

DC Input

MDS Series, MD Series



The **MDS/MD** Series DC axial flow fans are compact axial flow fans offering good overall performance and value. Available in 8 frame sizes from □42 mm up to φ172 mm and depending on frame size are available with a stall alarm as a standard fan type. Also different speed types are available, from Low Speed, Middle Speed to Standard Speed.

Features

Product Line

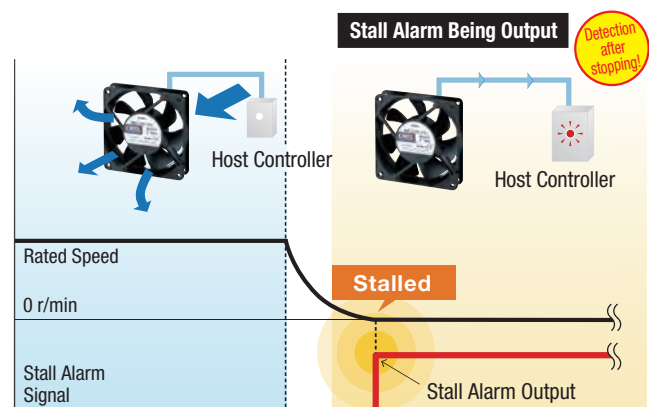
A product line of 8 fan sizes are available, with frame sizes from □42 mm to φ172 mm.

	MDS410	MDS510	MD625	MD825	MD925	MDS1225/ MD1225	MDS1451	MDS1751
Frame Size [mm]	□42	□52	□62	□80	□92	□119	□140	φ172
Frame Thickness [mm]	10	10	25	25	25	25	51	51
Speed Type	Standard Speed	●	●	●	●	●	●	●
	Middle Speed	—	●	●	●	—	—	—
	Low Speed	—	—	—	●	●	—	—
Alarm Type	Stall Alarm	Stall Alarm	Stall Alarm	Stall Alarm	Stall Alarm	—	—	—
Power Supply Voltage	5 VDC	—	—	—	—	—	—	—
	12 VDC	●	●	●	●	●	—	—
	24 VDC	—	—	●	●	●	●	●
	48 VDC	—	—	—	—	—	—	—

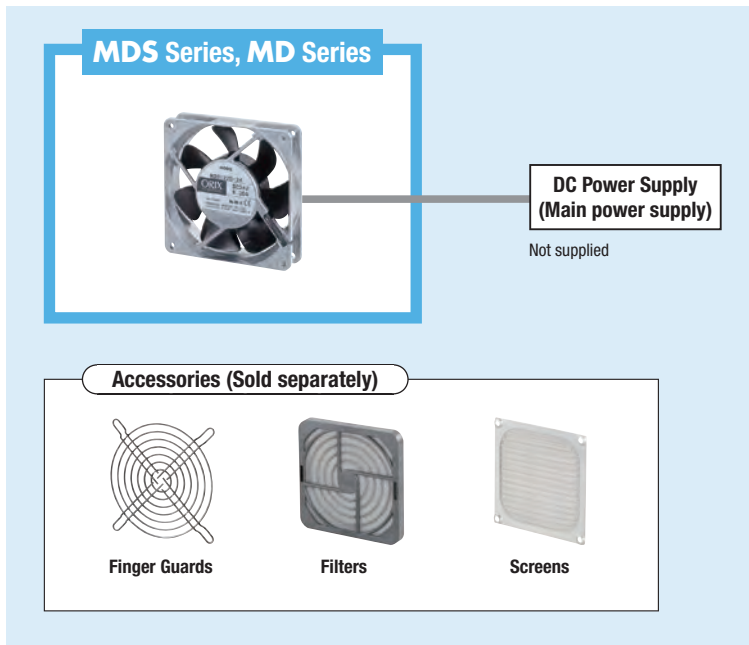
Fans with Stall Alarm

Outputs an alarm when the cooling fan stops.

This allows for quick detection of a problem and replacement if needed.



System Configuration



● Example of System Configuration

Fan	Sold Separately
MDS1225-12	Finger Guard
€36.00	FG12D
	€6.00

● The system configuration shown above is an example. Other combinations are also available.

