

Cooling Fans

# Centrifugal Blowers

Overview

Axial  
Flow  
FansAC Input  
Low-Power  
Consumption  
**EMU**AC Input  
Compact Size  
**MU**AC Input  
Large Size,  
Large Air Flow  
**MRS**AC Input  
Long-Life  
**MRE**DC Input  
**MDS**  
**MD**DC Input  
Alarm  
**MDA**DC Input  
Variable Flow  
**MDV**DC Input  
Long-Life  
**MDE**DC Input  
Splash proof  
**MDP**Centrifugal  
BlowersAC Input **MB Series**  
DC Input **MBD Series**AC Input  
**MB**  
DC Input  
**MBD**Cross  
Flow  
FansAC Input  
**MF**  
DC Input  
**MFD**Enclosure  
Fan Modules

Thermostat

# Centrifugal Blowers

**UL** **VDE** **CE** (for **MB** Series except **MB1665**) [**UL** **VDE** (Only for **MB1665**)]

● For detailed information about regulations and standards, please see the Oriental Motor website.



Centrifugal blowers provide directional air flow by maximizing static pressure, making them optimal for spot cooling and for air flow through a duct. Alternatively, their high suction can be used to hold an object in position or their directed air flow can be used to move objects.



See Full Product Details Online  
[www.orientalmotor.com](http://www.orientalmotor.com)

- Manual
- Specifications
- Dimensions
- CAD
- Characteristics
- Connection and Operation

## Features

Since the exhaust outlet is reduced to focus air to a specified direction, these blowers are used for spot cooling. The static pressure is also high, which makes them a suitable choice when cooling equipment through which air cannot flow easily or when blowing air using a duct.

