) FAN BODY
3) IMPELLER

FAN CODE KEY

MK 2 1 6

Cover module
Ventilatortyp
Module de couverture
Modulo di copertura

With fan only
Nur mit Ventilator
Seulement avec aspirateur
Solo con aspiratore

1	230/400 V	50 Hz
4	260/440 V	60 Hz
6	230/400 V	60 Hz
M	110/220 V	50 Hz
P	230/460 V	60 Hz

Fan type
Ventilatortyp
Type aspirateur
Tipo aspiratore

1	0.75 kW
2	1.1 kW
3	1.1 kW
4	1.5 kW
5	2.2 kW
6	3 kW
7	4 kW
8	5.5 kW

Ø Filter
Ø Filter
Ø Filtre
Ø Filtro

1	= 0400	
2	= 0600	
3	= 0800	
4	= 1000	
A	= 0400	(*) With st.st. clamps Mit Edelstahl-Spannring Avec collier en acier INOX Con fasce inox
B	= 0500	
C	= 0800	
D	= 1000	

Not to be specified for MKC
Nicht zu spezifieren bei MKC
Ne pas spécifier pour MKC
(*) Non specificare per MKC

1) Electric Motor

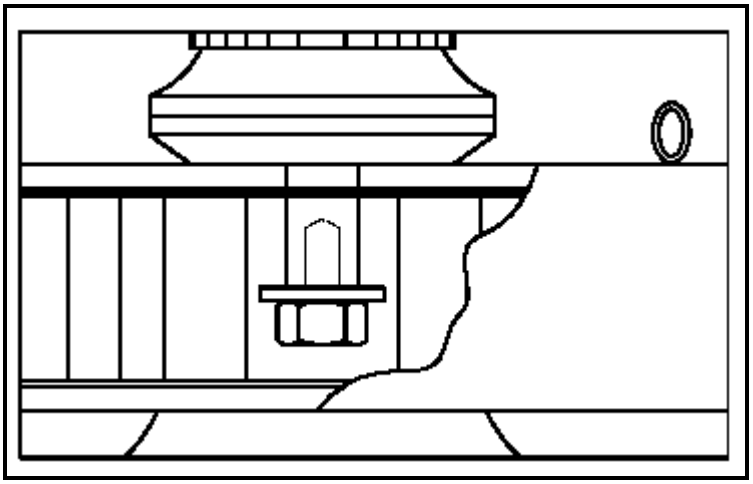
The std. Motor is an asynchronous, three-phase motor with external body in aluminium, form B5, 2 poles, protection IP55, insulation class F, with the following std. Voltages and frequencies.

230-400V, 50Hz
230-400V, 60 Hz
230-460 V, 60Hz

The motor is also protected with an aluminium cover. On request we can supply electric motors. With special voltages and frequencies – tropicalized. The motors are manufactured to IEC-UNELMEC standards. The drilling (to match the impeller) on the shaft is made to DIN 332 standards.

Shaft Holes Agreed With DIN 32.

