Cooling Fans

Enclosure Fan Modules

Overview

Axial Flow Fans

AC Input Low-Power Consumption EMU

AC Input Compact Size

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 Blowers

AC Input MB DC Input

Cross Flow Fans

AC Input MF DC Input MFD

Enclosure Fan Modules

Enclosure Fan Modules

Enclosure Fan Modules



These enclosure fan modules combine an axial flow fan with peripheral equipment, such as finger guard, filter media, frame and mounting hardware.



See Full Product Details Online www.orientalmotor.com

- Manual
- Specifications
- Dimensions

- CAD
- Characteristics
- Connection and Operation

What is an Enclosure Fan?

An Enclosure Fan is a combination package consisting of an axial flow fan and peripheral equipment (cover, filter media, frame and finger guard). It is suitable for cooling a control box or other enclosure.



For finger guard IP2X type with filter, the product is delivered fully assembled.

Lineup

Module			Module Dimension	ns W×H [mm (in.)]		
(Color) List Price	129×134 (5.08×5.28)	157×170 (6.18×6.69)	161×158 (6.34×6.22)	180×180 (7.09×7.09)	209×226 (8.23×8.90)	284×284 (11.2×11.2)
Finger Guard IP2X Type (Light Gray) \$50.00~			AC DC □119 mm (4.69 in.) Fan Max. Air Flow: 2.7 m³/min (95.3 CFM)			
Slit Metal Plate IP4X Type (Light Beige) \$94.00~				AC DC 119 mm (4.69 in.) Fan Max. Air Flow: 1.1 m ³ /min (38.8 CFM)		AC ☐180 mm (7.09 in.) Fan Max. Air Flow: 8.3 m ³ /min (293 CFM)
Dust and Water Resistant IP43 Type IP55 Type (Light Gray) \$84.00~	□92 mm (3.62 in.) Fan Max. Air Flow: 0.49 m³/min (17.3 CFM)	AG DG □119 mm (4.69 in.) Fan Max. Air Flow: 0.83 m ³ /min (29.3 CFM)			AG DG □119 mm (4.69 in.) Fan Max. Air Flow: 1.5 m ³ /min (53.0 CFM)	

For finger guard modules, enclosure fan modules that are equipped with filters and those that are not equipped with filters are available. Slit metal plate modules and dust and water resistant modules are

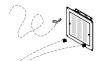
All modules are available in 2 types of air flow direction: suction type and exhaust type.
 Maximum air flow values are examples.

Differentiating Features



■ For information about degree of protection → Website

Slit Metal Plate IP4X Type



The equipment is protected against ingress of wires [with a diameter of 1 mm (0.04 in.) or more]

Dust and Water Resistant IP43 Type



The equipment is protected against ingress of wires [with a diameter of 1 mm (0.04 in.) or more] and sprayed water (coming from directions within a range of 60° relative to the vertical plane)

Dust and Water Resistant IP55 Type



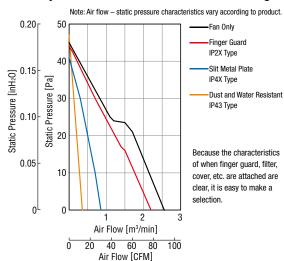
The equipment is protected against the ingress of dust and water jets (from all directions)

Features

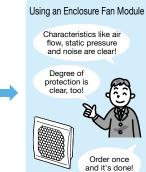
Integrated Structure

Because the enclosure fan modules have an integrated structure, their characteristics are clear, and they are easy to select and easy to install. Also, their integrated structure makes them easy to order.

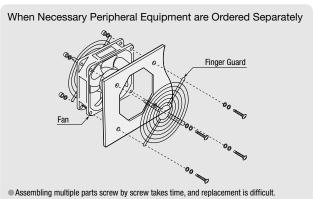
Clearly Defined Characteristics Make Ordering Easy



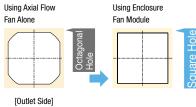




Easy Installation



Installation holes are easy-to-machine square holes.



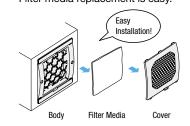
Installation is Easy with the Integrated Structure of the Enclosure Fan Module
(When using finger guard IP2X type)

Speed Nut
(Clip with screw hole, included)

Speed Nut Improves Work Efficiency
By inserting the speed nut into the installation plate, the fan module can be fixed with tapping screws from the exterior of the control box.