Product Number

● Fan Only

MD 9 25 A - 12 L

① ② ③ ④ ⑤ ⑥

①	Series	MDS: MDS Series MD: MD Series
②	Frame Size	4: 42 mm, 5: 52 mm, 6: 62 mm, 8: 80 mm, 9: 92 mm, 12: 119 mm, 14: 140 mm, 17: ϕ 172 mm
③	Frame Thickness	10: 10 mm, 25: 25 mm, 51: 51 mm
④	Speed Type	Blank, A, B: Standard Speed M, AM, BM: Middle Speed AL, BL: Low Speed
⑤	Power Supply Voltage	5: 5 VDC, 12: 12 VDC, 24: 24 VDC, 48: 48 VDC
⑥	Additional Function	L: Stall Alarm, Electronic Alarm Type Blank: No additional functions

● Fan Kit

T - MD925A - 12L - G

① ② ③

①	Fan Kit Order Code
②	Fan Product Name
③	G: With finger guard and installation screws

Overview,
Product
SeriesAxial
Flow
FansAC Input
Energy Saving
EMUAC Input
Energy Saving,
Variable Flow
EMRAC Input
Compact Size
MUAC Input
Long-Life
MREDC Input
MDS
MDDC Input
Alarm
MDADC Input
Long-Life
MDECentrifugal
BlowersAC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MGD

Accessories

Installation

MDS Series

42 mm – 10 mm Thick



With Stall Alarm

Operating Voltage Range: ±10%
Overheat Protection: Built-in Overheat Protection Circuit
Color
Frame: Black Blades: Black
Materials
Frame: Polycarbonate (Flammability grade V-0)
Blades: PBT (Flammability grade V-0)

42 mm

52 mm

62 mm

80 mm

92 mm

119 mm

140 mm

φ172 mm

Specifications



Series	Speed Type	Function	Product Name	Voltage VDC	Current A	Speed r/min	Max. Air Flow m ³ /min	Max. Static Pressure Pa	Noise Level dB (A)
MDS Series	Standard Speed	Standard Type	MDS410-12	12	0.16	10000	0.18	86	34
		Stall Alarm, Electronic Alarm Type (Alarm specifications: ⑦)	MDS410-12L	12	0.16				

Product Line

Fan Only

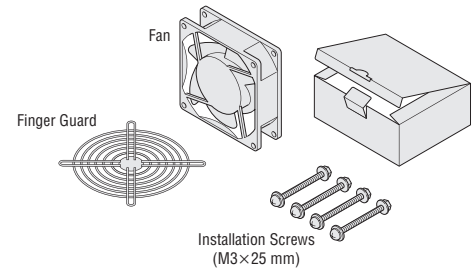
Product Name	List Price
MDS410-12	€19.00
MDS410-12L	€19.00

The following items are included with each product.
Fan, Operating Manual

Fan Kit

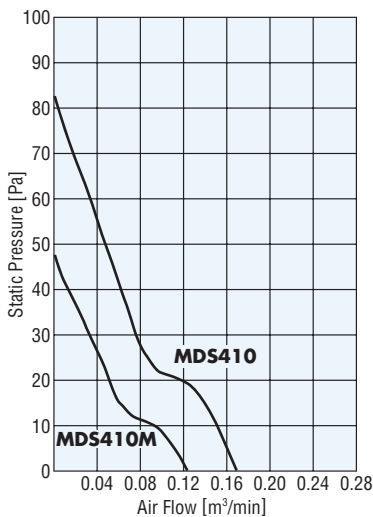
Product Name	List Price
T-MDS410-12-G	€22.00
T-MDS410-12L-G	€22.00

The following items are included in each kit.



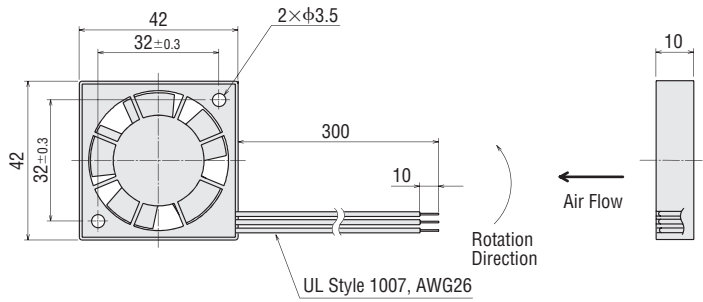
Air Flow – Static Pressure Characteristics

(The characteristics are applicable for the fan only.)

