

Special features of the MegaBox models are:

- Acoustically insulated high performance centrifugal fan.
- Swing out ventilator unit for easy cleaning and maintenance.
- Speed controllable IEC flange mounted motor out of the air stream with thermal overload protection.
- High total efficiency, small energy consumption and low sound levels using high performance-centrifugal impellers.
- Low cost speed control.

The optimized design of the centrifugal impeller, casing and motor provides the properties mentioned above and offers efficient operation with easy installation reducing costs.

The MegaBox meets the highest specifications. Typical applications are handling dirty, greasy, hot (up to 100 °C) and humid air, against high resistances in a variety of commercial and industrial applications.

For commercial kitchen applications DW 172 requires that centrifugal fans have backward

curved impellers and the MegaBox sizes 315 to 400 mm meet that requirement. The ability of the fan to open for cleaning is particularly useful in kitchen applications.

E Exe II 2G according to 94/9 EG

For areas in which an explosive atmosphere is likely to occur in normal operation, explosion proof models are available from 1 000 to 5 000 m³/h. Approved for operation in Zone 1 or 2 according to DIN EN 60079-10 and 94/9 (ATEX).

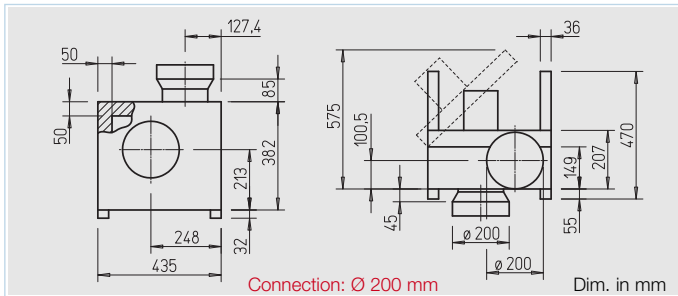
Excellent, sound and thermal insulation. All of the casing is double skinned and manufactured from galvanised sheet steel, acoustically lined with 50 mm thick mineral fibreboard. Non-flammable to DIN 4102.

Inner fan surface is made entirely from galvanised sheet steel and allows fast and efficient cleaning e.g. with a steam cleaner.

Powerful centrifugal fans for easy cleaning for high pressure systems. For commercial kitchen extract systems to DW 172.

Stable mounting rails supplied with 4 anti vibration mounts for effective vibration insulation and a quiet operation.





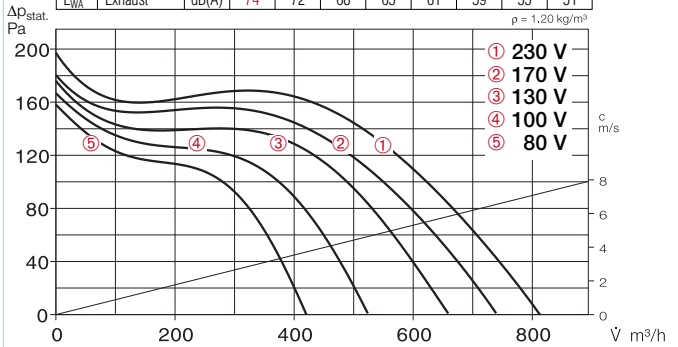
- Casing**
See "general information", page 194.
- Impeller**
Forward curved high output centrifugal-impeller, made from galvanised sheet steel, mounted directly to the motor shaft. High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.
- Motor**
Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.
- Electrical connection**
Terminal box fitted externally on the motor as standard (IP 55).

- Motor protection**
Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.
- Speed control**
All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.

- Accessories**
 - Wall bracket**, from galv. steel **MB-WK 160** Ref. No. 5526
 - Rain repellent roof**, from galv. sheet steel, mounting above the motor. **MB-WSD** Ref. No. 1856

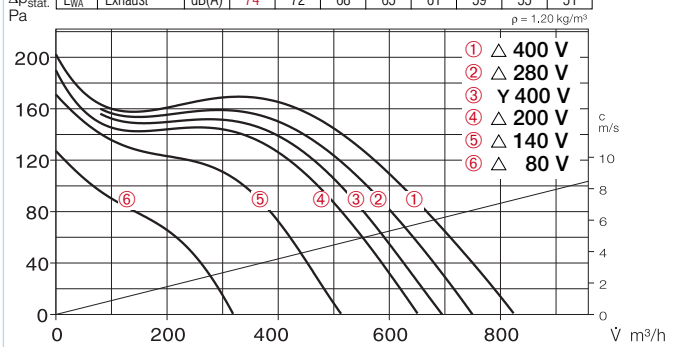
MBW 160/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	54	52	48	45	41	39	35	31
L _{WA} Intake	dB(A)	72	70	66	63	59	57	53	49
L _{WA} Exhaust	dB(A)	74	72	68	65	61	59	55	51



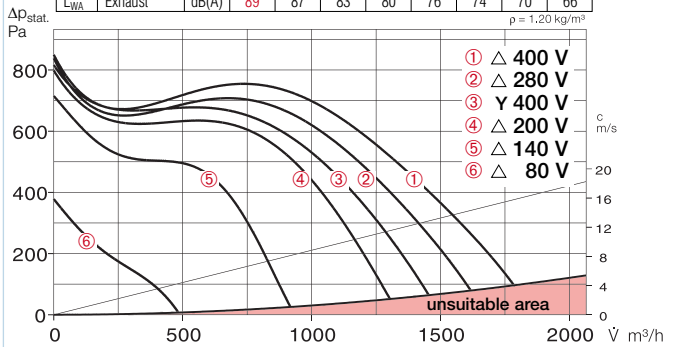
MBD 160/4/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	54	52	48	45	41	39	35	31
L _{WA} Intake	dB(A)	72	70	66	63	59	57	53	49
L _{WA} Exhaust	dB(A)	74	72	68	65	61	59	55	51



MBD 160/2/2

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	69	67	63	60	56	54	50	46
L _{WA} Intake	dB(A)	87	85	81	78	74	72	68	64
L _{WA} Exhaust	dB(A)	89	87	83	80	76	74	70	66

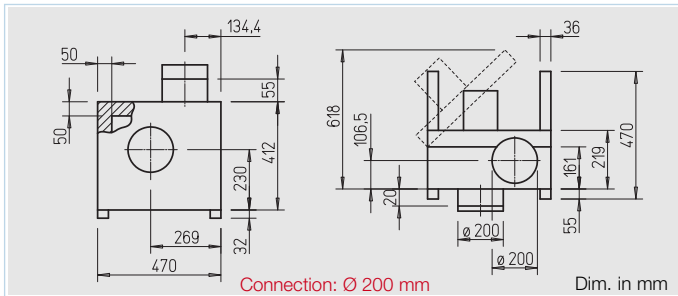


- Flexible sleeve** for installation between fan and ducting. **FM 200** Ref. No. 1670
- FM 200 Ex** Ref. No. 1686