Easy Maintenance

Technical Support The body cover can be easily detached from the outside. Filter media replacement is easy.



(When using finger guard IP2X type)

Overview

Axial Flow Fans

> AC Input Low-Power Consumption EMU

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AC Input Large Size, Large Air Flow MRS

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DC Input MDS MD

DC Input Alarm MDA

DC Input Variable Flow MDV

DC Input Long-Life MDE

DC Input Splash proof MDP

Centrifugal Blowers

AC Input MB DC Input MBD

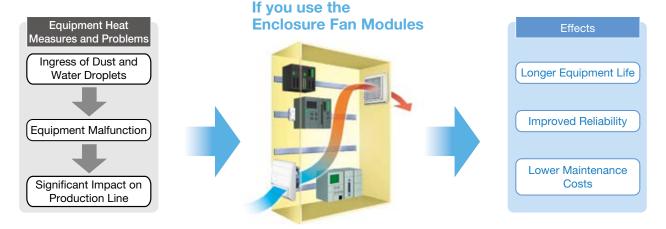
Cross Flow Fans

> AC Input MF DC Input MFD

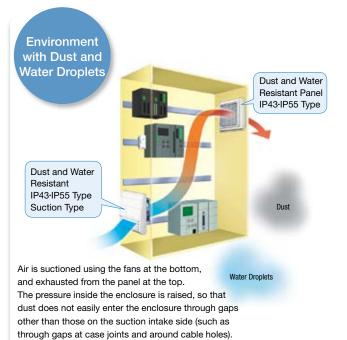
Enclosure Fan Modules

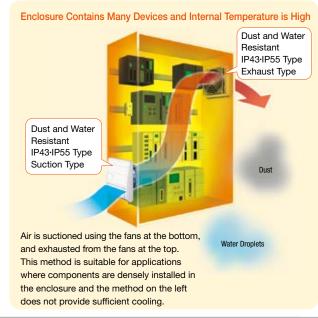
Improvement of Equipment Reliability (Slit Metal Plate IP4X Type, Dust and Water Resistant IP43-IP55 Type)

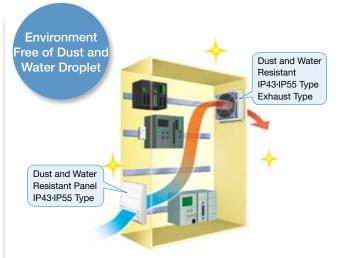
If dust or water droplets enter the control box, the internal devices may malfunction, which can affect the entire equipment system. The slit metal plate IP4X type modules and the dust and water resistant IP43·IP55 type modules prevent the infiltration of dust and water droplets, which improves the service life and reliability of the devices contained in the enclosure.



Application Example







The pressure inside the enclosure is lowered, so that air does not easily leak out through gaps other than the outlet side (such as through gaps at case joints and around cable holes).

Appropriate for use in an environment with no dust or water droplets nearby.

Further Reduction in Power Consumption and Noise with the Use of a Fan Thermostat

What is a Fan Thermostat?

It is a switch that turns the contact ON when a set temperature is reached.

When used with a fan, it can control the ON/OFF state of the fan.



Thermostat AM2-XA1 AM2-WA1

For details, check page H-62.

Fan

Overview

Axial Flow Fans

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Centrifugal Blowers

> AC Input DC Input

Cross Flow Fans

> AC Input DC Input

Enclosure Fan Modules

Product Number

Enclosure Fan Modules

C - MU1238A-21B - G E F G

(1)

3 4 5 7

♦ Slit Metal Plate IP4X Type

C - MU1225S-21 - S E G

(1)

2

3 4 7

♦ Dust and Water Resistant IP43-IP55 Type

C - MU1238B-21B - P E W M G

1

2

3 4 5

6 7

Enclosure Fan Modules

1	Enclosure Fan Module Order Code	
2	Product Name of Mounted Fan	
	Type of Modules	G: Finger Guard IP2X Type
3		S: Slit Metal Plate IP4X Type
		P: Dust and Water Resistant IP43-IP55 Type
4	Cooling Method	E: Exhaust Type S: Suction Type
	Additional Function	Filter (Finger Guard IP2X Type)
(5)		Blank: No additional functions F: With Filter
9		Degree of Protection (Dust and Water Resistant IP43·IP55 Type)
		Blank: IP43 W: IP55
6	Module Size	M: Middle L: Large
7	Finger Guard	G: Finger Guard Attached