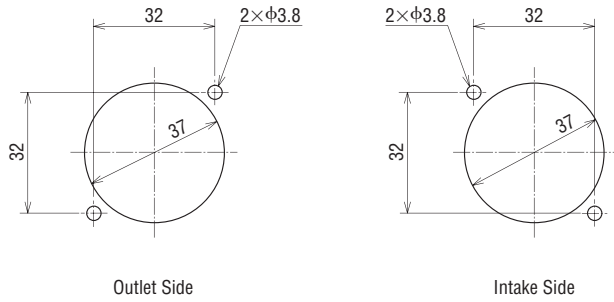


Dimensions Unit: mm

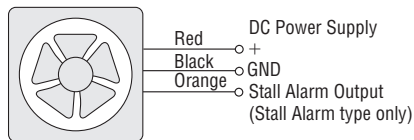
Mass: 25 g



Panel Cut-Out Unit: mm



Connection Diagrams



Accessories

Product	Product Name	List Price
Finger Guard	FG4D	€5.00

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MFD

Accessories

Installation

MDS Series

52 mm – 10 mm Thick



With Stall Alarm

Operating Voltage Range: ±10%
Overheat Protection: Built-in Overheat Protection Circuit
Color
Frame: Black Blades: Black
Materials
Frame: Polycarbonate (Flammability grade V-0)
Blades: PBT (Flammability grade V-0)

42 mm

52 mm

62 mm

80 mm

92 mm

119 mm

140 mm

φ172 mm

Specifications



Series	Speed Type	Function	Product Name	Voltage VDC	Current A	Speed r/min	Max. Air Flow m ³ /min	Max. Static Pressure Pa	Noise Level dB(A)
MDS Series	Standard Speed	Standard Type	MDS510-12	12	0.14	7000	0.27	54	36
		Stall Alarm, Electronic Alarm Type (Alarm specifications: ⑦)	MDS510-12L	12	0.14				
	Middle Speed	Standard Type	MDS510M-12	12	0.12	5500	0.20	32	30

Product Line

Fan Only

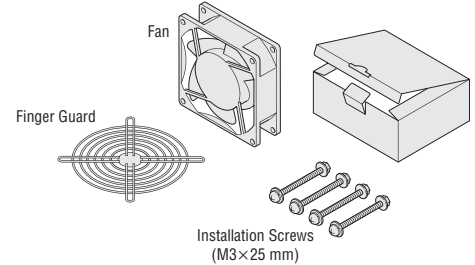
Product Name	List Price
MDS510-12	€20.00
MDS510-12L	€20.00
MDS510M-12	€20.00

Fan Kit

Product Name	List Price
T-MDS510-12-G	€23.00
T-MDS510-12L-G	€23.00
T-MDS510M-12-G	€23.00

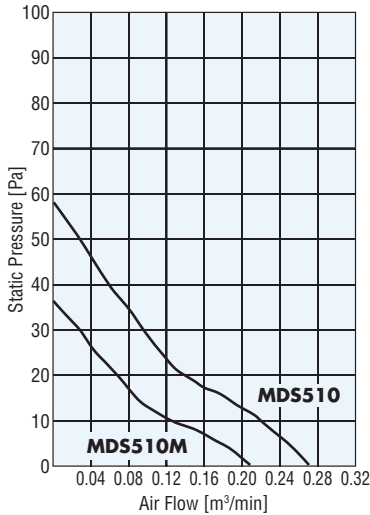
The following items are included with each product.
Fan, Operating Manual

The following items are included in each kit.



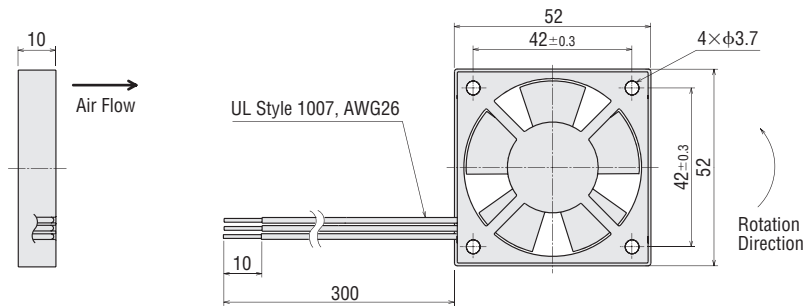
Air Flow – Static Pressure Characteristics

(The characteristics are applicable for the fan only.)