- On/off switch for 2 speed Y/Δ-motor 3 phase fans DS 2⁴⁾** Ref. No. 1351

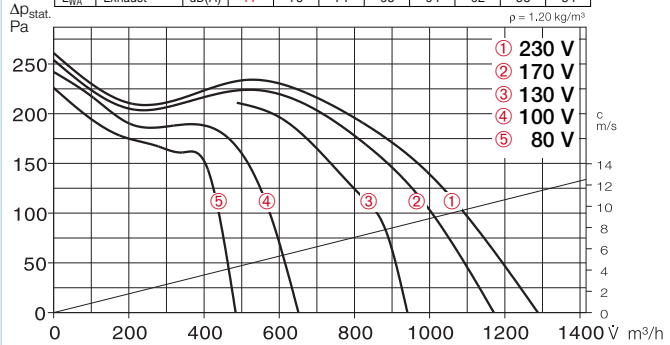
Type	Ref. No.	Air flow volume (FID)	R.P.M.	Sound press. level case breakout	Motor power (nominal)*	Current*		Wiring diagram	Maximum air flow temperature controlled		Nominal weight (net)	5 step transformer controller with motor protect. unit		Full motor protection unit			
						full load	speed controlled		+°C	+°C		Type	Ref. No.	Type	Ref. No.	Type	Ref. No.
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55																	
MBW 160/4	5930	815	1350	48	0.18	0.90	1.10	751	100	60	25	MWS 1.5	1947	TSW 1.5	1495	MW ¹⁾	1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55																	
MBD 160/4/4	5931	720/830	1200/1390	45/48	0.13/0.19	0.25/0.65	0.65	520	100	60	24	RDS 1	1314	TSD 0.8 ⁴⁾	1500	M4 ²⁾	1571
MBD 160/2/2	5932	1420/1770	2250/2800	58/63	0.90/1.10	1.60/2.20	2.50	520	100	60	34	RDS 4	1316	TSD 3.0 ⁴⁾	1502	M4 ²⁾	1571
Explosion proof E Exe II, 400 V / 3 ph. / 50 Hz, temperature class T1-T3, protection to IP 54																	
MBD 160/4 Ex ³⁾	6001	970	1420	48	0.37	1.14	—	470	40	—	25	not permitted	—	not permitted	—	—	—
MBD 160/2 Ex ³⁾	6002	2020	2840	63	1.50	3.15	—	470	40	—	34	not permitted	—	not permitted	—	—	—

* Ex-Models: for nominal value of motor see information on page 18. ¹⁾ incl. operation switch ²⁾ incl. operation and speed switch ³⁾ Performance curve on request ⁴⁾ required full motor protection unit: model MD, Ref. No. 5849



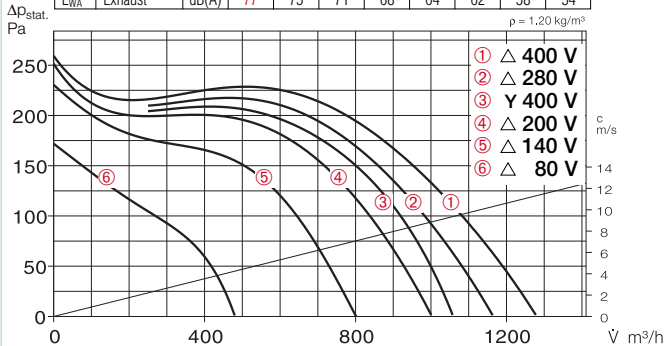
MBW 180/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout		dB(A) 57	55	51	48	44	42	38	34
L _{WA} Intake		dB(A) 75	73	69	66	62	60	56	52
L _{WA} Exhaust		dB(A) 77	75	71	68	64	62	58	54



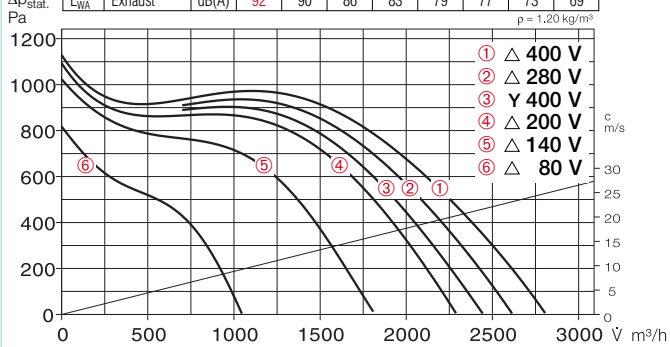
MBD 180/4/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout		dB(A) 57	55	51	58	44	42	38	34
L _{WA} Intake		dB(A) 75	73	69	66	62	60	56	52
L _{WA} Exhaust		dB(A) 77	75	71	68	64	62	58	54



MBD 180/2/2

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout		dB(A) 72	70	68	63	59	57	53	49
L _{WA} Intake		dB(A) 90	88	84	81	77	75	71	67
L _{WA} Exhaust		dB(A) 92	90	86	83	79	77	73	69



Casing

See "general information", page 194.

Impeller

Forward curved high output centrifugal-impeller, made from galvanised sheet steel, mounted directly to the motor shaft. High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.

Motor

Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.

Electrical connection

Terminal box fitted externally on the motor as standard (IP 55).

Motor protection

Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.

Speed control

All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.

Accessories

- Wall bracket**, from galv. steel
MB-WK 180 Ref. No. 5526
- Rain repellent roof**, from galv. sheet steel, mounting over the motor.
MB-WSD Ref. No. 1856

Flexible Connector for installation between fan and ducting.
FM 200 Ref. No. 1670

FM 200 Ex Ref. No. 1686

On/off switch for 2 speed Y/Δ-motor 3 phase fans DS 2⁴⁾ Ref. No. 1351

Type	Ref. No.	Air flow volume (FID) V m³/h	R.P.M. min ⁻¹	Sound press. level case breakout dB(A) in 1 m	Motor power (nominal)* kW	Current*		Wiring diagram No.	Maximum air flow temperature full load controlled		Nominal weight (net) kg	5 step transformer controller with motor protect. unit		Full motor protection unit			
						full load A	speed controlled A		+°C	+°C		Type	Ref. No.	Type	Ref. No.	Type	Ref. No.
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55																	
MBW 180/4	5933	1290	1380	51	0.34	1.80	1.80	751	100	60	29	MWS 3	1948	TSW 3.0	1496	MW ¹⁾	1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55																	
MBD 180/4/4	5934	1170/1290	1250/1380	49/51	0.20/0.31	0.60/0.90	0.90	520	100	60	29	RDS 1	1314	TSD 1.5 ⁴⁾	1501	M4 ²⁾	1571
MBD 180/2/2	5925	2410/2810	2450/2850	63/66	1.90/2.46	3.00/5.10	5.50	520	100	60	36	RDS 7	1578	TSD 7.0 ⁴⁾	1504	M4 ²⁾	1571
Explosion proof E Exe II, 400 V / 3 ph. / 50 Hz, temperature class T1-T3, protection to IP 54																	
MBD 180/4 Ex ³⁾	6004	1400	1420	51	0.37	1.14	—	470	40	—	29	not permitted	—	not permitted	—	—	—

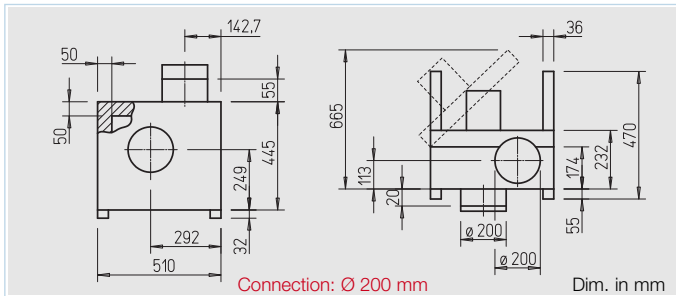
* Ex-Models: for nominal value of motor see information on page 18.