Product Line

AC Input

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VAC	Cooling Method	Product Name	List Price
	□119 mm - 38 mm Thick (□4.69 in 1.50 in. Thick)	Single-Phase 115	Exhaust Type	C-MU1238A-21B-GEG	\$58.00
101 × 150 (0.24 × 0.20)			Suction Type	C-MU1238A-21B-GSG	\$58.00
161×158 (6.34×6.22)		Single-Phase 220/230	Exhaust Type	C-MU1238A-51B-GEG	\$60.00
			Suction Type	C-MU1238A-51B-GSG	\$60.00

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VAC	Cooling Method	Product Name	List Price
	□119 mm - 38 mm Thick (□4.69 in 1.50 in. Thick)	Single-Phase 115	Exhaust Type	C-MU1238A-21B-GEFG	\$65.00
161 × 150 (6.24 × 6.22)			Suction Type	C-MU1238A-21B-GSFG	\$65.00
161×158 (6.34×6.22)		Single-Phase 220/230	Exhaust Type	C-MU1238A-51B-GEFG	\$66.00
			Suction Type	C-MU1238A-51B-GSFG	\$66.00

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VAC	Cooling Method	Product Name	List Price
		Single-Phase 115	Exhaust Type	C-MU1225S-21-SEG	\$105.00
	□119 mm - 25 mm Thick	Single-Fliase 115	Suction Type	C-MU1225S-21-SSG	\$105.00
	(□4.69 in 0.98 in. Thick)	Cingle Phase 220/220	Exhaust Type	C-MU1225S-51-SEG	\$105.00
100×100 /7 00×7 00\		Single-Phase 220/230	Suction Type	C-MU1225S-51-SSG	\$105.00
180×180 (7.09×7.09)	□119 mm - 38 mm Thick (□4.69 in 1.50 in. Thick)	Single-Phase 115	Exhaust Type	C-MU1238A-21B-SEG	\$104.00
			Suction Type	C-MU1238A-21B-SSG	\$104.00
		Single-Phase 220/230	Exhaust Type	C-MU1238A-51B-SEG	\$105.00
			Suction Type	C-MU1238A-51B-SSG	\$105.00
		0 5	Exhaust Type	C-MRS18-BH-SEG	\$399.00
284×284	□180 mm - 90 mm Thick	Single-Phase 100/110/115	Suction Type	C-MRS18-BH-SSG	\$399.00
(11.2×11.2)	(□7.09 in 3.54 in. Thick)	Single Phase 200/220/220	Exhaust Type	C-MRS18-DH-SEG	\$409.00
		Single-Phase 200/220/230	Suction Type	C-MRS18-DH-SSG	\$409.00

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VAC	Cooling Method	Product Name	List Price
		Single-Phase 115	Exhaust Type	C-MU925S-21-PEG	\$84.00
129×134 (5.08×5.28)	□92 mm - 25 mm Thick	Single-Phase 115	Suction Type	C-MU925S-21-PSG	\$84.00
129×134 (5.08×5.28)	(□3.62 in 0.98 in. Thick)	Single-Phase 220/230	Exhaust Type	C-MU925S-51-PEG	\$85.00
		Single-Phase 220/230	Suction Type	C-MU925S-51-PSG	\$85.00
157×170 (6.18×6.69)			Exhaust Type	C-MU1238B-21B-PEMG	\$96.00
209×226 (8.23×8.90)		Single-Phase 115	Extraust Type	C-MU1238B-21B-PELG	\$108.00
157×170 (6.18×6.69)			Suction Type	C-MU1238B-21B-PSMG	\$96.00
209×226 (8.23×8.90)	□119 mm - 38 mm Thick			C-MU1238B-21B-PSLG	\$108.00
157×170 (6.18×6.69)	(□4.69 in 1.50 in. Thick)		Full accept Time	C-MU1238B-51B-PEMG	\$97.00
209×226 (8.23×8.90)		Cinale Dhees 000/000	Exhaust Type	C-MU1238B-51B-PELG	\$109.00
157×170 (6.18×6.69)		Single-Phase 220/230	Custion Tune	C-MU1238B-51B-PSMG	\$97.00
209×226 (8.23×8.90)			Suction Type	C-MU1238B-51B-PSLG	\$109.00