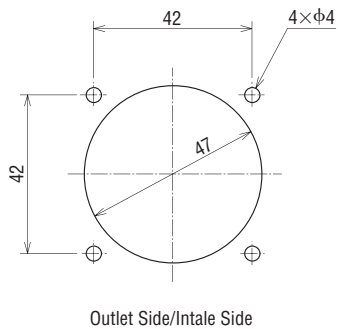


Dimensions Unit: mm

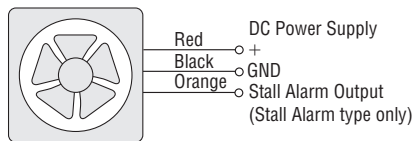
Mass: 30 g



Panel Cut-Out Unit: mm



Connection Diagrams



Accessories

Product	Product Name	List Price
Finger Guard	FG5D	€4.00

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MGD

Accessories

Installation

MD Series

62 mm – 25 mm Thick

□ 42 mm

□ 52 mm

□ 62 mm

□ 80 mm

□ 92 mm

□ 119 mm

□ 140 mm

φ172 mm

Specifications



Series	Speed Type	Function	Product Name	Voltage VDC	Current A	Speed r/min	Max. Air Flow m ³ /min	Max. Static Pressure Pa	Noise Level dB (A)
MD Series	Standard Speed	Standard Type	MD625B-12	12	0.16	4000	0.50	49	30
		Stall Alarm, Electronic Alarm Type (Alarm specifications: ⑦)	MD625B-12L	12	0.16				
	Middle Speed	Standard Type	MD625BM-12	12	0.1	3000	0.37	27	20
			MD625BM-24	24	0.07				

**With Stall Alarm**

Operating Voltage Range: ±15%

Overheat Protection: Built-in Overheat Protection Circuit

Color

Frame: Black Blades: Black

Materials

Frame: Polycarbonate (Flammability grade V-0)

Blades: Polycarbonate (Flammability grade V-0)

Product Line

● Fan Only

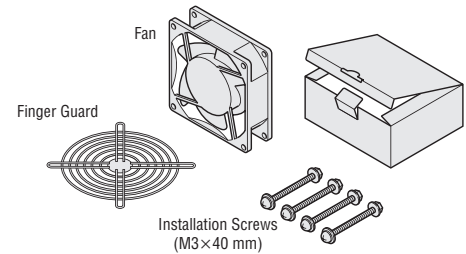
Product Name	List Price
MD625B-12	€21.00
MD625B-12L	€21.00
MD625BM-12 MD625BM-24	€21.00

The following items are included with each product.
Fan, Operating Manual

● Fan Kit

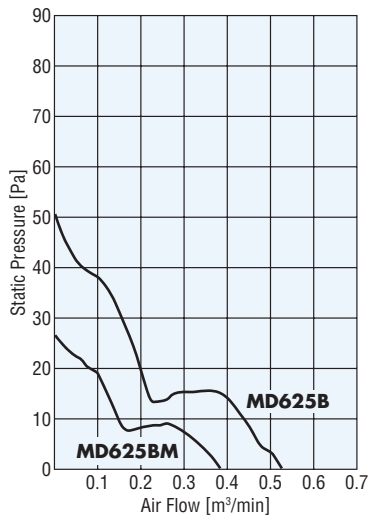
Product Name	List Price
T-MD625B-12-G	€24.00
T-MD625B-12L-G	€24.00
T-MD625BM-12-G T-MD625BM-24-G	€24.00

The following items are included in each kit.



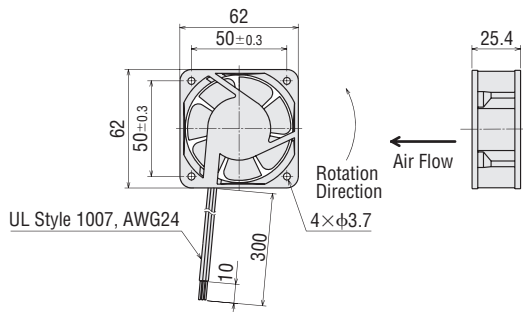
Air Flow – Static Pressure Characteristics

(The characteristics are applicable for the fan only.)