## Types of Centrifugal Blowers

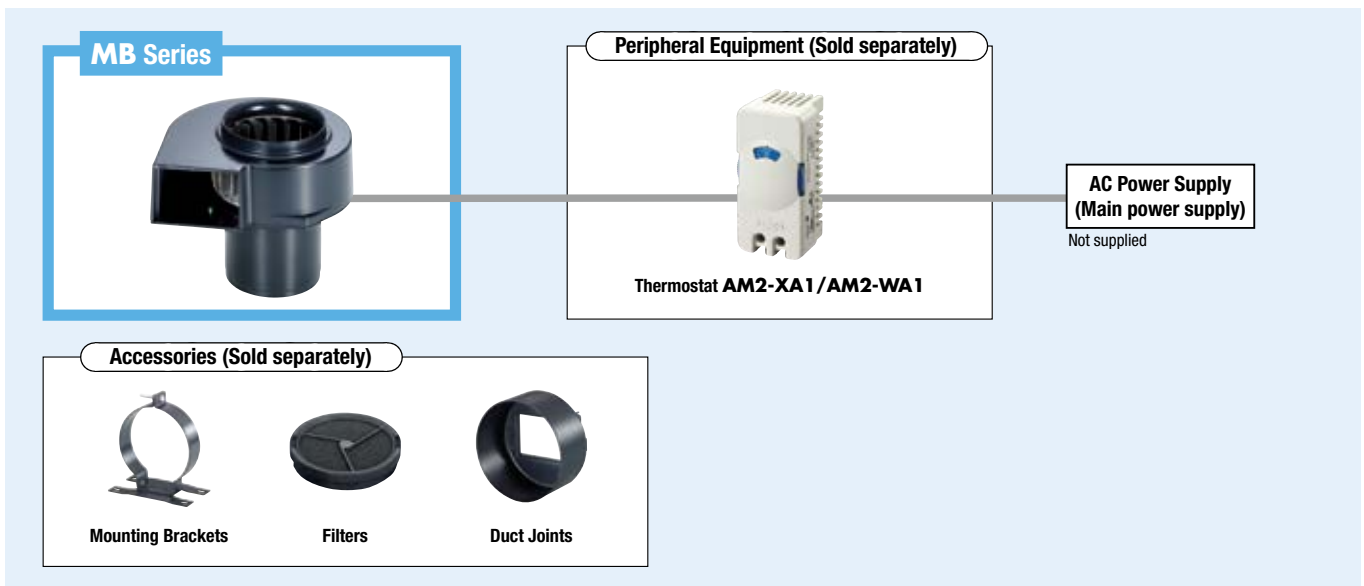
●: Standard Type ■: Alarm Type

Series	Features	Power Supply Voltage	Impeller Diameter [mm (in.)]					
			φ160 (φ6.30)	φ120 (φ4.72)	φ100 (φ3.94)	φ80 (φ3.15)	φ60 (φ2.36)	φ50 (φ1.97)
AC Centrifugal Blower <b>MB</b> Series	<ul style="list-style-type: none"> <li>● AC input centrifugal blowers</li> <li>● The <b>MB</b> Series is recognized by UL/CSA Standards and conforms to EN Standards. CE Marking is used in accordance with the Low Voltage Directive. (Certification status differs according to the product.)</li> </ul>	Three-Phase 220/230 VAC	●*	●		●		
		Single-Phase 110/115 VAC	●	●	●	●	●	●
		Single-Phase 220/230 VAC	●	●	●	●	●	●
DC Centrifugal Blower <b>MBD</b> Series	● DC input centrifugal blowers	24 VDC		●■	●■	●■		
		48 VDC			●	●		

\* A three-phase 220 VAC version is not available.

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## System Configuration



## Product Number

### ● MB, MBD Series

# MB 12 55 - B

①      ②      ③      ④

①	Series	<b>MB</b> : AC Centrifugal Blowers <b>MB</b> Series <b>MBD</b> : DC Centrifugal Blowers <b>MBD</b> Series
②	Impeller Diameter	<b>5</b> : $\phi$ 50 mm ( $\phi$ 1.97 in.), <b>6</b> : $\phi$ 60 mm ( $\phi$ 2.36 in.), <b>8</b> : $\phi$ 80 mm ( $\phi$ 3.15 in.) <b>10</b> : $\phi$ 100 mm ( $\phi$ 3.94 in.), <b>12</b> : $\phi$ 120 mm ( $\phi$ 4.72 in.), <b>16</b> : $\phi$ 160 mm ( $\phi$ 6.30 in.)
③	Impeller Thickness	<b>20</b> : 20 mm (0.79 in.), <b>30</b> : 30 mm (1.18 in.), <b>40</b> : 40 mm (1.57 in.) <b>55</b> : 55 mm (2.17 in.), <b>65</b> : 65 mm (2.56 in.)
④	Power Supply Voltage	<b>T</b> : Three-phase 220/230 VAC <b>B</b> : Single-phase 110/115 VAC <b>D</b> : Single-phase 220/230 VAC <b>24</b> : 24 VDC, <b>24A</b> : 24 VDC Low-Speed Alarm, Contact Alarm Type <b>48</b> : 48 VDC

### ● Fan Kit

# T- MB1255-D - GA

①      ②      ③

①	Fan Kit Order Code
②	Fan Product Name
③	<b>A</b> : With mounting bracket and installation screws <b>GA</b> : With finger guard, mounting bracket and installation screws <b>FA</b> : With filter, mounting bracket and installation screws

Overview

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Long-Life  
**MDE**DC Input  
Splash proof  
**MDP**Centrifugal  
BlowersAC Input  
**MB**  
DC Input  
**MBD**Cross  
Flow  
FansAC Input  
**MF**  
DC Input  
**MFD**Enclosure  
Fan Modules

