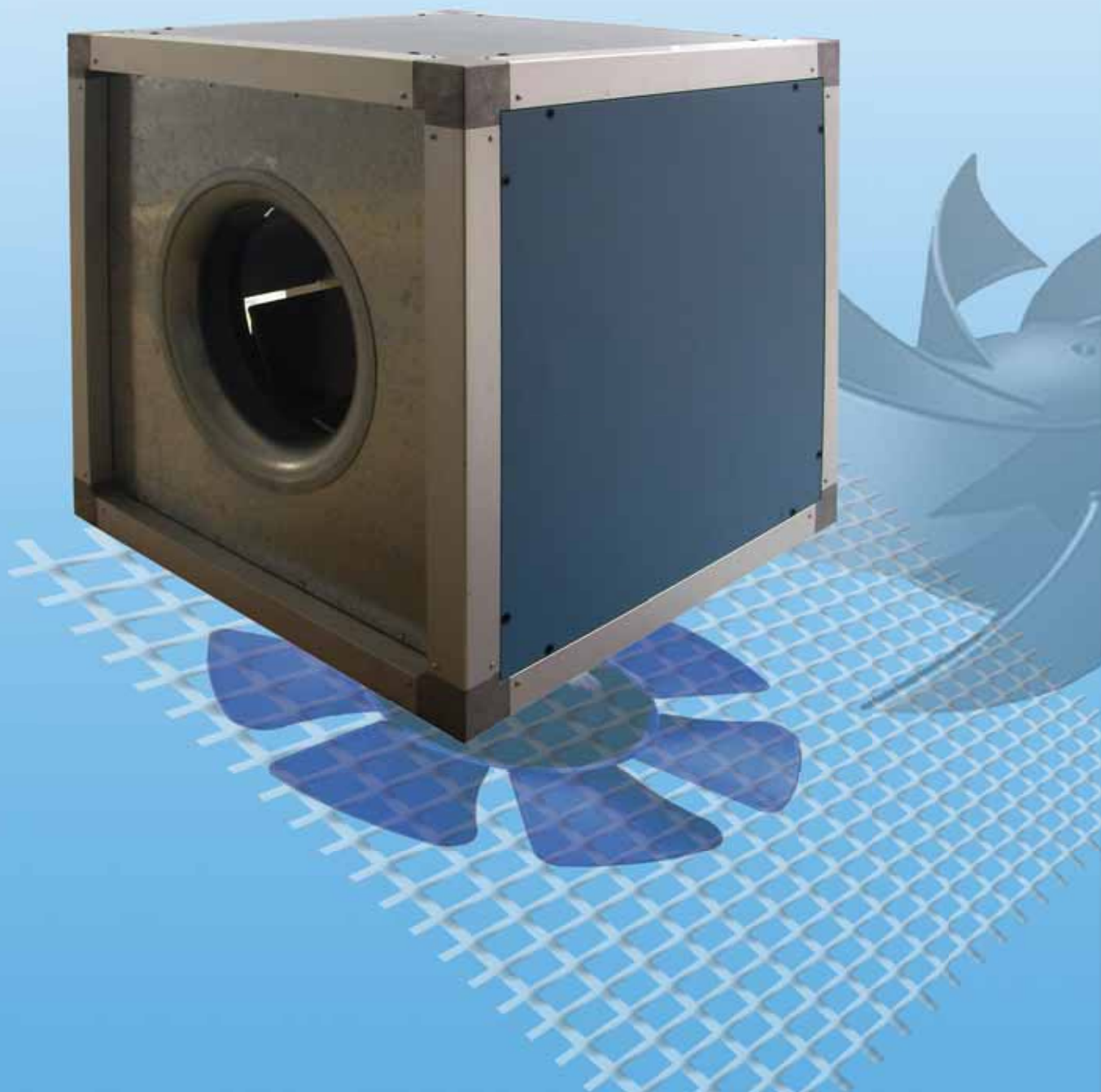


Kitchen Box Fan

MBF Series

Model Nos.: MBF



CONTENTS

MBF with backward curved impellers

Range 355-450: with external rotor motor

Range 500-710: with standard ZEC, IEC motor with B5 mounting

Page

Technical information	3 - 4
Performance curves	5 - 22
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MBF BOX FAN

MBF range of backward curve centrifugal fan give optimum performance and higher efficiency yet low operation noise.

It is developed & tested with German technology with non-overloading characteristics. This set of ventilation fans is widely used in the market not only for the performance but also simple & easy installation thanks to its design.

- 20mm/40mm double skinned panel available in mineral wool steel or PU panel for ultra acoustic insulation.
- Panel of all side can be easily disassemble for inspection or maintenance.
- Air flow can be configured for straight throw or 90 ° direction.
- Best used for kitchen exhaust system. MBF box fan can replace the traditional bifurcated fan. It generate higher static pressure and motor can be located out of the air stream.
- For DV series, fan motors can be connected in delta configuration to run at high speed (1400rpm) or in star configuration to run at low speed (1000rpm).
- The multi-box fans come with 20 mm or 40mm double skinned panels with mineral wool or PU injection on all sides providing an effective acoustic insulation.
- The multi-box fans are designed for easy installation. These fans can be installed at a bend/ elbow of a duct system to eliminate the pressure loss across the bend/elbow.
- Casing panels can be disassembled easily from all sides to facilitate easy maintenance and replacement of parts.
- Multi-box fans have low sound level due to the acoustic insulation.
- High efficiency & higher static pressure.

Panel insulation is provided by non flammable mineral fibre slab in accordance with DIN 4102.

Thermal insulation $K = 0,89 \text{ W/m}^2\text{k}$ in acc. with DIN 52210. Sound insulation $R_w = \text{appr. } 25 \text{ dB}$ in acc. with DIN 52210.

The Lti accessories:

- Speed controllers
- flexible connections
- counter flanges
- shutters

The Lti performance curves

have been tested using a duct test chamber in accordance with DIN 24163. The values refer to an air density of $1,2 \text{ kg/m}^3$ at 25°C .

Noise levels:

The technical data show the A-rated sound pressure levels L_{PA} . Tolerances in accordance with technical conditions of supply of fans DIN 24166, class 3. Noise level ca. $0,5 \times D_{pfa \text{ max}}$.

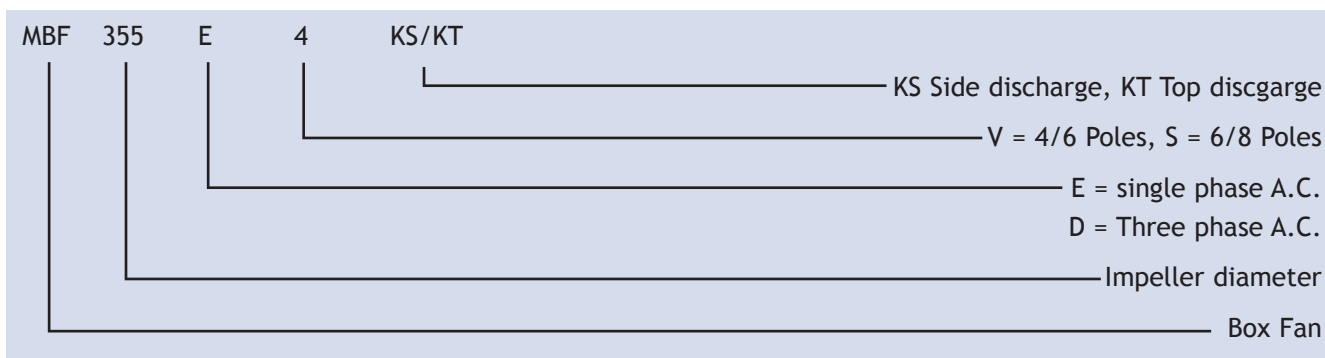
The Seacon selection criteria:

