**Cooling Fans** 

# **Enclosure Fan Modules**

Overview, Product Series

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 MBD

Cross Flow Fans

AC Input MF DC Input MFD

**Enclosure Fan Modules** 

Enclosure Fan Modules

**Thermostat** 

Accessories

Installation

# **Enclosure Fan Modules**

For details on this product please refer to our website.

www.orientalmotor.com/catalog



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

# 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)	129×134	157×170	161×158	180×180	209×226	284×284
List Price	(5.08×5.28)	(6.18×6.69)	(6.34×6.22)	(7.09×7.09)	(8.23×8.90)	(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 <sup>3</sup> /min (38.8 CFM)		AC □ 180 mm (7.09 in.) Fan Max. Air Flow: 8.3 m³/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)	AC DC ☐119 mm (4.69 in.) Fan Max. Air Flow: 0.83 m³/min (29.3 CFM)			AG DG  ☐119 mm (4.69 in.) Fan  Max. Air Flow:  1.5 m³/min (53.0 CFM)	

<sup>•</sup> 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 equipped with filters.

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

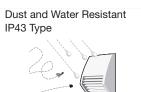
Maximum air flow values are examples.

#### Differentiating Features



■ For information about degree of protection → Page I-8





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)



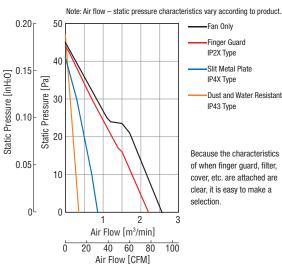
ingress of dust and water jets (from all directions)

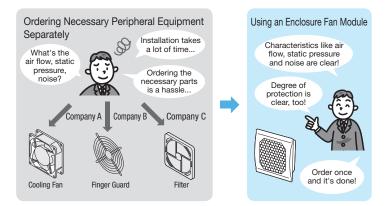
# Features

# Integrated Structure

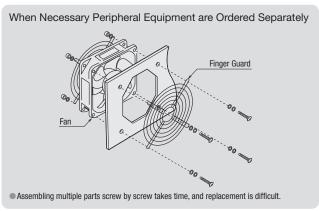
Because the enclosure fan modules have an integrated structure, their characteristics are clear, and they are easy to select and easy to install. Also, their integrated structure makes them easy to order.

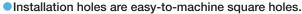
#### Clearly Defined Characteristics Make Ordering Easy

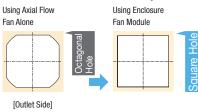




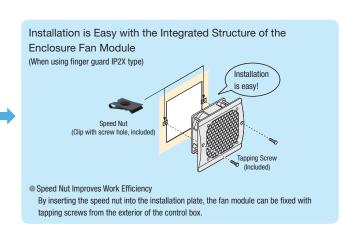
#### Easy Installation





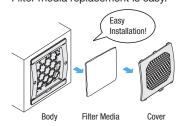


CAD Data Manuals



#### Easy Maintenance

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



(When using finger guard IP2X type)

Axial Flow

Overview, Product Series

Fans AC Input Low-Power Consumption **EMU** 

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DC Input Variable Flow MDV

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DC Input Splash Proof MDP

Centrifugal **Blowers** 

> AC Input MB DC Input

Cross Flow Fans

AC Input DC Input

Enclosure Fan Modules

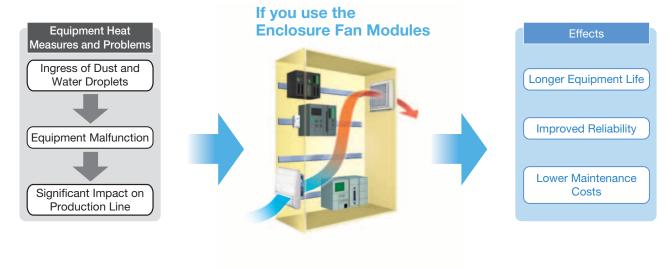
**Thermostat** 

Accessories

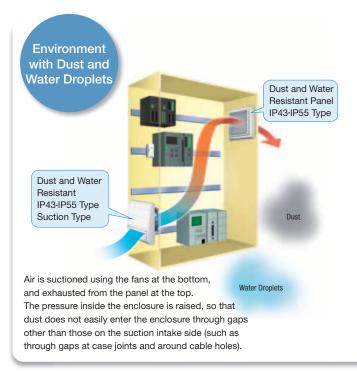
Installation

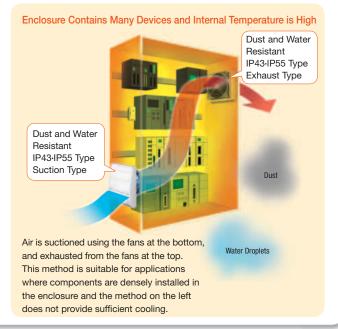
# Improvement of Equipment Reliability (Slit Metal Plate IP4X Type, Dust and Water Resistant IP43-IP55 Type)