¹⁾ incl. operation switch

²⁾ incl. operation and speed switch

³⁾ Performance curve on request

⁴⁾ required full motor protection unit: model MD, Ref. No. 5849



- Casing**
See "general information", page 194.
- Impeller**
Forward curved high output centrifugal-impeller, made from galvanised sheet steel, mounted directly to the motor shaft. High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.
- Motor**
Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.
- Electrical connection**
Terminal box fitted externally on the motor as standard (IP 55).

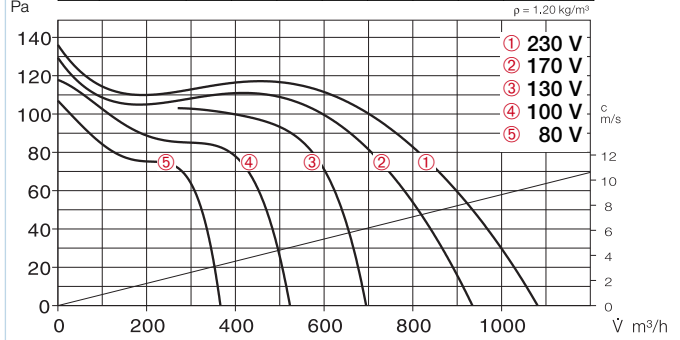
- Motor protection**
Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.

- Speed control**
All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.

- Accessories**
Wall bracket, from galv. steel
MB-WK 200 Ref. No. 5526
Rain repellent roof, from galv. sheet steel, mounting over the motor.
MB-WSD Ref. No. 1856

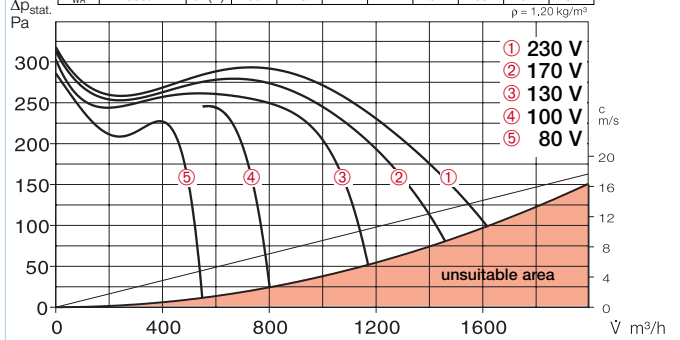
MBW 200/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	51	49	45	42	38	36	32	28
L _{WA} Intake	dB(A)	69	67	63	60	56	54	50	46
L _{WA} Exhaust	dB(A)	71	69	65	62	58	56	52	48



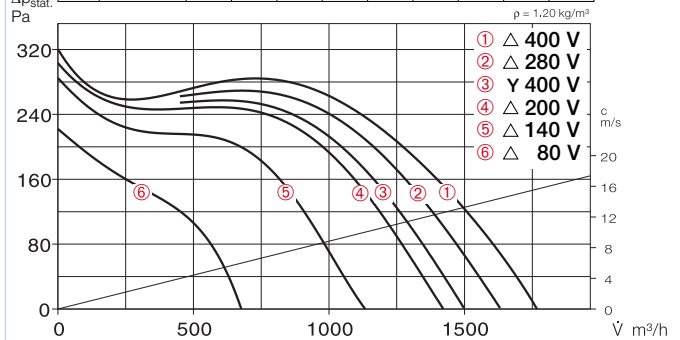
MBW 200/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	60	58	54	51	47	45	41	37
L _{WA} Intake	dB(A)	78	76	72	69	65	63	59	55
L _{WA} Exhaust	dB(A)	80	78	74	71	67	65	61	57



MBD 200/4/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	60	58	54	51	47	45	41	37
L _{WA} Intake	dB(A)	78	76	72	69	65	63	59	55
L _{WA} Exhaust	dB(A)	80	78	74	71	67	65	61	57

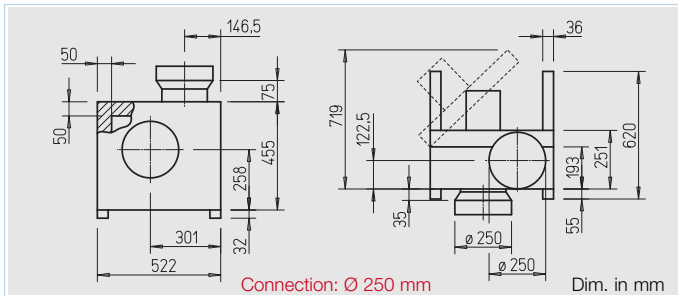


- Flexible connector** for installation between fan and ducting.
FM 200 Ref. No. 1670
FM 200 Ex Ref. No. 1686

- On/off switch for 2 speed Y/ Δ -motor 3 phase fans**
DS 2⁴⁾ Ref. No. 1351

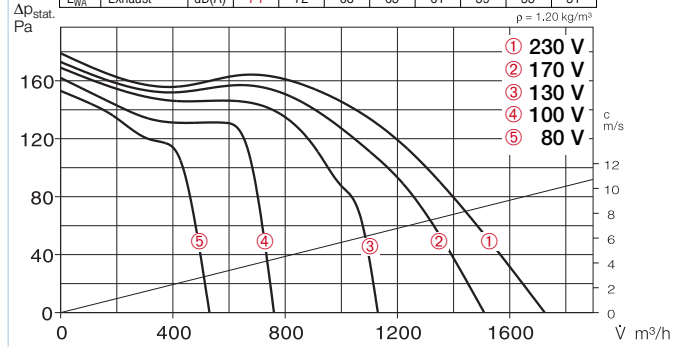
Type	Ref. No.	Air flow volume (FID)	R.P.M.	Sound press. level case breakout	Motor power (nominal)*	Current*		Wiring diagram	Maximum air flow temperature controlled		Nominal weight (net)	5 step transformer controller with motor protect. unit		Full motor protection unit			
						full load	speed controlled		full load	°C		°C	Type	Ref. No.	Type	Ref. No.	Type
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55																	
MBW 200/6	5935	1080	870	45	0.18	0.92	0.92	751	100	60	35	MWS 1.5	1947	TSW 1.5	1495	MW ¹⁾	1579
MBW 200/4	5936	1600	1380	54	0.54	2.40	2.80	751	100	60	35	MWS 5	1949	TSW 5.0	1497	MW ¹⁾	1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55																	
MBD 200/4/4	5938	1510/1770	1160/1360	51/54	0.34/0.55	0.65/1.70	1.70	520	100	60	38	RDS 2	1315	TSD 3.0 ⁴⁾	1502	M4 ²⁾	1571
Explosion proof E Exe II, 400 V / 3 ph. / 50 Hz, temperature class T1-T3, protection to IP 54																	
MBD 200/4 Ex ³⁾	6008	1840	1415	54	0.55	1.51	—	470	40	—	35	not permitted	—	not permitted	—	—	—