- Size
- Air volume
- Static pressure
- Sound requirements

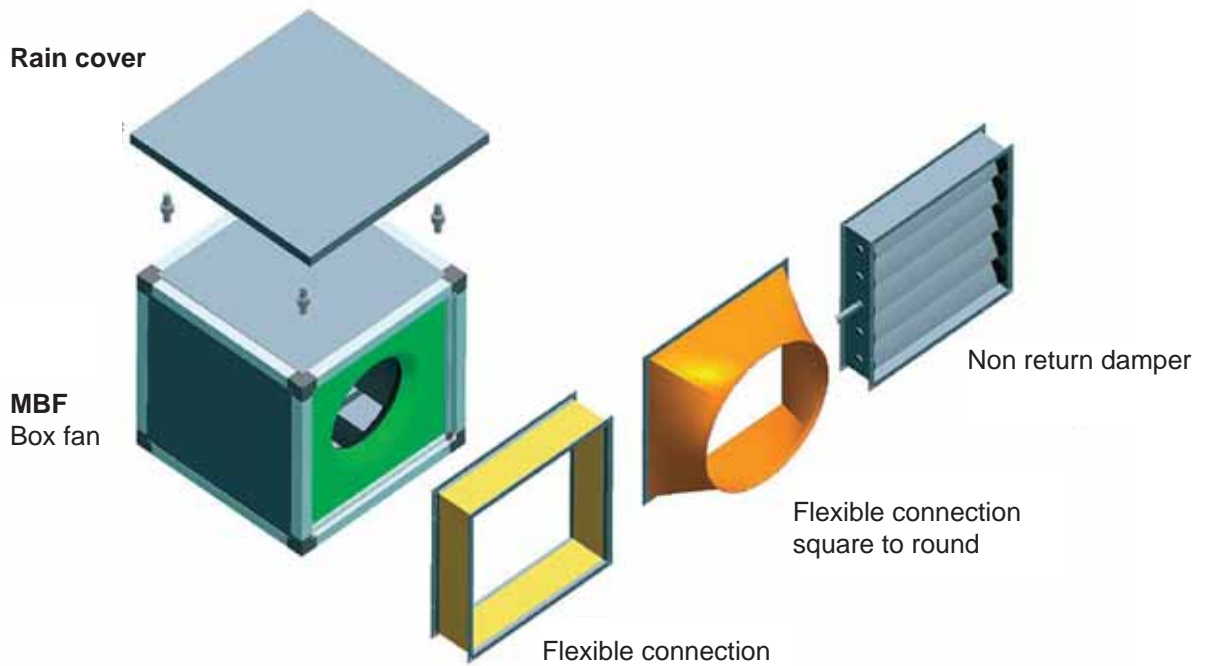
Rated data:

P_1 :	absorbed power at motor shaft [kW]
P_2 :	power at shaft [kW]
I_N :	rated current [A]
n:	rated speed [1/min]
C_{400} :	operating capacitor [μF]
t_R :	ambient temperature [$^\circ\text{C}$] max.
t_T :	medium temperature [$^\circ\text{C}$] max.
Iso.kl.:	insulation class motor
I_A / I_N :	proportion starting / rated current
Weight:	total weight

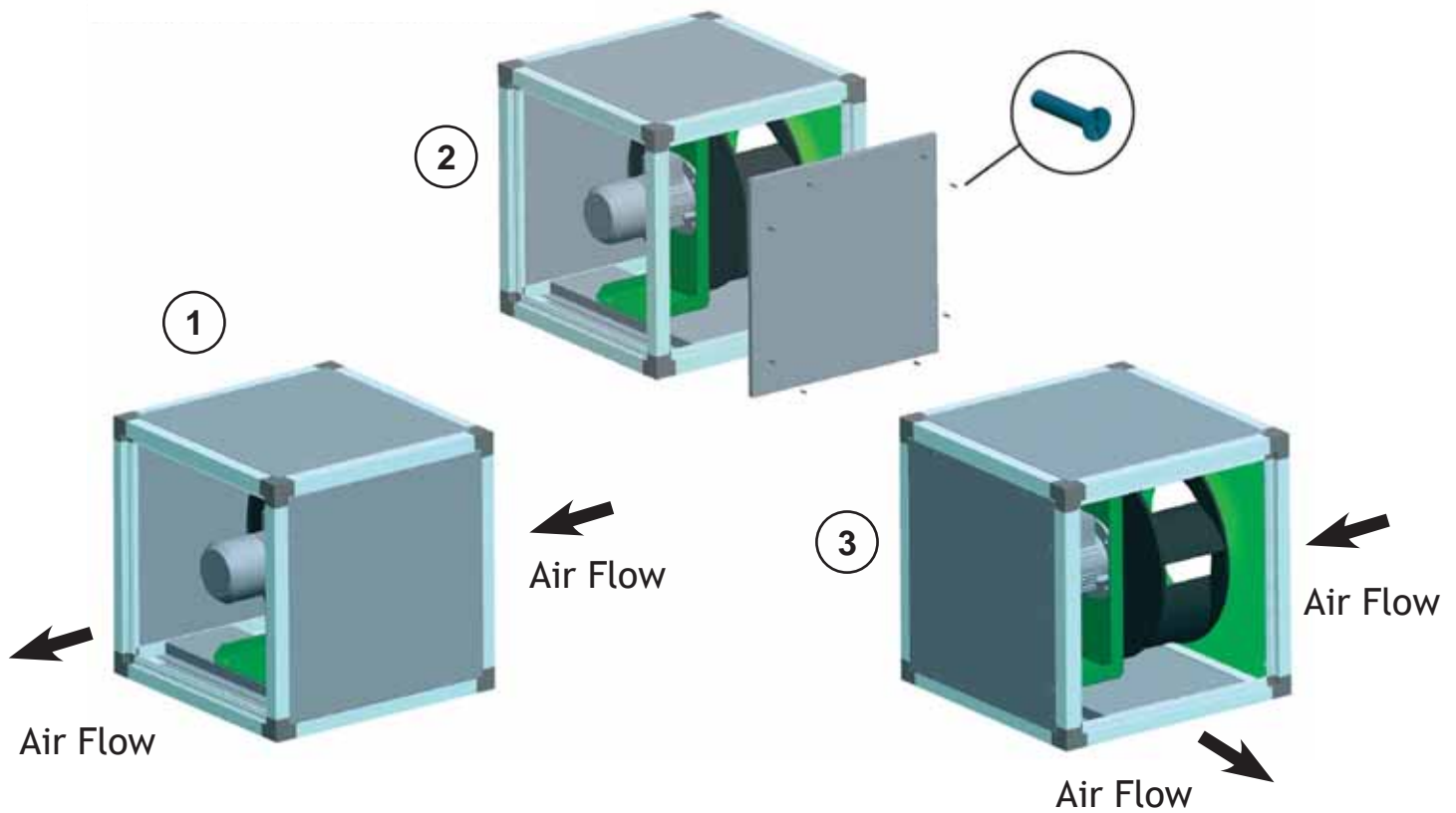
Reference code



Mounting of MBF Accessories



Changing of air flow direction MBF



MBF 355

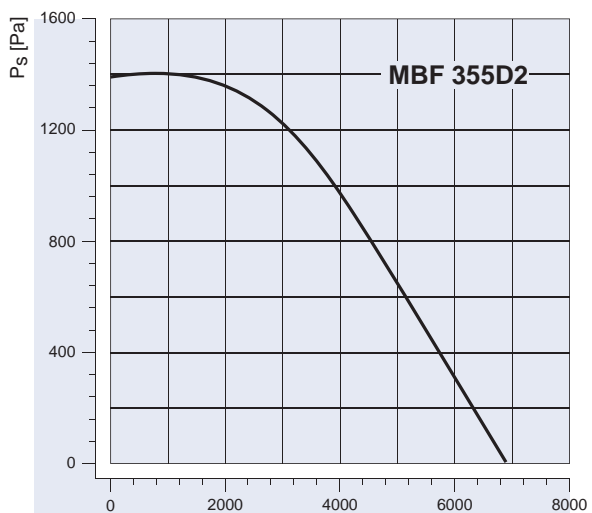
- Speed-controllable
- Modular system
- Integral thermal contacts
- Low sound level
- Maintenance-free and reliable

The MBF fan size 355 have impellers with aluminium backward curved blades, The MBF 355D2 is equipped with IEC standard motors. The casing consists of an aluminium frame, aluminium corners and 20 mm or 40mm double skin panels filled with mineral wool or PU insulation. Panels are removable and replacable, allowing flexible ventilation solutions.

Motor protection by thermal contacts, to be connected to an external motor protection device. The box fans can be delivered for straight thru or easily rebuilt to 90° airflow direction. kitchen application is also possible as motor out of air stream configuration is possible. Changing the airflow direction see page 4.