Thermostat

## Product line

### ● MB Series

Impeller Diameter	Power Supply Voltage VAC	Fan Only		Fan Kit	
		Product Name	List Price	Product Name	List Price
$\phi$ 50 mm ( $\phi$ 1.97 in.)	Single-Phase 110/115	<b>MB520-B</b>	\$45.00	<b>T-MB520-B-A</b>	\$50.00
	Single-Phase 220/230	<b>MB520-D</b>	\$47.00	<b>T-MB520-D-A</b>	\$52.00
$\phi$ 60 mm ( $\phi$ 2.36 in.)	Single-Phase 110/115	<b>MB630-B</b>	\$47.00	<b>T-MB630-B-A</b>	\$52.00
	Single-Phase 220/230	<b>MB630-D</b>	\$49.00	<b>T-MB630-D-A</b>	\$54.00
$\phi$ 80 mm ( $\phi$ 3.15 in.)	Three-Phase 220/230	<b>MB840-T</b>	\$76.00	<b>T-MB840-T-GA</b>	\$90.00
				<b>T-MB840-T-FA</b>	\$98.00
	Single-Phase 110/115	<b>MB840-B</b>	\$73.00	<b>T-MB840-B-GA</b>	\$87.00
				<b>T-MB840-B-FA</b>	\$95.00
	Single-Phase 220/230	<b>MB840-D</b>	\$76.00	<b>T-MB840-D-GA</b>	\$90.00
				<b>T-MB840-D-FA</b>	\$98.00
$\phi$ 100 mm ( $\phi$ 3.94 in.)	Single-Phase 110/115	<b>MB1040-B</b>	\$88.00	<b>T-MB1040-B-GA</b>	\$102.00
				<b>T-MB1040-B-FA</b>	\$111.00
	Single-Phase 220/230	<b>MB1040-D</b>	\$91.00	<b>T-MB1040-D-GA</b>	\$105.00
$\phi$ 120 mm ( $\phi$ 4.72 in.)	Three-Phase 220/230	<b>MB1255-T</b>	\$168.00	<b>T-MB1255-T-GA</b>	\$187.00
				<b>T-MB1255-T-FA</b>	\$197.00
	Single-Phase 110/115	<b>MB1255-B</b>	\$160.00	<b>T-MB1255-B-GA</b>	\$179.00
				<b>T-MB1255-B-FA</b>	\$189.00
	Single-Phase 220/230	<b>MB1255-D</b>	\$168.00	<b>T-MB1255-D-GA</b>	\$187.00
				<b>T-MB1255-D-FA</b>	\$197.00
$\phi$ 160 mm ( $\phi$ 6.30 in.)	Three-Phase 230	<b>MB1665-T</b>	\$355.00	<b>T-MB1665-T-A</b>	\$375.00
	Single-Phase 110/115	<b>MB1665-B</b>	\$344.00	<b>T-MB1665-B-A</b>	\$364.00
	Single-Phase 220/230	<b>MB1665-D</b>	\$355.00	<b>T-MB1665-D-A</b>	\$375.00

**Product line**

● **MBD Series**

◇ **No Additional Function**

Impeller Diameter	Power Supply Voltage VDC	Fan Only		Fan Kit	
		Product Name	List Price	Product Name	List Price
φ80 mm (φ3.15 in.)	24	<b>MBD8-24</b>	\$91.00	<b>T-MBD8-24-GA</b>	\$105.00
				<b>T-MBD8-24-FA</b>	\$113.00
	48	<b>MBD8-48</b>	\$96.00	<b>T-MBD8-48-GA</b>	\$110.00
				<b>T-MBD8-48-FA</b>	\$118.00
φ100 mm (φ3.94 in.)	24	<b>MBD10-24</b>	\$102.00	<b>T-MBD10-24-GA</b>	\$116.00
				<b>T-MBD10-24-FA</b>	\$125.00
	48	<b>MBD10-48</b>	\$107.00	<b>T-MBD10-48-GA</b>	\$121.00
				<b>T-MBD10-48-FA</b>	\$130.00
φ120 mm (φ4.72 in.)	24	<b>MBD12-24</b>	\$140.00	<b>T-MBD12-24-GA</b>	\$155.00
				<b>T-MBD12-24-FA</b>	\$165.00

◇ **Low-Speed Alarm Type**

Impeller Diameter	Power Supply Voltage VDC	Fan Only		Fan Kit	
		Product Name	List Price	Product Name	List Price
φ80 mm (φ3.15 in.)	24	<b>MBD8-24A</b>	\$144.00	<b>T-MBD8-24A-GA</b>	\$158.00
				<b>T-MBD8-24A-FA</b>	\$166.00
φ100 mm (φ3.94 in.)		<b>MBD10-24A</b>	\$155.00	<b>T-MBD10-24A-GA</b>	\$169.00
				<b>T-MBD10-24A-FA</b>	\$178.00
φ120 mm (φ4.72 in.)		<b>MBD12-24A</b>	\$193.00	<b>T-MBD12-24A-GA</b>	\$208.00
				<b>T-MBD12-24A-FA</b>	\$218.00

For details (specifications, characteristics, dimensions and more) on these products, please either refer to our website or contact technical support or your nearest Oriental Motor sales office.

[www.orientalmotor.com](http://www.orientalmotor.com)

