



Centrifugal Blowers

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MB Series	C-72
MBD Series	C-84

Types of Centrifugal Blowers

Impeller Diameter in.dia.	Model						Page		
	Single-Phase		Single-Phase		Three-Phase		DC 24V	AC	DC
	100V	115V	200V	230V	200V	230V			
6.30	MB1665-B		MB1665-D		MB1665-T			C-72	
4.72	MB1255-B		MB1255-D				MBD12-24	C-74	C-84
3.94	MB1040-B		MB1040-D				MBD10-24	C-76	C-85
3.15	MB840-B		MB840-D				MBD8-24	C-78	C-86
2.36	MB630-B		MB630-D					C-80	
1.97	MB520-B		MB520-D					C-82	

■ Product Number Code

MB 12 55 - B

Voltage

B: Single-Phase 100V/115V
D: Single-Phase 200V/220V/230V
T: Three-Phase 200V/220V/230V
24: DC 24V

Thickness of impeller

65: 2.56 in. (65 mm)
55: 2.17 in. (55 mm)
40: 1.57 in. (40 mm)
30: 1.18 in. (30 mm)
20: .79 in. (20 mm)

Impeller Diameter

5: 1.97 in. dia. (φ 50 mm)
6: 2.36 in. dia. (φ 60 mm)
8: 3.15 in. dia. (φ 80 mm)
10: 3.94 in. dia. (φ 100 mm)
12: 4.72 in. dia. (φ 120 mm)
16: 6.30 in. dia. (φ 160 mm)

Series

MB : AC Centrifugal Blowers
MBD : DC Centrifugal Blowers

■ General Specifications

Item	Specifications
Insulation Resistance	100MΩ or more when 500V DC is applied between the windings and the frame under normal ambient temperature and humidity. (MBD Series: 10MΩ or more, 250V DC)
Dielectric Strength	Sufficient to withstand 1.5kV at 50Hz applied between the windings and the frame for 1 minute under normal ambient temperature and humidity. (MBD Series: 500V at 50Hz, 1 minute)
Temperature Rise	81°F (45°C) or less, measured by the thermometer method after the temperature of the coil has stabilized under normal operation at the rated voltage and frequency. (MBD Series: 27°F (15°C) or less)
Operating Voltage Range	AC Centrifugal Blowers: ±10% DC Centrifugal Blowers: ±10% of the rated voltage
Insulation Class	Class E (248°F [120°C]) [Recognized as Class A (221°F [105°C]) by UL and CSA standards.]
Overheat Protection	MB1665, MB1255, MB1040, MB840 types have built-in thermal protectors (Automatic return type) Operating temperature. Open: 248°F±9°F (120°C±5°C) Close: 170.6°F±27°F (77°C±15°C) MB630, MB520 types have impedance protection MBD Series has an overheat protection function installed.
Ambient Temperature	14°F~122°F (-10°C~+50°C) [MB520, MB630, MBD Series: 14°F~140°F (-10°C~+60°C)]
Ambient Humidity	0~85% (noncondensing)
Color	Dark gray

■ Safety Standards and CE Marking

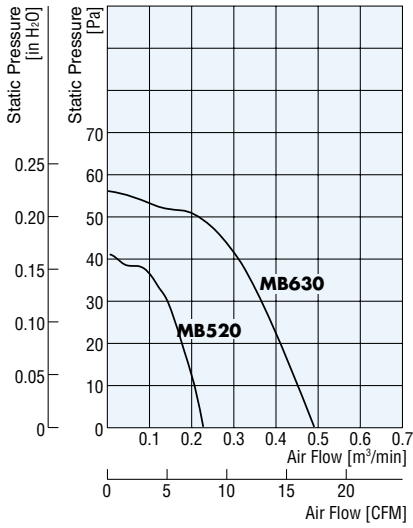
Model	Standards	Certification Body	Standards File No.	CE Marking
MB series	UL507	UL	E58377	Low Voltage Directives
	CAN/CSA-C22.2 No.113			
	EN60950	VDE	6755ÜG	
		DEMKO	124017A/DK 98-00981	

- For installation conditions for EN/IEC standards, see Page D-2.
- The file No. depends on the type of products. See details on page D-10.

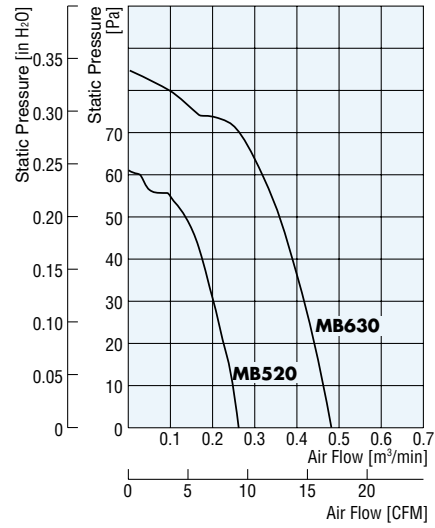
Comparisons of Characteristics

AC Centrifugal Blowers

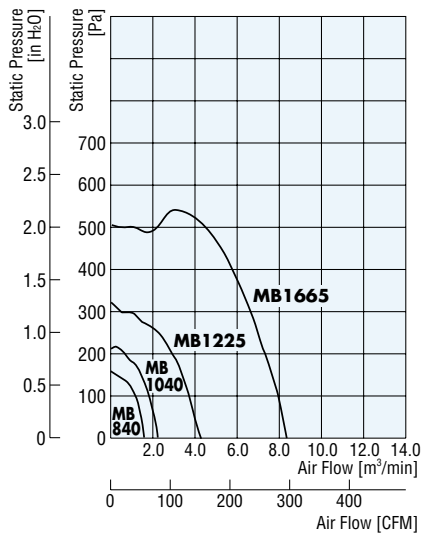
50Hz



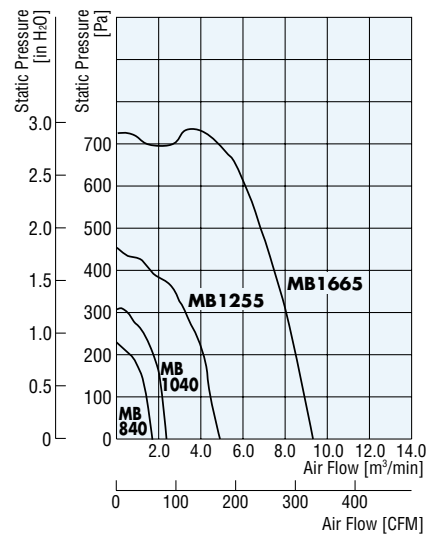
60Hz



50Hz



60Hz



DC Centrifugal Blowers