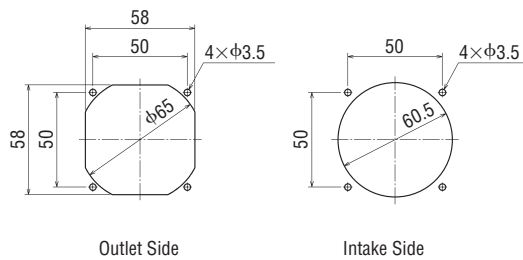


Dimensions Unit: mm

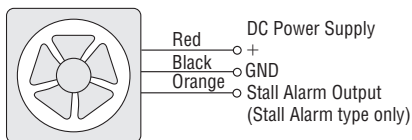
Mass: 0.1 kg



Panel Cut-Out Unit: mm



Connection Diagrams



Accessories

Product	Product Name	List Price
Finger Guard	FG6D	€4.00
Filter	FL6	€8.00
Screen	FS6S	€9.00

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MFD

Accessories

Installation

MD Series

80 mm – 25 mm Thick
**With Stall Alarm**

Operating Voltage Range: $\pm 15\%$
Overheat Protection: Built-in Overheat Protection Circuit

Color

Frame: Black Blades: Black

Materials

Frame: Polycarbonate (Flammability grade V-0)

Blades: Polycarbonate (Flammability grade V-0)

□ 42 mm

□ 52 mm

□ 62 mm

□ 80 mm

□ 92 mm

□ 119 mm

□ 140 mm

φ172 mm

Specifications



Series	Speed Type	Function	Product Name	Voltage VDC	Current A	Speed r/min	Max. Air Flow m ³ /min	Max. Static Pressure Pa	Noise Level dB (A)
MD Series	Standard Speed	Standard Type	MD825B-12	12	0.25	3800	1.00	49	35
		Stall Alarm, Electronic Alarm Type (Alarm specifications: ⑦)	MD825B-12L	12	0.25				
	Middle Speed	Standard Type	MD825BM-12	12	0.15	2800	0.73	29	26
			MD825BM-24	24	0.09				
	Low Speed	Standard Type	MD825BL-12	12	0.07	2100	0.55	16	18

Product Line

● Fan Only

Product Name	List Price
MD825B-12	—
MD825B-12L	—
MD825BM-12 MD825BM-24	€21.00
MD825BL-12	—

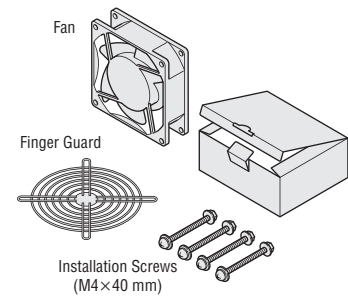
The following items are included with each product.

Fan, Operating Manual

● Fan Kit

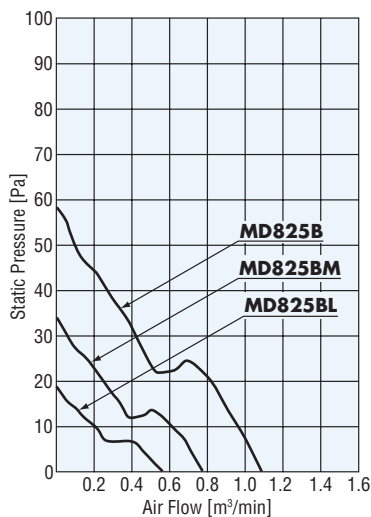
Product Name	List Price
T-MD825B-12-G	—
T-MD825B-12L-G	—
T-MD825BM-12-G T-MD825BM-24-G	€24.00
T-MD825BL-12-G	—

The following items are included in each kit.



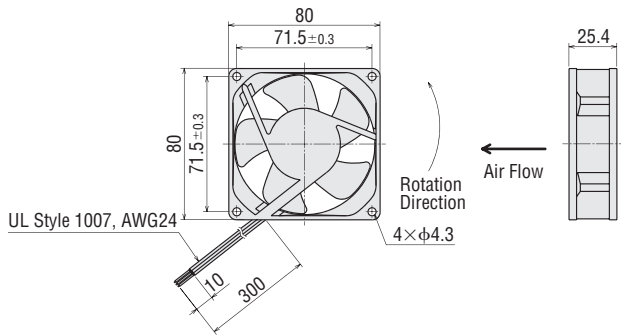
Air Flow – Static Pressure Characteristics

(The characteristics are applicable for the fan only.)