* Ex-Models: for nominal value of motor see information on page 18. ¹⁾ incl. operation switch ²⁾ incl. operation and speed switch ³⁾ Performance curve on request
⁴⁾ required full motor protection unit: model MD, Ref. No. 5849



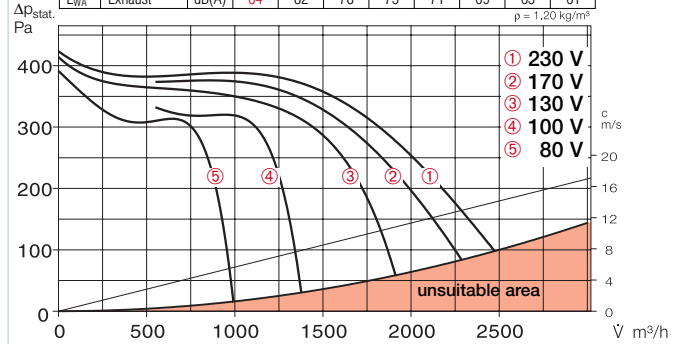
MBW 225/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	54	52	48	45	41	39	35	31
L _{WA} Intake	dB(A)	72	70	66	63	59	57	53	49
L _{WA} Exhaust	dB(A)	74	72	68	65	61	59	55	51



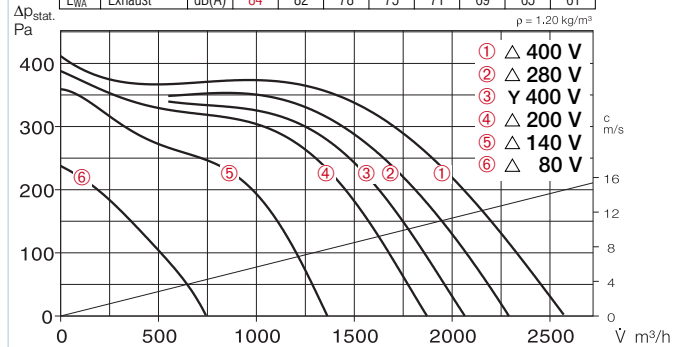
MBW 225/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	64	62	58	55	51	49	45	41
L _{WA} Intake	dB(A)	82	80	76	73	69	67	63	59
L _{WA} Exhaust	dB(A)	84	82	78	75	71	69	65	61



MBD 225/4/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	64	62	58	55	51	49	45	41
L _{WA} Intake	dB(A)	82	80	76	73	69	67	63	59
L _{WA} Exhaust	dB(A)	84	82	78	75	71	69	65	61



Casing

See "general information", page 194.

Impeller

Forward curved high output centrifugal-impeller, made from galvanised sheet steel, mounted directly to the motor shaft. High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.

Motor

Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.

Electrical connection

Terminal box fitted externally on the motor as standard (IP 55).

Motor protection

Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.

Speed control

All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.

Accessories

- Wall bracket**, from galv. steel
MB-WK 225 Ref. No. 5527
- Rain repellent roof**, from galv. sheet steel, mounting over the motor.
MB-WSD Ref. No. 1856

Flexible connector for installation between fan and ducting.

- FM 250** Ref. No. 1672
- FM 250 Ex** Ref. No. 1688

On/off switch for 2 speed Y/Δ-motor 3 phase fans

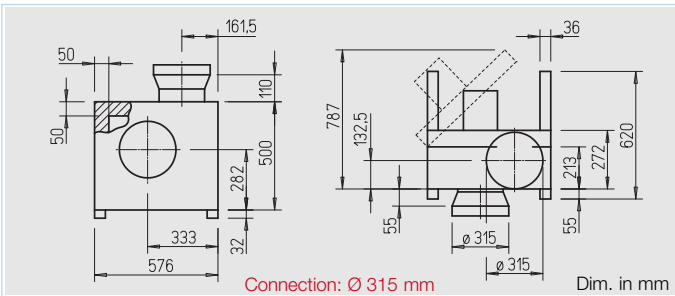
- DS 2⁴⁾** Ref. No. 1351

Type	Ref. No.	Air flow volume (FID)	R.P.M.	Sound press. level case breakout	Motor power (nominal)*	Current*		Wiring diagram	Maximum air flow temperature		Nominal weight (net)	5 step transformer controller with motor protect. unit		Full motor protection unit			
		V m³/h	min ⁻¹			dB(A) in 1 m	kW		A	A		No.	+°C	+°C	kg	Type	Ref. No.
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55																	
MBW 225/6	5926	1720	890	48	0.33	1.80	1.90	751	100	60	35	MWS 3	1948	TSW 3.0	1496	MW¹⁾	1579
MBW 225/4	5939	2470	1400	56	0.85	4.50	5.50	751	100	60	40	MWS 7.5	1950	TSW 7.5	1596	MW¹⁾	1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55																	
MBD 225/4/4	5940	2040/2570	1070/1350	51/56	0.59/0.88	0.95/1.80	1.80	520	100	60	38	RDS 2	1315	TSD 3.0⁴⁾	1502	M4²⁾	1571
Explosion proof E Exe II, 400 V / 3 ph. / 50 Hz, temperature class T1-T3, protection to IP 54																	
MBD 225/4 Ex³⁾	6011	2770	1390	56	0.75	2.00	—	470	40	—	40	not permitted	—	not permitted	—	—	—

* Ex-Models: for nominal value of motor see information on page 18.

¹⁾ incl. operation switch ²⁾ incl. operation and speed switch ³⁾ Performance curve on request

⁴⁾ required full motor protection unit: model MD, Ref. No. 5849

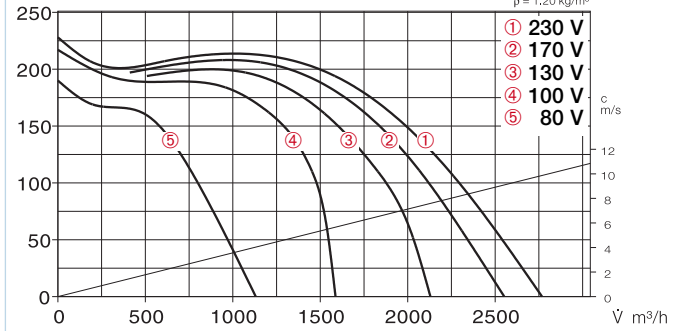


- Casing**
See "general information", page 194.
- Impeller**
Forward curved high output centrifugal-impeller, made from galvanised sheet steel, mounted directly to the motor shaft. High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.
- Motor**
Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.
- Electrical connection**
Terminal box fitted externally on the motor as standard (IP 55).