kw	Size	Drive Shaft Threading
0.75 -1.1	80	M6
1.5 – 2.2	90	M8
3	100	M10
4	112	

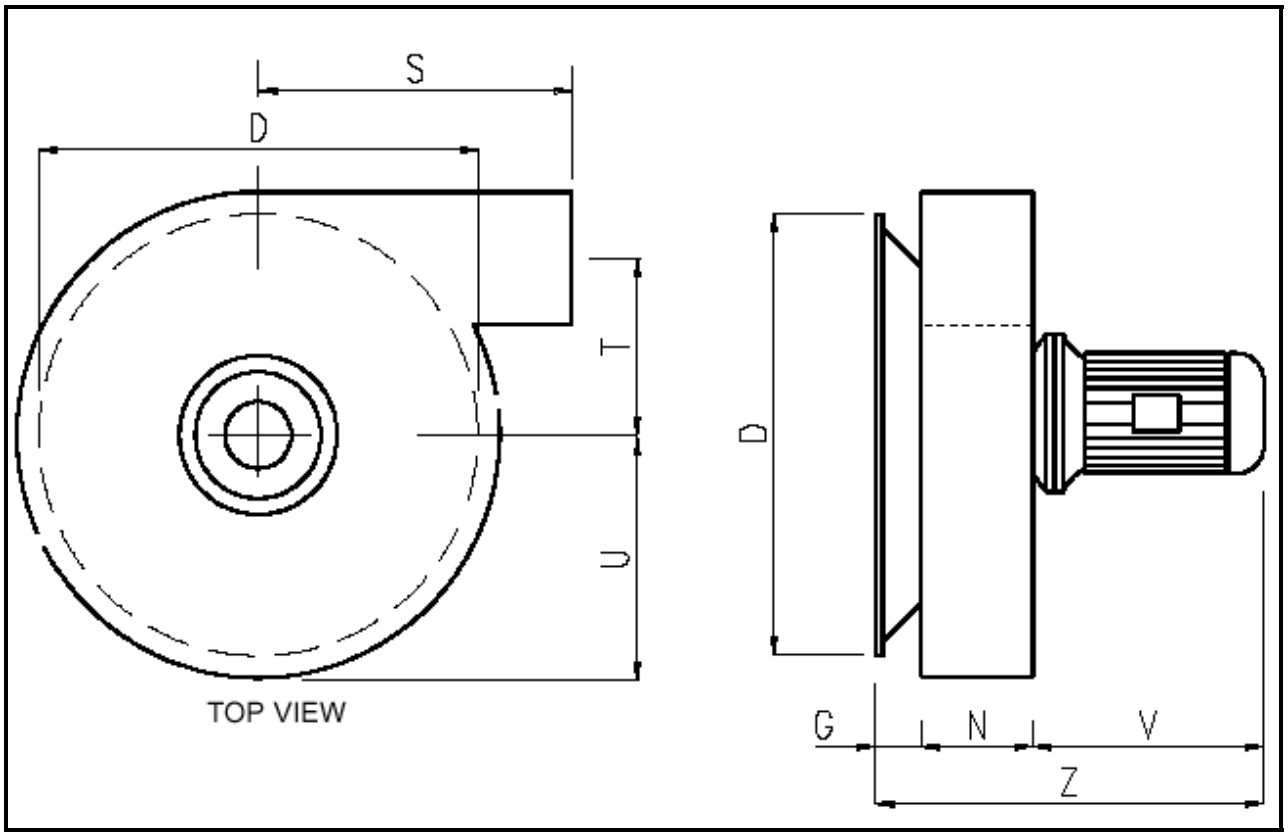


2. Propeller

The propeller is made from mild steel and is waterproof. There is a silicon seal between the propeller and the motor. The outlet has a flange (round or rectangular) to match the air capacity. On the outlet it is possible to apply a slide to restrict the air capacity. The propeller is matched to the filter body with clamps, interposed there is a rubber seal.