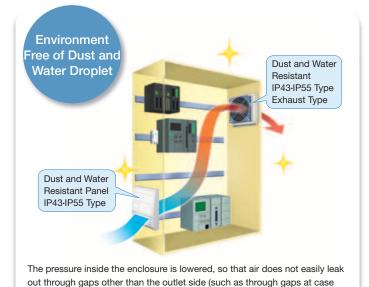
If dust or water droplets enter the control box, the internal devices may malfunction, which can affect the entire equipment system. The slit metal plate IP4X type modules and the dust and water resistant IP43·IP55 type modules prevent the infiltration of dust and water droplets, which improves the service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



# Application Example







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?

CAD Data Manuals

joints and around cable holes).

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.





Additional Benefits! Minimizes noise wher

> the fan is rotating! Multiple fans can simultaneously!



For details, check page G-104.

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Enclosure Fan Modules

**Thermostat** 

Accessories

Installation

# 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)
<b>©</b>		Blank: No additional functions F: With Filter
(5)		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
161 × 150 (6.24 × 6.22)			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)	Single-Phase 220/230	Exhaust Type	C-MU1225S-51-SEG	\$105.00
180×180 (7.09×7.09)		Single-Phase 220/230	Suction Type	C-MU1225S-51-SSG	\$105.00
180 × 180 (7.09 × 7.09)	□119 mm - 38 mm Thick	Single-Phase 115	Exhaust Type	C-MU1238A-21B-SEG	\$104.00
			Suction Type	C-MU1238A-21B-SSG	\$104.00
	(□4.69 in 1.50 in. Thick)	Single-Phase 220/230	Exhaust Type	C-MU1238A-51B-SEG	\$105.00
			Suction Type	C-MU1238A-51B-SSG	\$105.00
		0: 1 8: 100/110/115	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 200/220/230	Exhaust Type	C-MRS18-DH-SEG	\$409.00
		Siffgle-Pflase 200/220/230	Suction Type	C-MRS18-DH-SSG	\$409.00

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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
120 × 124 (5.08 × 5.29)	□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)		Single-Phase 115	Exhaust Type	C-MU1238B-21B-PEMG	\$96.00
209×226 (8.23×8.90)				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 Town	C-MU1238B-51B-PEMG	\$97.00
209×226 (8.23×8.90)		Cinalo Dhoos 200/220	Exhaust Type	C-MU1238B-51B-PELG	\$109.00
157×170 (6.18×6.69)		Single-Phase 220/230	Continu Tono	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)		Single-Phase 115	Exhaust Type	C-MU1238B-21B-PEWMG	\$105.00
209×226 (8.23×8.90)				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)		Exhaust Type	C-MU1238B-51B-PEWMG	\$106.00
209×226 (8.23×8.90)		Cingle Phase 220/220	Extraust type	C-MU1238B-51B-PEWLG	\$118.00
157×170 (6.18×6.69)		Single-Phase 220/230	Cuption Tuno	C-MU1238B-51B-PSWMG	\$106.00
209×226 (8.23×8.90)			Suction Type	C-MU1238B-51B-PSWLG	\$118.00

Product Series

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**Thermostat** 

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# DC Input

## 

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VDC	Cooling Method	Product Name	List Price
		24	Exhaust Type	C-MD1225-24H-GEG	\$50.00
161 × 150 (6.24 × 6.22)	□119 mm - 25.4 mm Thick (□4.69 in 1.00 in. Thick)		Suction Type	C-MD1225-24H-GSG	\$50.00
161×158 (6.34×6.22)			Exhaust Type	C-MDS1225-24H-GEG	\$58.00
			Suction Type	C-MDS1225-24H-GSG	\$58.00

## 

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
180×180 (7.09×7.09)	□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	Full accent Torse	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)			Custion Tuno	C-MD1225-24H-PSMG	\$96.00
209×226 (8.23×8.90)			Suction Type	C-MD1225-24H-PSLG	\$108.00

# $\diamondsuit$ Fan and Dust and Water Resistant IP55 Type

Module Dimensions W×H [mm (in.)]	Installed Fan	Power Supply Voltage VDC	Cooling Method	Product Name	List Price
157×170 (6.18×6.69)		24	Exhaust Type	C-MD1225-24H-PEWMG	\$105.00
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)		Custion Tune	C-MD1225-24H-PSWMG	\$105.00
209×226 (8.23×8.90)			Suction Type	C-MD1225-24H-PSWLG	\$117.00

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