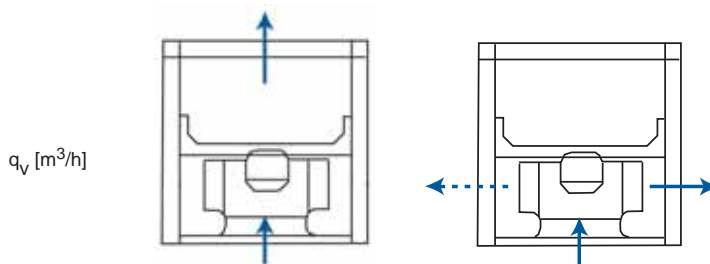
MBF		355D2
Voltage/Frequency	V/50 Hz	400
Phase	~	
Power	W	2200
Current	A	3.72
Max. air flow at air direction A/B	m ³ /h	6900
R.p.m.	min ⁻¹	2740
Max. temp. of transported air	°C	250
Max. temp. of transported air when speed controlled	°C	250
Sound Pressure level at 1m	dB (A)	66
Weight	kg	40
Insulation class, motor		F
Enclosure class, motor		IP 55



MBF 355D2

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L _{wA} Inlet	dB (A)	83	70	72	76	78	77	74	69	62
L _{wA} Outlet	dB (A)	85	72	74	78	80	79	76	71	77
L _{wA} Surrounding	dB (A)	77	64	66	70	72	71	68	63	56

Measuring point: $q_v = 3000 \text{ m}^3/\text{h}$, $P_s = 1200 \text{ Pa}$

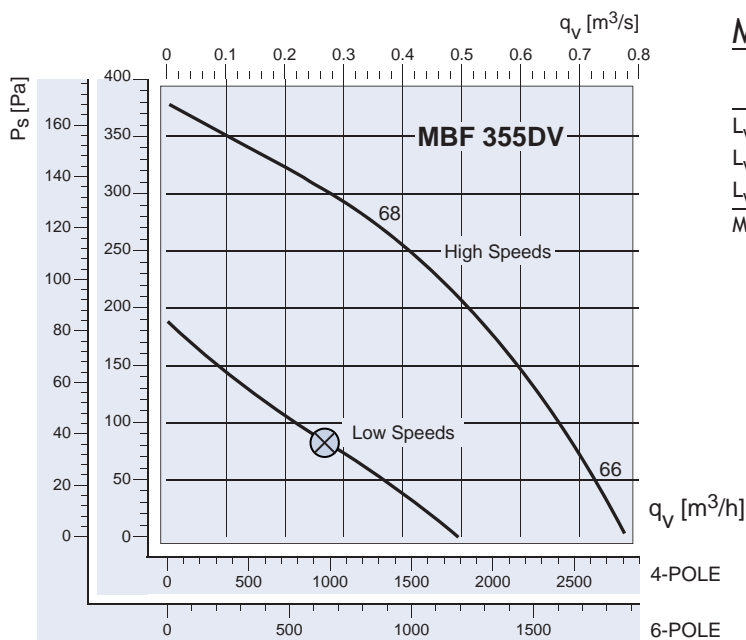


- Speed-controllable
- Modular system
- Integral thermal contacts
- Low sound level
- Maintenance-free and reliable

The MBF fan size 355 have impellers with aluminium backward curved blades, The MBF 355D4/E4 is equipped with external rotor motor. The casing consists of an aluminium frame, aluminium corners and 20 mm or 40mm double skin panels filled with mineral wool or PU insulation. The panels are easily removable and replacable, allowing flexible ventilation solutions. Motor protection by thermal contacts are to be connected to an external motor protection device. The Multibox fans can be delivered for straight thru or easily rebuilt to 90° air direction airflow. Changing the airflow direction see page 4.



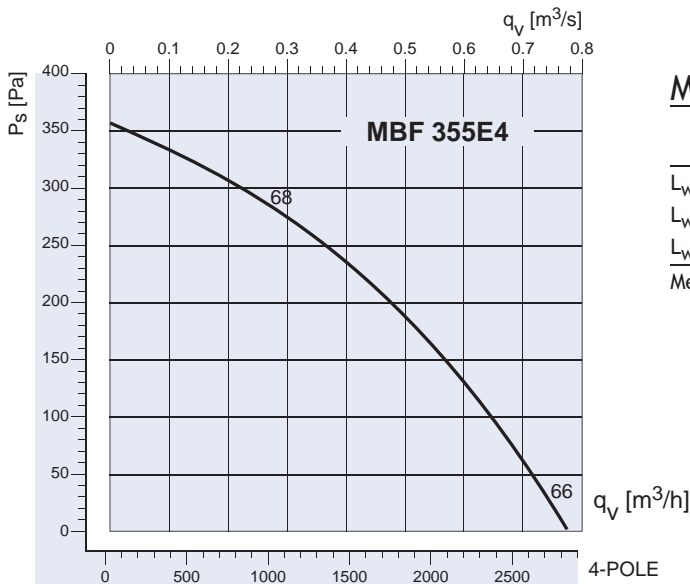
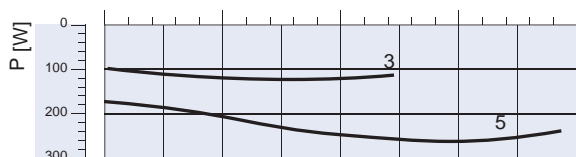
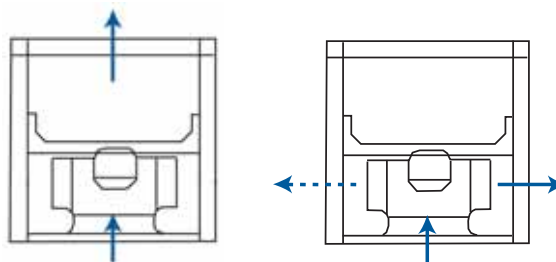
MBF		355DV	355E4
Voltage/Frequency	V/50 Hz	400	230
Phase	~	3	1
Power	W	335	260
Current	A	0.52	1.14
Max. air flow at air direction A/B	m ³ /h	2800	2800
R.p.m.	min ⁻¹	1300	1260
Max. temp. of transported air	°C	250	250
Max. temp. of transported air when speed controlled	°C	250	250
Sound Pressure level at 1m	dB (A)	55	55
Weight	kg	37	37
Insulation class, motor		B	B
Enclosure class, motor		IP 54	IP 54



MBF 355DV (BASE ON 4-POLE)

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	68	55	57	61	63	62	59	54	47
L_{wA} Outlet	dB (A)	70	57	59	63	65	64	61	56	49
L_{wA} Surrounding	dB (A)	62	49	51	55	57	56	53	48	41

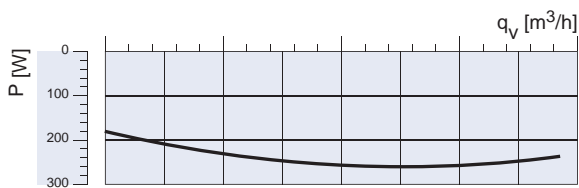
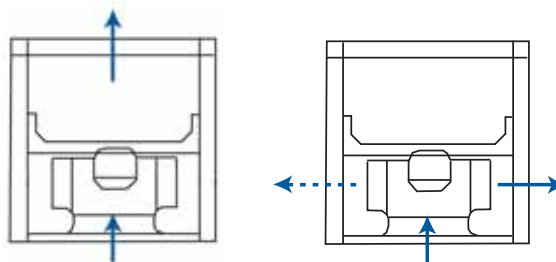
Measuring point: $q_v = 1300 m^3/h$, $P_s = 270 Pa$



MBF 355E4

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	68	55	57	61	63	62	59	54	47
L_{wA} Outlet	dB (A)	70	57	59	63	65	64	61	56	49
L_{wA} Surrounding	dB (A)	62	49	51	55	57	56	53	48	41

Measuring point: $q_v = 1300 m^3/h$, $P_s = 250 Pa$



- Speed-controllable
- Modular system
- Integral thermal contacts
- Low sound level
- Maintenance-free and reliable

The MBF fan size 400 have impellers with aluminium backward curved blades. The MBF 400 is equipped with external rotor or IEC motor. The casing consists of aluminium frame, aluminium corners and 20 mm or 40mm double skin panels filled with mineral wool or PU insulation. The panels are easily removable and replacable, allowing flexible ventilation solutions. Motor protection by thermal contacts are to be connected to an external motor protection device. The box fans can be delivered for straight thru or easily rebuilt to 90° air flow direction. Kitchen application is possible as motor out of air stream configuration is possible. Changing the airflow direction see page 4.