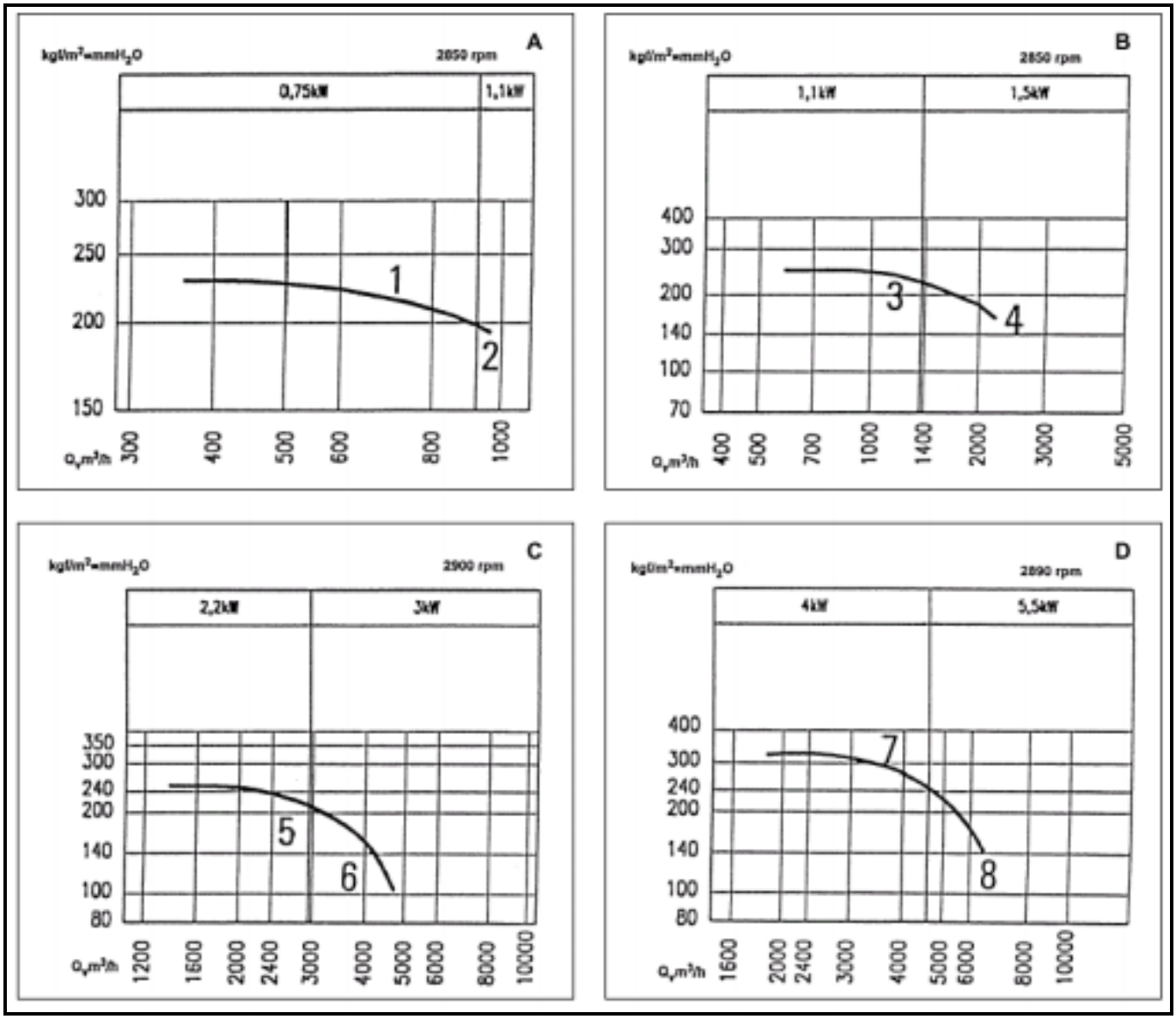
3. Impeller

The impeller is self-cleaning and the blades of steel are welded to steel backplate.



Technical Data Dust Collectors

MOD.		kW	G	N	D	U	T	S	V	~Z	Kg
MK1	1	0.75	65	105	438	211	201	197	240	410	20
	2		85		633					430	
	3		90		813					435	
MK2	1	1.1	65	105	438	211	201	197	240	410	21
	2		85		633					430	
	3		90		813					435	
	4		110		1068					455	
MK3	2	1.1	85	117	633	283	238	280	240	442	48
	3		90		813					447	
	4		110		1068					467	
MK4	3	1.5	90	117	813	283	238	280	260	467	52
	4		110		1068					487	
MK5	3	2.2	90	185	813	315	319	285	280	555	73
	4		110		1068					575	
MK6	3	3	90	185	813	315	319	285	320	595	81
	4		110		1068					615	
MK7	4	4	110	205	1068	355	357	320	320	635	99
MK8	4	5.5	110	205	1068	355	357	320	385	700	112



Fan Performance Curves

Air volume flow and pressure curves at filter inlet refer to clean filter elements. When sizing a fan, according to the type of filter, the particle size and dust concentration, a pressure drop of approximately 70 to 100 mm H_20 must be considered.

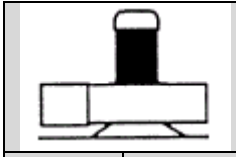
Technical Data Dust Collectors

Type	kw	Air Capacity m³/h		Noise DB (A) max	Electrical Absorption On Use															
		Min	Max		100V		110V		200V		220V		230V		380V		400V		460V	
					Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MK1	0.75	500	800	78	3.8	5.7	3.5	5.2	2.0	2.9	1.8	2.6	1.7	2.5	1	1.5	0.9	1.4	0.8	1.2
MK2	1.1	800	1000	78	5.7	6.4	5.2	5.8	2.9	3.2	2.6	2.9	2.5	2.8	1.5	1.7	1.4	1.6	1.2	1.4
MK3	1.1.	700	1300	75	6.6	9.6	6.0	8.7	3.4	4.8	3.1	4.4	3.0	4.2	1.8	2.5	1.7	2.4	1.5	2.1
MK4	1.5	1300	1780	75	9.6	10.8	8.7	9.8	4.8	5.4	4.4	4.9	4.2	4.7	2.5	2.8	2.4	2.7	2.1	2.3
MK5	2.2	1700	2800	78	12.2	17.4	11.1	15.8	6.0	6.5	5.5	5.9	5.3	7.6	3.2	4.6	3.0	4.4	2.6	3.8
MK6	3	2800	3500	78	19.2	21.2	17.5	19.3	9.7	10.7	8.8	9.7	8.4	9.3	5.1	5.6	4.8	5.3	4.2	4.6
MK7	4	3500	4500	79	29.8	33.9	27.1	30.8	15.0	17.0	13.6	15.5	13.0	14.8	7.9	8.9	7.5	8.4	6.5	7.4
MK8	5.5	4500	5500	82	34.3	37.5	31.2	34.1	17.2	18.8	15.6	17.1	14.9	16.3	9.0	9.9	8.6	9.4	7.5	8.2