- Motor protection**
Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.
- Speed control**
All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.
- Accessories**
 - Wall bracket**, from galv. steel **MB-WK 250** Ref. No. 5527
 - Rain repellent roof**, from galv. sheet steel, mounting over the motor. **MB-WSD** Ref. No. 1856

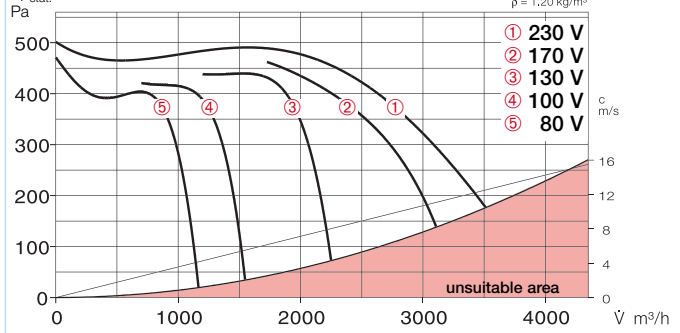
MBW 250/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	58	56	52	49	45	43	39	35
L _{WA} Intake	dB(A)	76	74	70	67	63	61	57	53
L _{WA} Exhaust	dB(A)	78	76	72	69	65	63	59	55



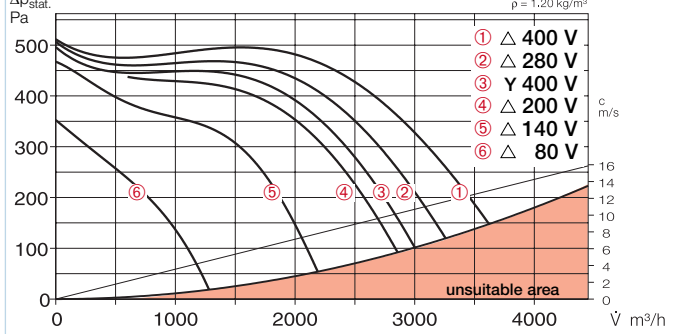
MBW 250/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	68	66	62	59	55	53	49	45
L _{WA} Intake	dB(A)	86	84	80	77	73	71	67	63
L _{WA} Exhaust	dB(A)	88	86	82	79	75	73	69	65



MBD 250/4/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	68	66	62	59	55	53	49	45
L _{WA} Intake	dB(A)	86	84	80	77	73	71	67	63
L _{WA} Exhaust	dB(A)	88	86	82	79	75	73	69	65

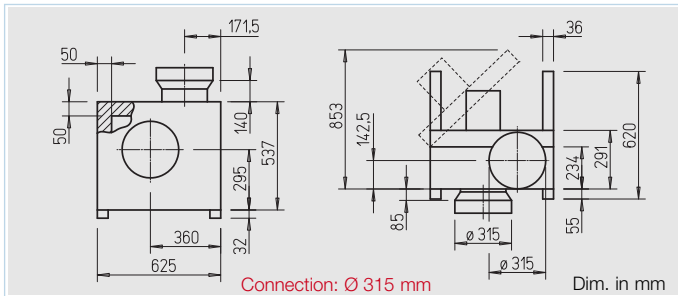


- Flexible connector** for installation between fan and ducting.
FM 315 Ref. No. 1674
FM 315 Ex Ref. No. 1690

- On/off switch for 2 speed Y/Δ-motor 3 phase fans DS 2⁴⁾** Ref. No. 1351

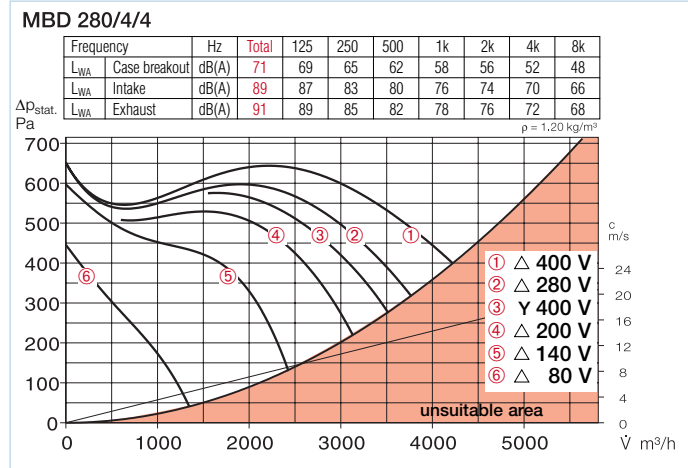
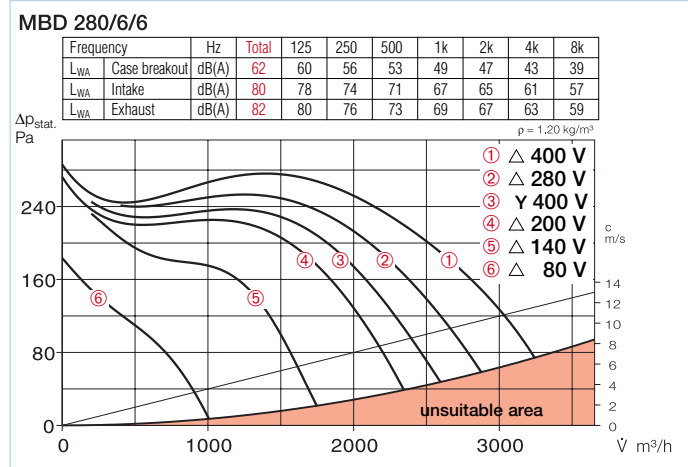
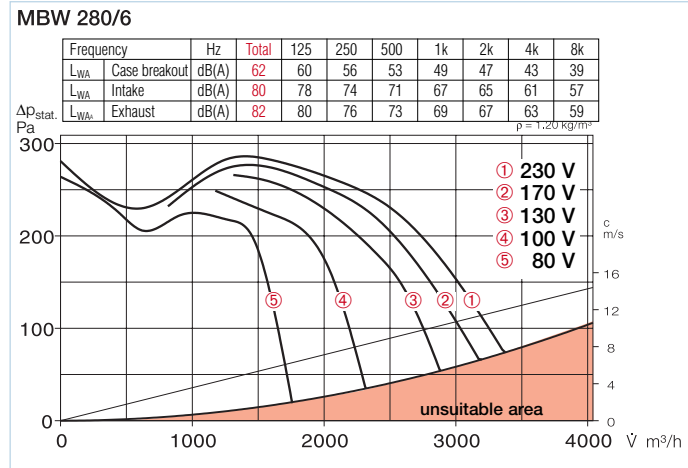
Type	Ref. No.	Air flow volume (FID)	R.P.M.	Sound press. level case breakout	Motor power (nominal)*	Current*		Wiring diagram	Maximum air flow temperature controlled		Nominal weight (net)	5 step transformer controller with motor protect. unit		Full motor protection unit			
		Vol m³/h	min ⁻¹			dB(A) in 1 m	kW		A	A		No.	+°C	+°C	kg	Type	Ref. No.
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55																	
MBW 250/6	5927	2770	915	52	0.76	3.90	3.90	751	100	60	48	MWS 5	1949	TSW 5.0	1497	MW ¹⁾	1579
MBW 250/4	5941	3500	1370	62	1.78	8.20	8.20	751	100	60	52	MWS 10	1946	TSW 10	1498	MW ¹⁾	1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55																	
MBD 250/4/4	5942	2740/3620	1030/1360	56/62	1.10/1.50	2.00/3.20	3.20	520	100	60	51	RDS 4	1316	TSD 5.5 ⁴⁾	1503	M4 ²⁾	1571
Explosion proof E Exe II, 400 V / 3 ph. / 50 Hz, temperature class T1-T3, protection to IP 54																	
MBD 250/4 Ex ³⁾	6014	4140	1405	62	1.50	3.35	—	470	40	—	52	not permitted	—	not permitted	—	—	—

* Ex-Models: for nominal value of motor see information on page 18. ¹⁾ incl. operation switch ²⁾ incl. operation and speed switch ³⁾ Performance curve on request ⁴⁾ required full motor protection unit: model MD, Ref. No. 5849



- Casing**
See "general information", page 194.
- Impeller**
Forward curved high output centrifugal-impeller, made from galvanised sheet steel, mounted directly to the motor shaft. High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.
- Motor**
Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.
- Electrical connection**
Terminal box fitted externally on the motor as standard (IP 55).