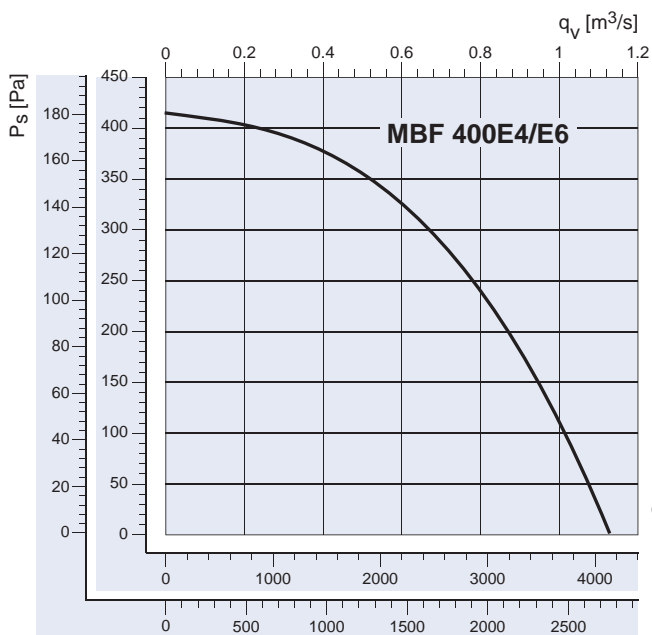


MBF		400DV	400E4	400E6
Voltage/Frequency	V/50 Hz	400	230	230
Phase	~	3	1	1
Power	W	460/310	520	160
Current	A	0.85/0.5	2.2	0.75
Max. air flow at air direction A/B	m ³ /h	4000	4050	2700
R.p.m.	min ⁻¹	1340	1360	890
Max. temp. of transported air	°C	250	250	250
Max. temp. of transported air when speed controlled	°C	250	250	250
Sound Pressure level at 1m	dB (A)	49	49	35
Weight	kg	59	59	49
Insulation class, motor		F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54

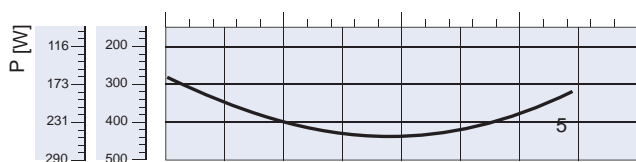
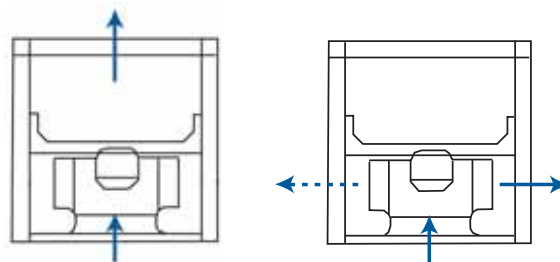
MBF 400E4

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	72	59	61	65	67	66	63	58	51
L_{wA} Outlet	dB (A)	74	61	63	67	69	68	65	60	53
L_{wA} Surrounding	dB (A)	56	43	45	49	51	50	47	42	35

Measuring point: $q_v = 1900 \text{ m}^3/\text{h}$, $P_s = 350 \text{ Pa}$



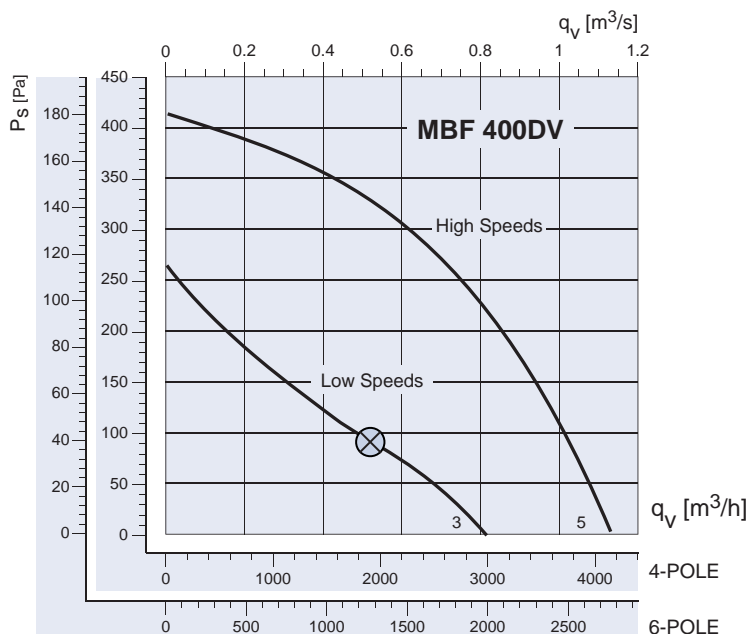
q_v [m^3/h]
4-POLE
6-POLE



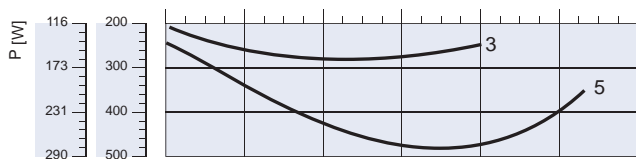
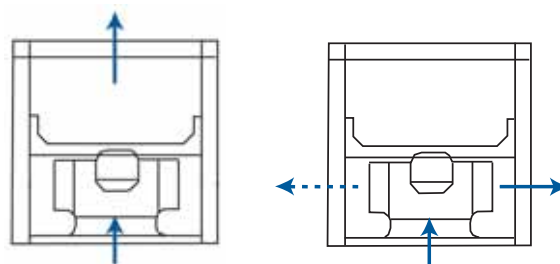
MBF 400DV (BASE ON 4-POLE)

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	72	59	61	65	67	66	63	58	51
L_{wA} Outlet	dB (A)	74	61	63	67	69	68	65	60	53
L_{wA} Surrounding	dB (A)	56	43	45	49	51	50	47	42	35

Measuring point: $q_v = 1500 \text{ m}^3/\text{h}$, $P_s = 350 \text{ Pa}$



q_v [m^3/h]
4-POLE
6-POLE

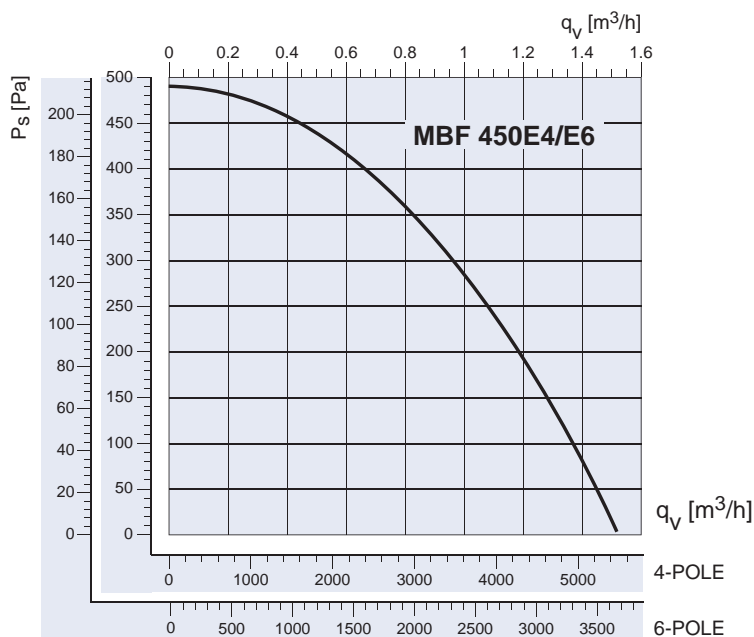


- Speed-controllable
- Modular system
- Integral thermal contacts
- Low sound level
- Maintenance-free and reliable

The MBF fan size 450 have impellers with aluminium backward curved blades. The MBF 450 is equipped with external rotor or IEC motor. The casing consists of aluminium frame, aluminium corners and 20 mm or 40mm double skin panels filled with mineral wool or PU insulation. The panels are easily removable and replacable, allowing flexible ventilation solutions. Motor protection by thermal contacts are to be connected to an external motor protection device. The box fans can be delivered for straight thru or easily rebuilt to 90° air direction airflow. Kitchen application is also possible as motor out of air s t r e a m configuration is possible. Changing the airflow direction see page 4



MBF		450DV	450E4	450E6
Voltage/Frequency	V/50 Hz	400	230	230
Phase	~	3	1	1
Power	W	690/300	740	300
Current	A	1.3/0.64	3.5	1.65
Max. air flow at air direction A/B	m ³ /h	5500	5500	3660
R.p.m.	min ⁻¹	1230/870	1360	840
Max. temp. of transported air	°C	250	250	250
Max. temp. of transported air when speed controlled	°C	250	250	250
Sound Pressure level at 1m	dB (A)	49	49	36
Weight	kg	59	59	49
Insulation class, motor		F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54