Type	kw	Electrical Absorption On the Start (A)															
		100V		110V		200V		220V		230V		380V		400V		460V	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MK1	0.75	19.2	28.6	17.5	26.0	10.0	14.3	9.0	13.0	8.5	12.5	5.0	7.5	4.5	7.0	4.0	6.0
MK2	1.1	28.6	32.0	26.0	29.0	14.3	16.0	13.0	14.5	12.5	14.0	7.5	8.5	7.0	8.0	6.0	7.0
MK3	1.1	34.1	48.3	31.0	43.9	17.0	24.2	15.5	22.0	15.0	21.0	9.0	12.5	87.5	12.0	7.5	10.5
MK4	1.5	47.9	53.9	43.5	49.0	24.2	27.0	22.0	24.5	21.0	23.5	12.5	14.0	12.0	13.5	10.5	11.5
MK5	2.2	67.6	95.6	61.5	86.9	33.2	47.7	30.2	43.4	29.1	41.8	17.6	25.3	16.5	24.2	14.3	20.9
MK6	3	105.6	116.6	96.0	106.0	53.3	58.7	48.4	53.4	46.2	51.1	28.0	30.8	26.4	29.1	23.1	25.3
MK7	4	164.0	186.0	149.0	169.0	78.7	93.5	71.6	85.0	71.5	81.4	43.4	48.9	41.2	46.2	35.7	40.7
MK8	5.5	188.8	206.2	171.6	187.5	94.4	103.4	85.8	94.0	82.9	89.6	49.5	54.4	17.3	51.7	41.3	45.1

All the data above mentioned are related to std wam tests: Filter on Hopper “DH” and air connection Ø 100mm, L=3800mm at the inlet and I = 2000mm at the outler.

Coupling possible between filter and fan

		Filter			
Type		**Ø400**	**Ø600**	**Ø800**	**Ø1000**
MK1	KW 0.75	•	•	•	•
MK2	KW 1.1		•	•	•
MK3	KW1.1		•	•	•
MK4	KW1.5			•	•
MK5	KW2.2			•	•
MK6	KW3				•
Mk7	KW 4				•
Mk8	KW5.5				•

Couplings recommended between filter and fan

Technical Data Dust Collectors

Filter Type	Fan Types							
	A		B		C		D	
	0.75kW	1.1kW	1.1kW	1.5kW	2.2kW	3kW	4kW	5.5kW
FC1J03	MK11							
FC1J04	MK11							
FC1J05	MK11							
FC/FS2J07	MK12							
FC/FS2J11	MK12		MK32					
FC/FS2J13	MK12		MK32					
FC/FS3J12	MK13		MK33					
FC/FS3J20			MK33		MK53			
FC/FS3J24				MK43	MK53			
FC/FS4J25				Mk44	Mk54			
FC/FS4J39					MK54	MK64		
FC/FS4J47					Mk54		Mk74	
FE2J05	MK12							
FE2J07	MK12	MK22						
FE2J09	MK12		Mk32					
FE3J07	MK13		MK33					
FE3J10		MK23		MK43				
FE3J14			MK33		MK53			
FE4J13			MK34		MK54			
FE4J20				MK44		MK64		
FE4J26					MK54		MK74	
FM1J01	MK11							
FM1J02	Mk11							
FM1J03	MK11							
FM/FB2J03	MK12							
FM/FB2J05	MK12							
FM/FB2J06	MK12							
FM/FB3J06	MK13							
FM/FB3J08	MK13		MK33					
FM/FB3J11			MK33	MK43				
FM/FB4J11			Mk34	MK44				
FM/FB4J16				Mk44	MK54			
FM/FB4J21					Mk54	Mk64		

Attention !!

This table shows standard compatibility between fans and round type filers for following applications:

Mod. MK..suitable for more difficult products, with MEDIUM LOW filtering velocity.

The typical applications shown in this table are :

Filter On Big Hopper – (to help air exhaust, with low negative pressure) FM/FB2J03

Filter on Small Hopper – (with Max 8/10m distance from dusty point)

For any other application (air volumes and vacuum water gauge mm H^20 different from stated performance, higher vacuum distance than (8/10m) please contact our Technical Department.