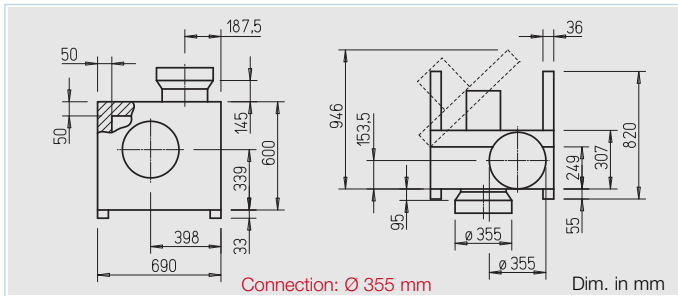
- Motor protection**
Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.
- Speed control**
All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.
- Accessories**
 - Wall bracket**, from galv. steel **MB-WK 280** Ref. No. 5527
 - Rain repellent roof**, from galv. sheet steel, mounting over the motor. **MB-WSD** Ref. No. 1856



- Flexible connector** for installation between fan and ducting. **FM 315** Ref. No. 1674
- FM 315 Ex** Ref. No. 1690
- On/off switch for 2 speed Y/Δ-motor 3 phase fans DS 2⁴⁾** Ref. No. 1351

Type	Ref. No.	Air flow volume (FID)	Nenn-drehzahl	Sound press. level case breakout	Motor power (nominal)*	Current* full load	Current* speed controlled	Wiring diagram	Maximum air flow temperature full load	Nominal weight (net)	5 step transformer controller with motor protect. unit	5 step transformer controller without motor protect. unit	Full motor protection unit			
		Ṁ m³/h	min ⁻¹	dB(A) in 1 m	kW	A	A	No.	+°C	+°C	Type	Ref. No.	Type	Ref. No.	Type	Ref. No.
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55																
MBW 280/6	5928	3370	920	56	1.25	6.80	6.80	751	100	60	60	MWS 7.5 1950	TSW 7.5 1596	MW¹⁾		1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55																
MBD 280/6/6	5943	2590/3250	695/870	51/56	0.53/0.89	1.00/2.00	2.00	520	100	60	60	RDS 4 1316	TSD 3.0⁴⁾ 1502	M4²⁾		1571
MBD 280/4/4	5944	3650/4270	1170/1370	62/65	1.60/2.10	2.50/4.00	4.00	520	100	60	68	RDS 7 1578	TSD 5.5⁴⁾ 1503	M4²⁾		1571
Explosion proof E Exe II, 400 V / 3 ph. / 50 Hz, temperature class T1-T3, protection to IP 54																
MBD 280/6 Ex³⁾	6016	2960	925	56	0.95	2.70	—	498	40	—	60	not permitted	not permitted	—		—
MBD 280/4 Ex³⁾	6017	4960	1420	65	2.00	4.65	—	498	40	—	68	not permitted	not permitted	—		—

* Ex-Models: for nominal value of motor see information on page 18. ¹⁾ incl. operation switch ²⁾ incl. operation and speed switch ³⁾ Performance curve on request ⁴⁾ required full motor protection unit: model MD, Ref. No. 5849



Casing

See "general information", page 194.

Impeller

Backward curved high output centrifugal-impeller, made from aluminium, mounted directly to the motor shaft. High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.

Motor

Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.

Electrical connection

Terminal box fitted externally on the motor as standard (IP 55).

Motor protection

Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.

Speed control

All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.

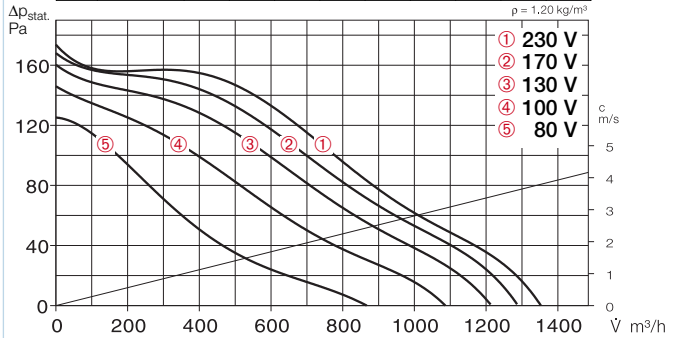
Accessories

Wall bracket, from galv. steel
MB-WK 315 Ref. No. 5528

Rain repellent roof, from galv. sheet steel, mounting over the motor.
MB-WSD Ref. No. 1856

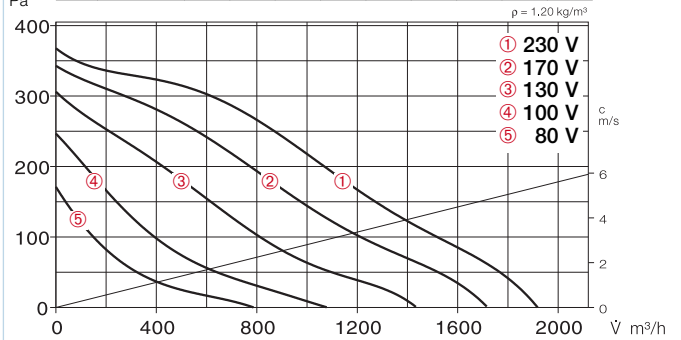
MBW 315/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	40	33	30	34	35	33	28	21
L _{WA} Intake	dB(A)	58	51	48	52	53	51	46	39
L _{WA} Exhaust	dB(A)	60	53	50	54	55	53	48	41



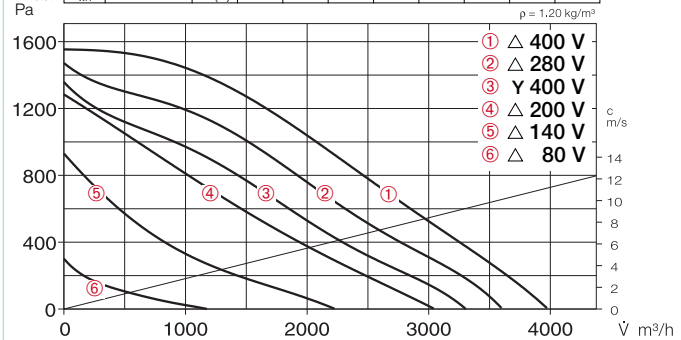
MBW 315/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	52	37	48	44	45	44	40	33
L _{WA} Intake	dB(A)	70	55	66	62	63	62	58	51
L _{WA} Exhaust	dB(A)	72	57	68	64	65	64	60	53



MBD 315/2/2

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	70	44	60	68	61	61	59	52
L _{WA} Intake	dB(A)	88	62	78	86	80	79	77	70
L _{WA} Exhaust	dB(A)	90	64	80	88	82	81	79	72