MBF 450E4

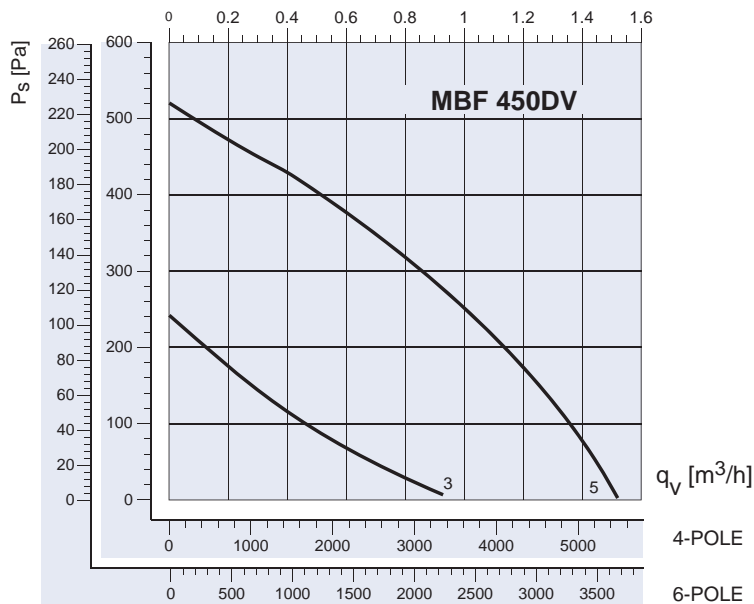
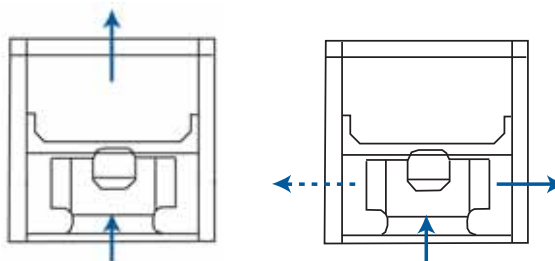
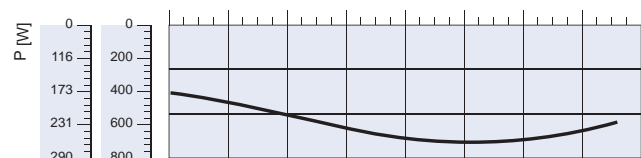
	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	75	62	64	68	70	69	66	61	54
L_{wA} Outlet	dB (A)	77	64	66	70	72	71	68	63	56
L_{wA} Surrounding	dB (A)	59	46	48	52	54	53	50	45	38

Measuring point: $q_v = 3900 m^3/h$, $P_s = 250 Pa$

MBF 450E6

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	67	54	56	61	62	62	58	53	45
L_{wA} Outlet	dB (A)	69	56	58	63	64	64	60	55	47
L_{wA} Surrounding	dB (A)	51	38	40	45	46	46	42	37	29

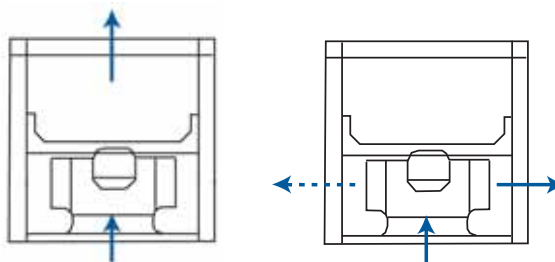
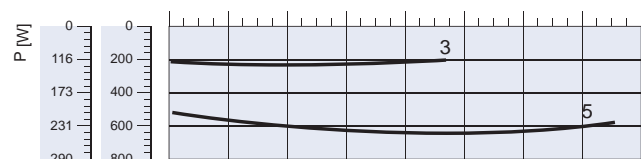
Measuring point: $q_v = 2300 m^3/s$, $P_s = 130 Pa$



MBF 450DV (BASE ON 4-POLE)

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	74	61	63	67	69	68	65	50	53
L_{wA} Outlet	dB (A)	76	63	65	69	71	70	67	62	55
L_{wA} Surrounding	dB (A)	59	46	48	52	54	53	50	45	38

Measuring point: $q_v = 3000 m^3/h$, $P_s = 300 Pa$



MBF 500

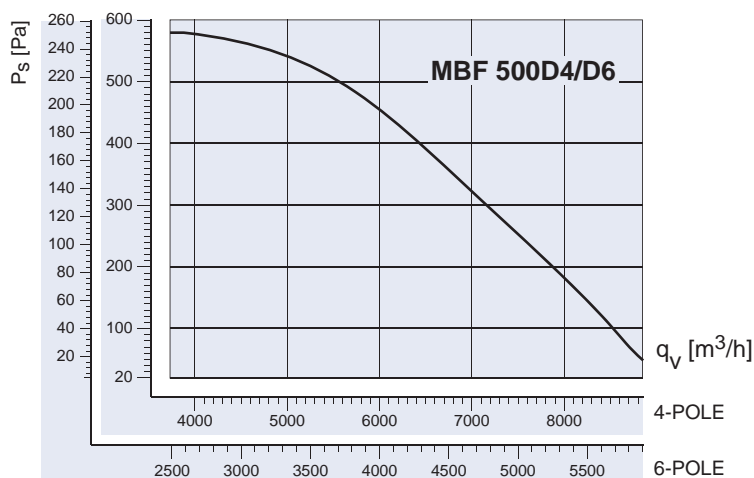
- Speed-controllable
- Modular system
- Low sound level
- Maintenance-free and reliable

The MBF fan size 500 have impellers with aluminium backward curved blade. The MBF 500 is equipped with IEC motor. The casing consists of aluminium frame, aluminium corners and 20mm or 40mm double skin panels filled with mineral wool or PU insulation. The panels are easily removable and replacable, allowing flexible ventilation solutions.

Motor protection by thermal contacts are to be connected to an external motor protection device. The box fans can be delivered for straight thru or easily rebuilt to 90° direction airflow. Kitchen application is also possible as motor out of air stream configuration is possible. Changing the airflow direction see page 4



MBF		500D4	500D6	500E4	500E6
Voltage/Frequency	V/50 Hz	400	400	230	230
Phase	~	3	3	1	1
Power	W	1500	750	1500	750
Current	A	3.5	1.97	10.5	4.8
Max. air flow at air direction A/B	m ³ /h	9000	6000	9000	6000
R.p.m.	min ⁻¹	1390	915	1360	890
Max. temp. of transported air	°C	250	250	250	250
Max. temp. of transported air when speed controlled	°C	250	250	250	250
Sound Pressure level at 1m	dB (A)	56	46	56	46
Weight	kg	68	60	68	60
Insulation class, motor		F	F	F	F
Enclosure class, motor		IP 55	IP 55	IP 55	IP 55



MBF 500D4

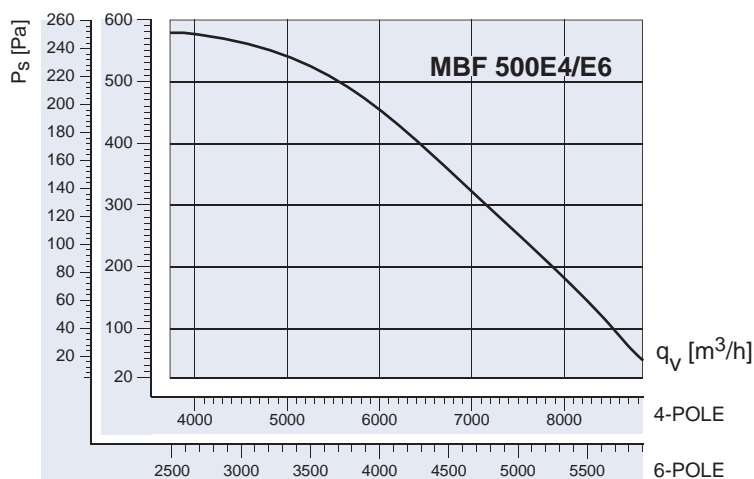
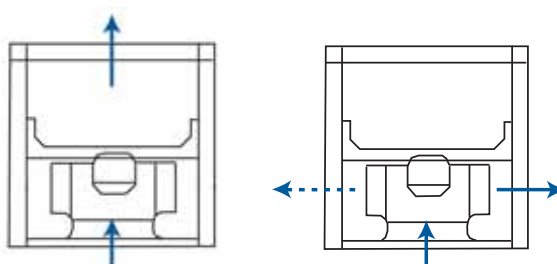
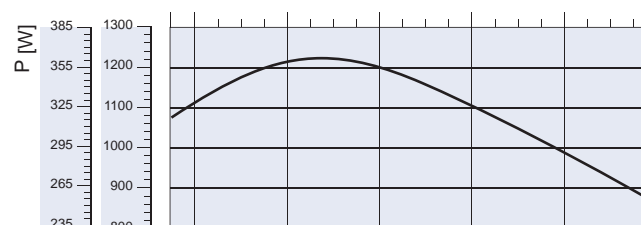
	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	78	65	67	71	73	72	69	64	57
L_{wA} Outlet	dB (A)	80	67	69	73	75	74	71	66	59
L_{wA} Surrounding	dB (A)	63	50	52	56	58	57	54	49	42