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VAC	Cooling Method	Product Name	List Price
		Single-Phase 115	Exhaust Type	C-MU925S-21-PEWG	\$93.00
129×134 (5.08×5.28)	□92 mm - 25 mm Thick	Single-Phase 115	Suction Type	C-MU925S-21-PSWG	\$93.00
129×134 (5.06×5.26)	(□3.62 in 0.98 in. Thick)	Single-Phase 220/230	Exhaust Type	C-MU925S-51-PEWG	\$94.00
		Single-Phase 220/230	Suction Type	C-MU925S-51-PSWG	\$94.00
157×170 (6.18×6.69)			Exhaust Type	C-MU1238B-21B-PEWMG	\$105.00
209×226 (8.23×8.90)		Single-Phase 115		C-MU1238B-21B-PEWLG	\$117.00
157×170 (6.18×6.69)			Suction Type	C-MU1238B-21B-PSWMG	\$105.00
209×226 (8.23×8.90)	□119 mm - 38 mm Thick			C-MU1238B-21B-PSWLG	\$117.00
157×170 (6.18×6.69)	(□4.69 in 1.50 in. Thick)		F. I	C-MU1238B-51B-PEWMG	\$106.00
209×226 (8.23×8.90)		Cinale Phase 220/220	Exhaust Type	C-MU1238B-51B-PEWLG	\$118.00
157×170 (6.18×6.69)		Single-Phase 220/230	Custian Tuna	C-MU1238B-51B-PSWMG	\$106.00
209×226 (8.23×8.90)			Suction Type	C-MU1238B-51B-PSWLG	\$118.00

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Enclosure Fan Modules

DC Input

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VDC	Cooling Method	Product Name	List Price
	□119 mm - 25.4 mm Thick (□4.69 in 1.00 in. Thick)	24	Exhaust Type	C-MD1225-24H-GEG	\$50.00
161×158 (6.34×6.22)			Suction Type	C-MD1225-24H-GSG	\$50.00
101×138 (0.34×0.22)			Exhaust Type	C-MDS1225-24H-GEG	\$58.00
			Suction Type	C-MDS1225-24H-GSG	\$58.00

♦ Fan and Finger Guard IP2X Type with Filter

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VDC	Cooling Method	Product Name	List Price
	□119 mm - 25.4 mm Thick (□4.69 in 1.00 in. Thick)	24	Exhaust Type	C-MD1225-24H-GEFG	\$56.00
161 × 150 (6 24 × 6 22)			Suction Type	C-MD1225-24H-GSFG	\$56.00
161×158 (6.34×6.22)			Exhaust Type	C-MDS1225-24H-GEFG	\$64.00
			Suction Type	C-MDS1225-24H-GSFG	\$64.00

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VDC	Cooling Method	Product Name	List Price
100, (100 (7.00, (7.00)	□119 mm - 25.4 mm Thick (□4.69 in 1.00 in. Thick)	24	Exhaust Type	C-MD1225-24H-SEG	\$94.00
180×180 (7.09×7.09)			Suction Type	C-MD1225-24H-SSG	\$94.00
180×180 (7.09×7.09)			Exhaust Type	C-MDS1225-24H-SEG	\$104.00
			Suction Type	C-MDS1225-24H-SSG	\$104.00

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VDC	Cooling Method	Product Name	List Price
157×170 (6.18×6.69)	□119 mm - 25.4 mm Thick (□4.69 in 1.00 in. Thick)	24	Folkerinsk Toma	C-MD1225-24H-PEMG	\$96.00
209×226 (8.23×8.90)			Exhaust Type	C-MD1225-24H-PELG	\$108.00
157×170 (6.18×6.69)			Suction Type	C-MD1225-24H-PSMG	\$96.00
209×226 (8.23×8.90)				C-MD1225-24H-PSLG	\$108.00

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209×226 (8.23×8.90)	□119 mm - 25.4 mm Thick			C-MD1225-24H-PEWLG	\$117.00
157×170 (6.18×6.69)	(□4.69 in 1.00 in. Thick)		Suction Type	C-MD1225-24H-PSWMG	\$105.00
209×226 (8.23×8.90)				C-MD1225-24H-PSWLG	\$117.00

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