Flexible Connector

FM 355 Ref. No. 1675

On/off switch for 2 speed

Y/Δ-motor 3 phase fans

DS 2⁴⁾ Ref. No. 1351

Information

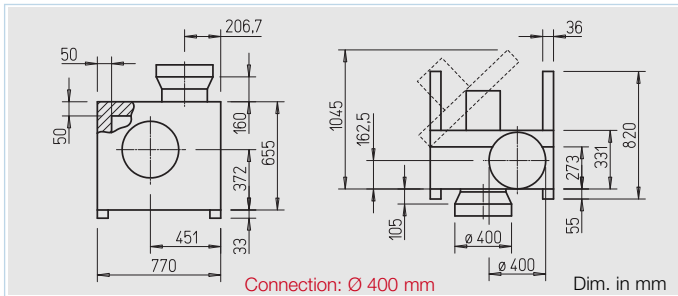
Technical description, selection chart 194

Other accessories

Speed controller and full motor protection unit 397 on

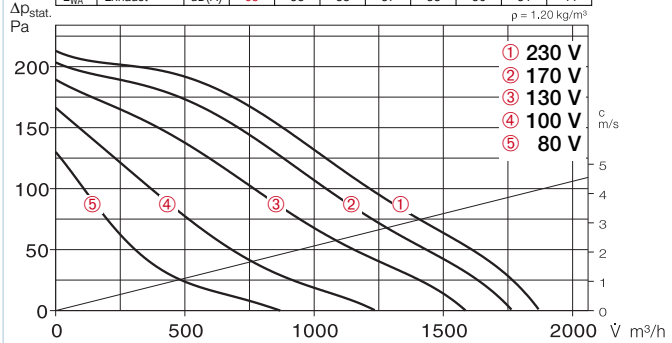
Type	Ref. No.	Air flow volume (FID)	R.P.M.	Sound press. level case breakout	Motor power (nominal)	Current full load	Current speed controlled	Wiring diagram	Maximum air flow temperature full load	Nominal weight (net)	5 step transformer controller with motor protect. unit	5 step transformer controller without motor protect. unit	Full motor protection unit
		Vol m ³ /h	min ⁻¹	dB(A) in 1 m	kW	A	A	No.	+°C	kg	Type Ref. No.	Type Ref. No.	Type Ref. No.
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55													
MBW 315/6	5950	1350	940	34	0.14	0.80	0.80	751	100	60	MWS 1.5 1947	TSW 1.5 1495	MW ¹⁾ 1579
MBW 315/4	5929	1920	1420	46	0.25	1.50	1.50	751	100	60	MWS 3 1948	TSW 3.0 1496	MW ¹⁾ 1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55													
MBD 315/4/4 ³⁾	5945	1880/2050	1305/1425	44/46	0.15/0.22	0.34/0.90	0.90	520	100	60	RDS 2 1315	TSD 1.5 ⁴⁾ 1501	M4 ²⁾ 1571
MBD 315/2/2	5946	3300/3980	2270/2780	60/64	0.86/1.16	1.40/2.20	2.40	520	100	60	RDS 4 1316	TSD 3.0 ⁴⁾ 1502	M4 ²⁾ 1571

¹⁾ incl. operation switch ²⁾ incl. operation and speed switch ³⁾ Performance curve on request ⁴⁾ required full motor protection unit: model MD, Ref. No. 5849



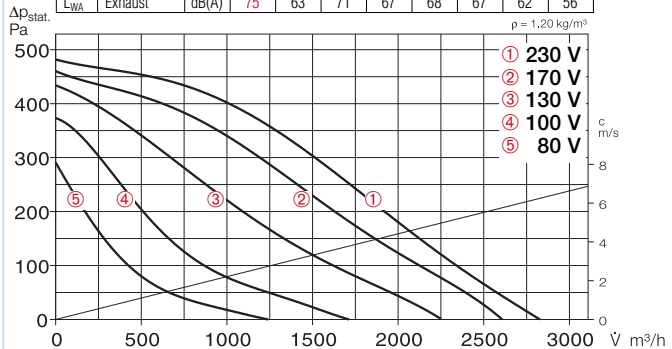
MBW 355/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	43	35	33	37	38	36	31	34
L _{WA} Intake	dB(A)	61	53	51	55	56	54	49	42
L _{WA} Exhaust	dB(A)	63	55	53	57	58	56	51	44



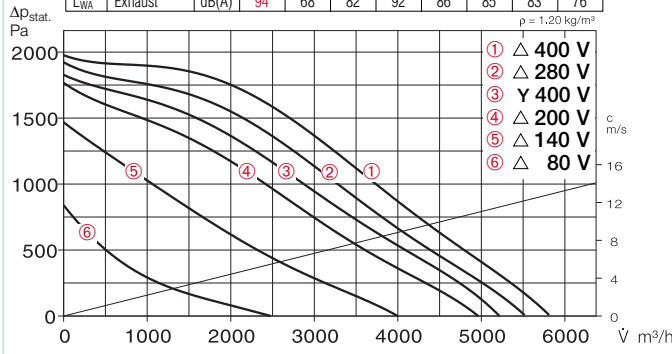
MBW 355/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	55	43	47	48	47	42	36	36
L _{WA} Intake	dB(A)	73	61	69	65	66	65	60	54
L _{WA} Exhaust	dB(A)	75	63	71	67	68	67	62	56



MBD 355/2/2

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	74	46	62	72	66	65	63	56
L _{WA} Intake	dB(A)	92	66	80	90	84	83	81	74
L _{WA} Exhaust	dB(A)	94	68	82	92	86	85	83	76



Casing

See "general information", page 194.

Impeller

Backward curved high output centrifugal-impeller, made from aluminium, mounted directly to the motor shaft. High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.

Motor

Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.

Electrical connection

Terminal box fitted externally on the motor as standard (IP 55).

Motor protection

Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.

Speed control

All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.

Accessories

Wall bracket, from galv. steel
MB-WK 355 Ref. No. 5528

Rain repellent roof, from galv. sheet steel, mounting over the motor.
MB-WSD Ref. No. 1856

Flexible connector

FM 400 Ref. No. 1676

On/off switch for 2 speed

Y/Δ-motor 3 phase fans

DS 2⁴⁾ Ref. No. 1351

Information **Pages**

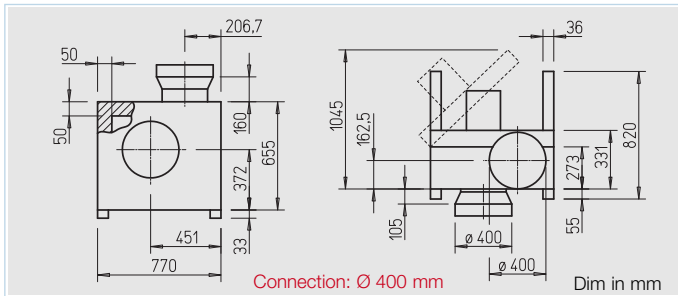
Technical description, selection chart 194