Measuring point: $q_v = 7000 \text{ m}^3/\text{h}$, $P_s = 320 \text{ Pa}$

MBF 500D6

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	67	54	56	61	62	62	58	53	45
L_{wA} Outlet	dB (A)	69	56	58	63	64	64	60	55	47
L_{wA} Surrounding	dB (A)	53	40	42	47	48	48	44	39	31

Measuring point: $q_v = 4000 \text{ m}^3/\text{h}$, $P_s = 190 \text{ Pa}$



MBF 500E4

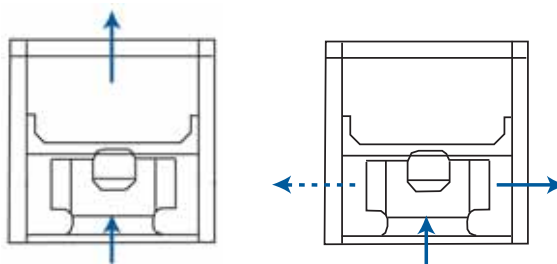
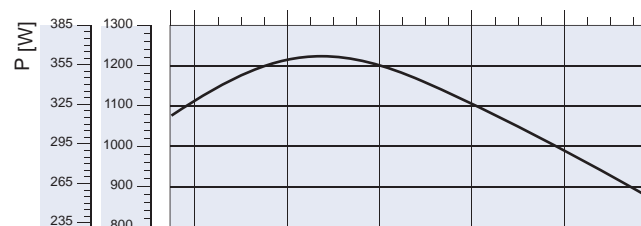
	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	79	66	68	72	74	73	70	65	58
L_{wA} Outlet	dB (A)	81	68	70	74	76	75	72	67	60
L_{wA} Surrounding	dB (A)	63	50	52	56	58	57	54	49	42

Measuring point: $q_v = 7000 \text{ m}^3/\text{h}$, $P_s = 320 \text{ Pa}$

MBF 500E6

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB (A)	67	54	56	61	62	62	58	53	45
L_{wA} Outlet	dB (A)	69	56	58	63	64	64	60	55	47
L_{wA} Surrounding	dB (A)	53	40	42	47	48	48	44	39	31

Measuring point: $q_v = 4000 \text{ m}^3/\text{h}$, $P_s = 190 \text{ Pa}$



MBF 560

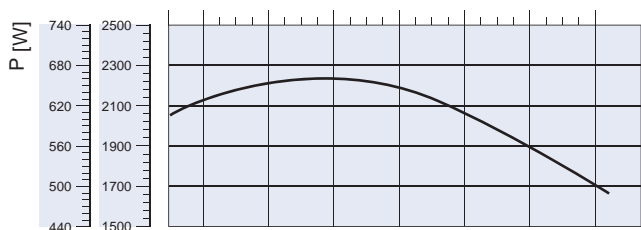
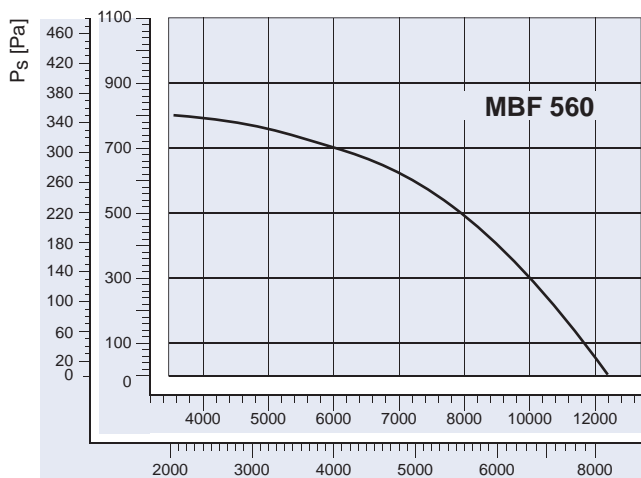
- Speed-controllable
- Modular system
- Low sound level
- Maintenance-free and reliable

The MBF fan size 560 have impellers with aluminium backward curved blade. The MBF 560 is equipped with IEC motor. The casing consists of aluminium frame, aluminium corners and 20mm or 40mm double skin panels filled with mineral wool or PU insulation. The panels are easily removable and replacable, allowing flexible ventilation solutions.

Motor protection by thermal contacts are to be connected to an external motor protection device. The box fans can be delivered for straight thru or easily rebuilt to 90° direction airflow. Kitchen application is also possible as motor out of air stream configuration is possible. Changing the airflow direction see page 4



MBF		560D4	560D6	560E4	560E6
Voltage/Frequency	V/50 Hz	400	400	230	230
Phase	~	3	3	1	1
Power	W	2200	750	2200	750
Current	A	4.36	2.2	1.97/2.6	4.8
Max. air flow at air direction A/B	m ³ /h	12000	8000	12000	8000
R.p.m.	min ⁻¹	1440	915	1430	890
Max. temp. of transported air	°C	250	250	250	250
Max. temp. of transported air when speed controlled	°C	250	250	250	250
Sound Pressure level at 1m	dB (A)	57	48	57	48
Weight	kg	130	110	130	110
Insulation class, motor		F	F	F	F
Enclosure class, motor		IP 55	IP 55	IP 55	IP 55



MBF 560D4/MBF 560E4

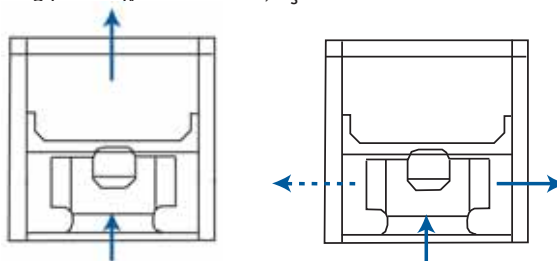
	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L _{wA} Inlet	dB (A)	79	66	68	72	74	73	70	65	58
L _{wA} Outlet	dB (A)	81	68	70	74	76	75	72	67	60
L _{wA} Surrounding	dB (A)	64	51	53	57	59	58	55	50	43

Measuring point: $q_v = 8000 \text{ m}^3/\text{h}$, $P_s = 500 \text{ Pa}$

MBF 560D6/MBF 560E6

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L _{wA} Inlet	dB (A)	70	57	59	64	65	65	61	56	48
L _{wA} Outlet	dB (A)	72	59	61	66	67	67	63	58	50
L _{wA} Surrounding	dB (A)	55	42	44	44	50	50	46	41	33

Measuring point: $q_v = 5000 \text{ m}^3/\text{h}$, $P_s = 260 \text{ Pa}$



MBF 560-L

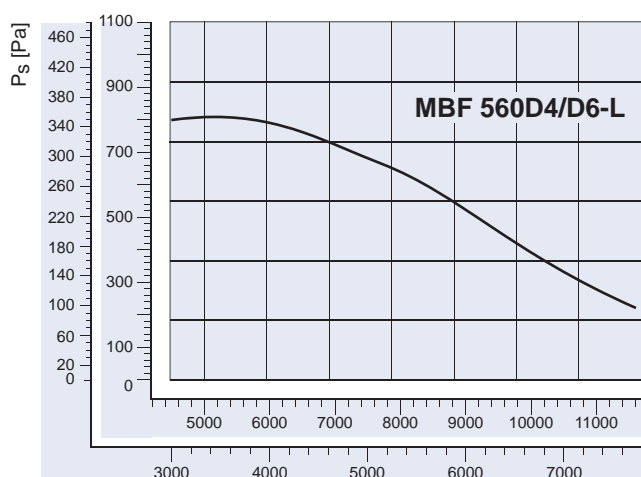
- Speed-controllable
- Modular system
- Low sound level
- Maintenance-free and reliable

The MBF fan size 560 have impellers with aluminium backward curved blade. The MBF 560 is equipped with IEC motor. The casing consists of aluminium frame, aluminium corners and 20mm or 40mm double skin panels filled with mineral wool or PU insulation. The panels are easily removable and replacable, allowing flexible ventilation solutions.

Motor protection by thermal contacts are to be connected to an external motor protection device. The box fans can be delivered for straight thru or easily rebuilt to 90° direction airflow. Kitchen application is also possible as motor out of air stream configuration is possible. Changing the airflow direction see page 4



MBF		560D4-L	560D6-L
Voltage/Frequency	V/50 Hz	400	400
Phase	~	3	3
Power	W	3000	1100
Current	A	6.06	3.04
Max. air flow at air direction A/B	m ³ /h	14000	9330
R.p.m.	min ⁻¹	1410	960
Max. temp. of transported air	°C	250	250
Max. temp. of transported air when speed controlled	°C	250	250
Sound Pressure level at 1m	dB (A)	67	50
Weight	kg	135	117
Insulation class, motor		F	F
Enclosure class, motor		IP 55	IP 55



MBF 560D4-L

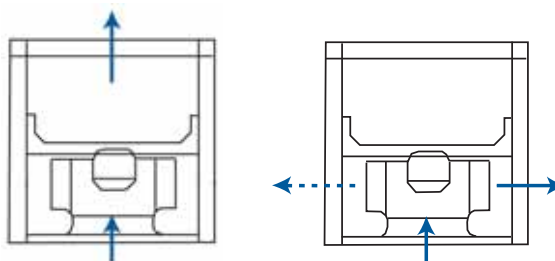
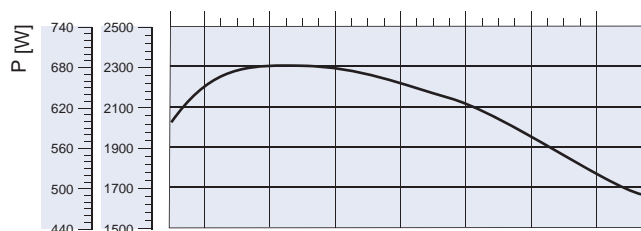
	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet	dB (A)	79	66	68	72	74	73	70	65	58
L_{WA} Outlet	dB (A)	81	68	70	74	76	75	72	67	60
L_{WA} Surrounding	dB (A)	64	51	53	57	59	58	55	50	43

Measuring point: $q_v = 9000 \text{ m}^3/\text{h}$, $P_s = 500 \text{ Pa}$

MBF 560D6-L

	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet	dB (A)	70	57	59	64	65	65	61	56	48
L_{WA} Outlet	dB (A)	72	59	61	66	67	67	63	58	50
L_{WA} Surrounding	dB (A)	55	42	44	49	50	50	46	41	33

Measuring point: $q_v = 5000 \text{ m}^3/\text{h}$, $P_s = 280 \text{ Pa}$



- Speed-controllable
- Modular system
- Low sound level
- Maintenance-free and reliable

The MBF fan size 630 have impellers with aluminium backward curved blade. The MBF 630 is equipped with IEC motor. The casing consists of aluminium frame, aluminium corners and 20mm or 40mm double skin panels filled with mineral wool or PU insulation. The panels are easily removable and replacable, allowing flexible ventilation solutions.

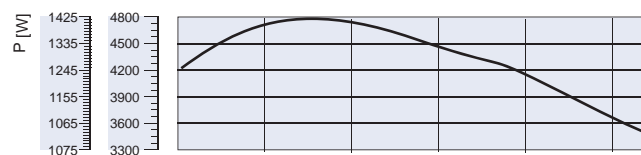
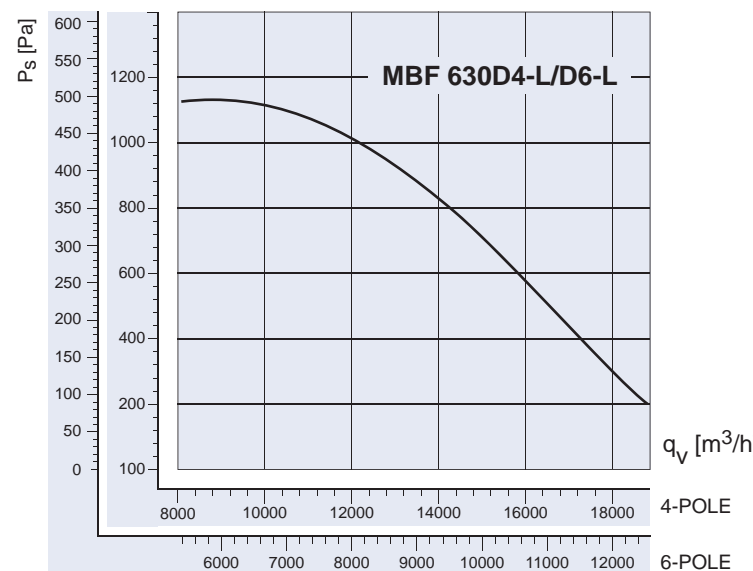
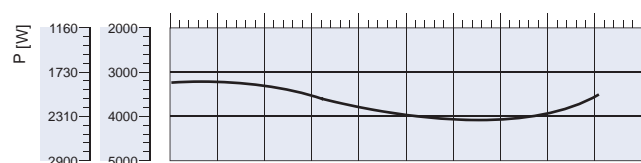
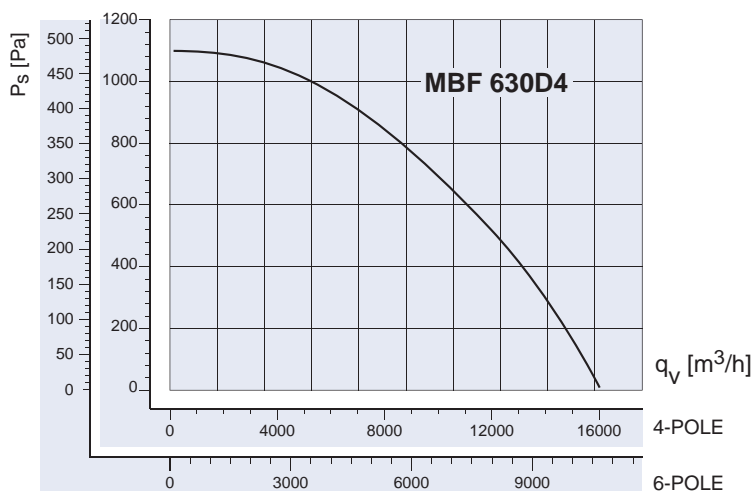
Motor protection by thermal contacts are to be connected

to an external motor protection device. The box fans can be delivered for straight thru or easily rebuilt to 90° direction airflow. Kitchen application is also possible as motor out of air stream configuration is possible.

Changing the airflow direction see page 4



MBF		630D4	630D6	630D4-L	630D6-L
Voltage/Frequency	V/50 Hz	400	400	400	400
Phase	~	3	3	3	3
Power	W	4000	1500	5500	1500
Current	A	8	3.7	11	3.7
Max. air flow at air direction A/B	m ³ /h	16000	10600	20000	13333
R.p.m.	min ⁻¹	1400	910	1440	910
Max. temp. of transported air	°C	250	250	250	250
Max. temp. of transported air when speed controlled	°C	250	250	250	250
Sound Pressure level at 1m	dB (A)	69	54	70	55
Weight	kg	135	135	170	170
Insulation class, motor		F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54



MBF 630D4

Mid-frequency band, Hz

	Hz	Tot	63	125	250	500	1k	2k	4k	8k	
L_{WA} Inlet		dB (A)	87	74	76	80	82	81	78	73	66
L_{WA} Outlet		dB (A)	89	76	78	82	84	83	80	75	68
L_{WA} Surrounding		dB (A)	76	63	65	69	71	70	67	62	55

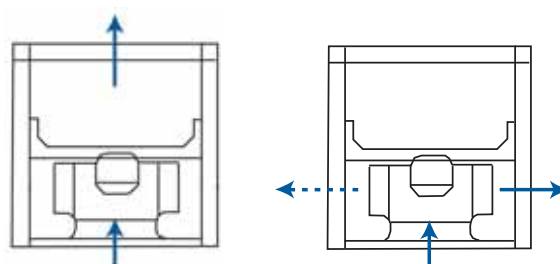
Measuring point: $q_v = 7000 \text{ m}^3/\text{h}$, $P_s = 911 \text{ Pa}$