Other accessories **Pages**

Speed controller and full motor protection unit 394 on

Type	Ref. No.	Air flow volume (FID)	R.P.M.	Sound press. level case breakout	Motor power (nominal)	Current full load	Current speed controlled	Wiring diagram	Maximum air flow temperature full load controlled	Nominal weight (net)	5 step transformer controller with motor protect. unit	5 step transformer controller without motor protect. unit	Full motor protection unit				
		m³/h	min ⁻¹	dB(A) in 1 m	kW	A	A	No.	+°C	+°C	Type	Ref. No.	Type	Ref. No.	Type	Ref. No.	
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55																	
MBW 355/6	5952	1880	910	37	0.16	0.84	0.84	751	100	60	79	MWS 1.5	1947	TSW 1.5	1495	MW ¹⁾	1579
MBW 355/4	5951	2830	1370	49	0.33	1.75	1.75	751	100	60	81	MWS 3	1948	TSW 3.0	1496	MW ¹⁾	1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55																	
MBD 355/4/4 ³⁾	5947	2430/2820	1175/1370	46/49	0.20/0.32	0.40/0.95	0.95	520	100	60	81	RDS 2	1315	TSD 1.5 ⁴⁾	1501	M4 ²⁾	1571
MBD 355/2/2	5948	5210/5800	2510/2840	65/68	1.65/2.20	2.90/5.00	5.50	520	100	60	100	RDS 7	1578	TSD 7.0 ⁴⁾	1504	M4 ²⁾	1571

¹⁾ incl. operation switch ²⁾ incl. operation and speed switch ³⁾ Performance curve on request ⁴⁾ required full motor protection unit: model MD, Ref. No. 5849



- Casing**
See "general information", page 194.
- Impeller**
Backward curved high output centrifugal-impeller, made from aluminium, mounted directly to the motor shaft.
High efficiency, low noise level, aerodynamically optimised scroll. Dynamically balanced to DIN ISO 1940 Pt. 1 – class G 6.3.
- Motor**
Maintenance free, speed controllable IEC-flange motor, out of the air stream, protected to IP 55. With ball bearings and radio suppression.
- Electrical connection**
Terminal box fitted externally on the motor as standard (IP 55).

- Motor protection**
Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.

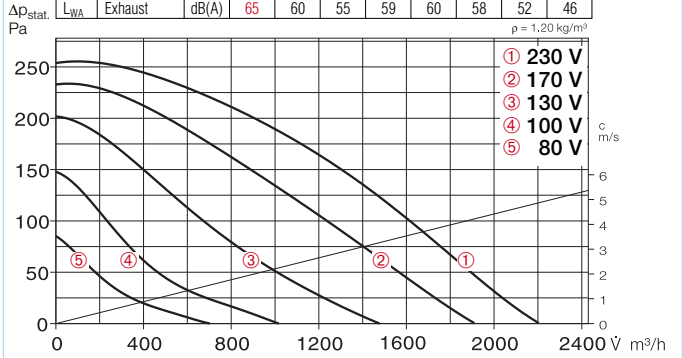
- Speed control**
All models are speed controllable through transformer controllers (accessory). The 3 phase models can be 2 speed controlled by star/delta switch or full motor protection unit M4. The sound power levels are shown with the performance curves.

Accessories

- Wall bracket**, from galv. steel
MB-WK 400 Ref. No. 5528
- Rain repellent roof**, from galv. sheet steel, mounting over the motor.
MB-WSD Ref. No. 1856

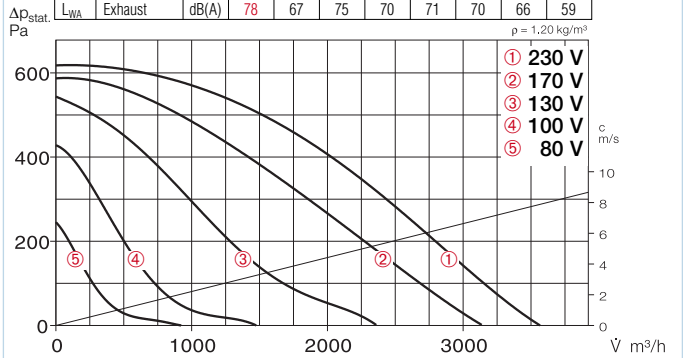
MBW 400/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	45	40	35	39	40	38	32	26
L _{WA} Intake	dB(A)	63	58	53	57	58	56	50	44
L _{WA} Exhaust	dB(A)	65	60	55	59	60	58	52	46



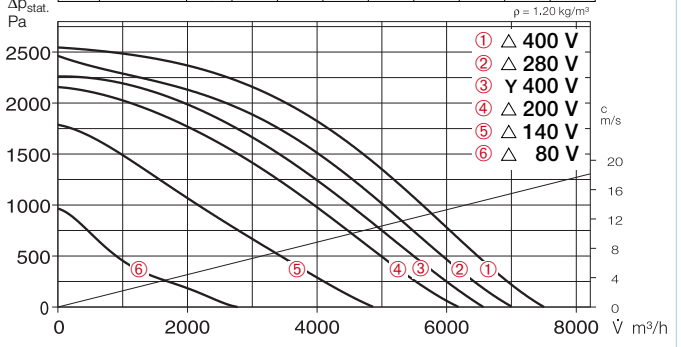
MBW 400/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	58	47	55	50	51	50	46	39
L _{WA} Intake	dB(A)	76	65	73	68	69	68	64	57
L _{WA} Exhaust	dB(A)	78	67	75	70	71	70	66	59



MBD 400/2/2

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout	dB(A)	80	55	69	79	70	70	67	61
L _{WA} Intake	dB(A)	98	73	87	97	88	88	85	79
L _{WA} Exhaust	dB(A)	100	75	89	99	90	90	87	81



Flexible connector

FM 400 Ref. No. 1676

On/off switch for 2 speed

Y/Δ-motor 3 phase fans

DS 2 ⁴⁾ Ref. No. 1351

Information Pages

Technical description, selection chart 194

Other accessories Pages

Speed controller and full motor protection unit 397 on

Type	Ref. No.	Air flow volume (FID)	R.P.M.	Sound press. level case breakout	Motor power (nominal)	Current full load	Current speed controlled	Wiring diagram	Maximum air flow temperature full load	Nominal weight (net)	5 step transformer controller with motor protect. unit	5 step transformer controller without motor protect. unit	Full motor protection unit	
		Vol m³/h	min ⁻¹	dB(A) in 1 m	kW	A	A	No.	+°C	+°C	kg	Type Ref. No.	Type Ref. No.	Type Ref. No.
1 Phase motor, 230 V / 1 ph. / 50 Hz, protection to IP 55														
MBW 400/6	5954	2210	850	39	0.19	0.95	0.95	751	100	60	82	MWS 1.5 1947	TSW 1.5 1495	MW ¹⁾ 1579
MBW 400/4	5953	3570	1360	52	0.50	2.30	3.00	751	100	60	85	MWS 5 1949	TSW 5.0 1497	MW ¹⁾ 1579
2 speed motor, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55														
MBD 400/4/4 ³⁾	5955	3000/3520	1160/1370	48/52	0.30/0.52	0.61/1.74	1.74	520	100	60	82	RDS 2 1315	TSD 3.0 ⁴⁾ 1502	M4 ²⁾ 1571
MBD 400/2/2	5949	6570/7500	2510/2840	71/74	3.07/3.75	4.80/6.10	9.00	520	100	60	110	RDS 11 1332	TSD 11 ⁴⁾ 1513	M4 ²⁾ 1571

¹⁾ incl. operation switch ²⁾ incl. operation and speed switch ³⁾ Performance curve on request ⁴⁾ required full motor protection unit: model MD, Ref. No. 5849