MBF 630D6

Mid-frequency band, Hz

	Hz	Tot	63	125	250	500	1k	2k	4k	8k	
L_{WA} Inlet		dB (A)	74	61	63	68	69	69	65	60	52
L_{WA} Outlet		dB (A)	76	63	65	70	71	71	67	62	54
L_{WA} Surrounding		dB (A)	61	49	51	54	56	56	52	47	39

Measuring point: $q_v = 6000 \text{ m}^3/\text{h}$, $P_s = 300 \text{ Pa}$



MBF 630D4-L

Mid-frequency band, Hz

	Hz	Tot	63	125	250	500	1k	2k	4k	8k	
L_{WA} Inlet		dB (A)	92	57	74	84	86	87	86	80	71
L_{WA} Outlet		dB (A)	94	58	75	86	87	89	89	83	73
L_{WA} Surrounding		dB (A)	83	52	70	76	78	77	76	64	66

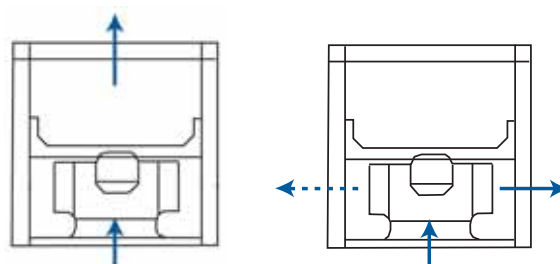
Measuring point: $q_v = 15000 \text{ m}^3/\text{h}$, $P_s = 650 \text{ Pa}$

MBF 630D6-L

Mid-frequency band, Hz

	Hz	Tot	63	125	250	500	1k	2k	4k	8k	
L_{WA} Inlet		dB (A)	80	44	60	72	72	75	74	68	62
L_{WA} Outlet		dB (A)	81	45	62	73	74	76	76	70	60
L_{WA} Surrounding		dB (A)	65	38	40	56	58	58	60	55	48

Measuring point: $q_v = 10000 \text{ m}^3/\text{h}$, $P_s = 300 \text{ Pa}$



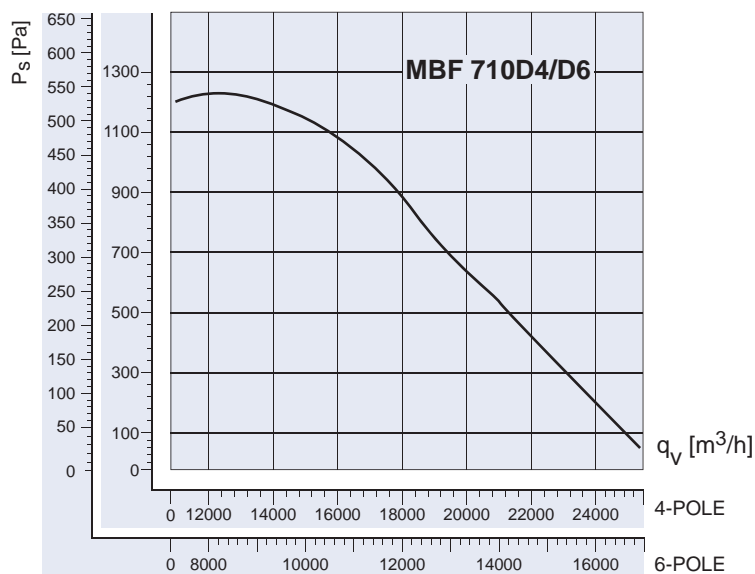
- Speed-controllable
- Modular system
- Low sound level
- Maintenance-free and reliable

The MBF fan size 710 have impellers with aluminium backward curved blade. The MBF 710 is equipped with IEC motor. The casing consists of aluminium frame, aluminium corners and 20mm or 40mm double skin panels filled with mineral wool or PU insulation. The panels are easily removable and replacable, allowing flexible ventilation solutions.

Motor protection by thermal contacts are to be connected to an external motor protection device. The box fans can be delivered for straight thru or easily rebuilt to 90° direction airflow. Kitchen application is also possible as motor out of air stream configuration is possible. Changing the airflow direction see page 4



MBF		710D4	710D6
Voltage/Frequency	V/50 Hz	400	400
Phase	~	3	3
Power	W	11000	3000
Current	A	20.1	6.03
Max. air flow at air direction A/B	m ³ /h	24000	16000
R.p.m.	min ⁻¹	1440	960
Max. temp. of transported air	°C	250	250
Max. temp. of transported air when speed controlled	°C	250	250
Sound Pressure level at 1m	dB (A)	76	66
Weight	kg	200	160
Insulation class, motor		F	F
Enclosure class, motor		IP 54	IP 54



MBF 710D4

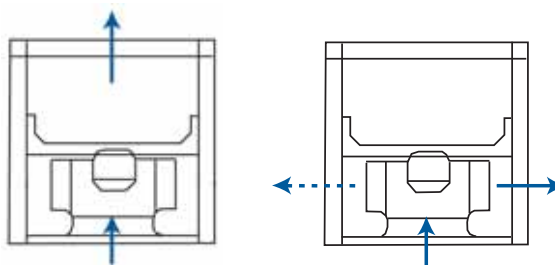
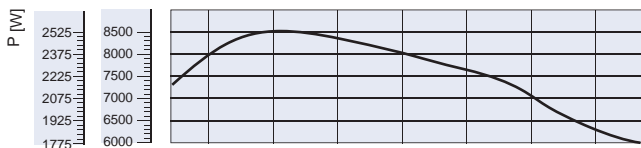
	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet	dB (A)	97	90	92	88	87	90	81	75	67
L_{WA} Outlet	dB (A)	92	64	76	79	84	90	82	76	66
L_{WA} Surrounding	dB (A)	84	56	68	71	76	82	74	68	58

Measuring point: $q_v = 17000 \text{ m}^3/\text{h}$, $P_s = 1000 \text{ Pa}$

MBF 710D6

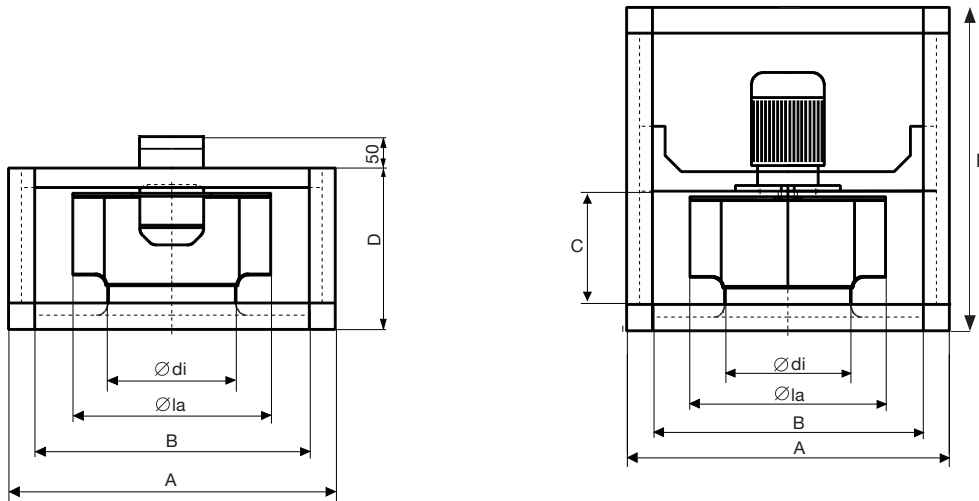
	Mid-frequency band, Hz									
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet	dB (A)	79	66	68	73	74	74	70	65	57
L_{WA} Outlet	dB (A)	81	68	70	75	76	76	72	67	59
L_{WA} Surrounding	dB (A)	67	54	56	61	62	62	58	53	45

Measuring point: $q_v = 10000 \text{ m}^3/\text{h}$, $P_s = 500 \text{ Pa}$



DIMENSIONS

Short casing KS



MBF Box Fan	A	B	Øla	Ødi	C	D	L
355	500	420	355	224	-	-	500
400	670	590	404	253	325	-	670
450	670	590	454	286	325	-	670
500	670	590	504	321	370	-	800
560	800	720	570	361	-	300	800
630	800	720	635	407	-	335	800
630L	1000	920	715	460	-	385	800
710	1000	920	715	460	-	385	800



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