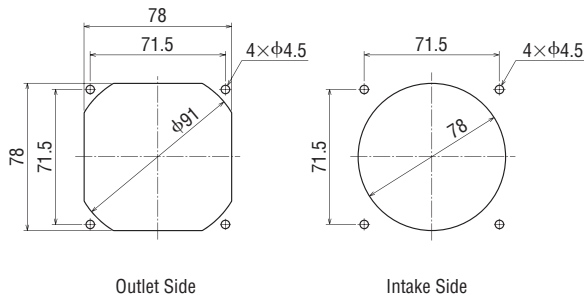


Dimensions Unit: mm

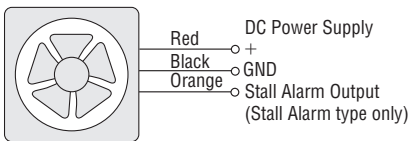
Mass: 0.11 kg



Panel Cut-Out Unit: mm



Connection Diagrams



Accessories

Product	Product Name	List Price
Finger Guard	FG8D	€5.00
Stainless Steel Finger Guard	FG8S	€6.00
Filter	FL8	€10.00
Screen	FS8S	€8.00

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MFD

Accessories

Installation

MD Series

92 mm – 25 mm Thick
**With Stall Alarm**Operating Voltage Range: $\pm 15\%$ Overheat Protection: Built-in Overheat Protection Circuit
Color

Frame: Black Blades: Black

Materials

Frame: Polycarbonate (Flammability grade V-0)

Blades: Polycarbonate (Flammability grade V-0)

□ 42 mm

□ 52 mm

□ 62 mm

□ 80 mm

□ 92 mm

□ 119 mm

□ 140 mm

φ172 mm

Specifications



Series	Speed Type	Function	Product Name	Voltage VDC	Current A	Speed r/min	Max. Air Flow m ³ /min	Max. Static Pressure Pa	Noise Level dB(A)	
MD Series	Standard Speed	Standard Type	MD925A-12	12	0.24	3400	1.30	49	36	
		Stall Alarm, Electronic Alarm Type (Alarm specifications: ⑦)	MD925A-12L	12	0.24					
	Middle Speed	Standard Type	MD925AM-12	12	0.15	2800	1.1	34	31	
			MD925AM-24	24	0.09					
	Low Speed	Standard Type		MD925AL-12	12	0.1	2200	0.90	22	25
				MD925AL-24	24	0.07				

Product Line

● Fan Only

Product Name	List Price
MD925A-12	—
MD925A-12L	—
MD925AM-12 MD925AM-24	€23.00
MD925AL-12 MD925AL-24	€23.00

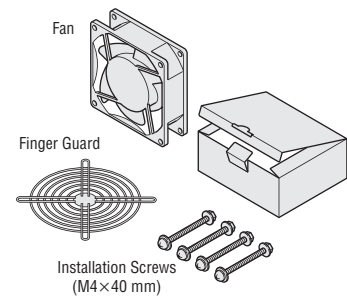
The following items are included with each product.

Fan, Operating Manual

● Fan Kit

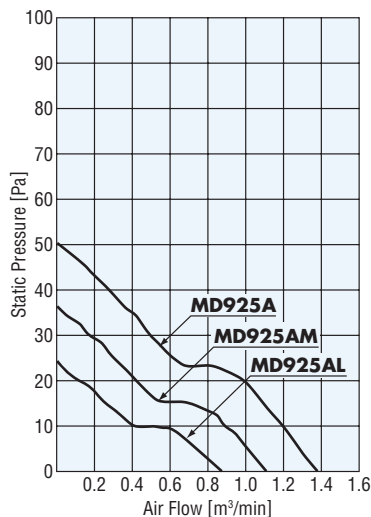
Product Name	List Price
T-MD925A-12-G	—
T-MD925A-12L-G	—
T-MD925AM-12-G T-MD925AM-24-G	€27.00
T-MD925AL-12-G T-MD925AL-24-G	€27.00

The following items are included in each kit.



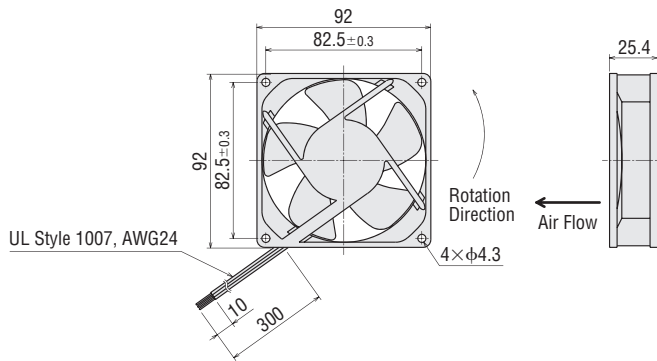
Air Flow – Static Pressure Characteristics

(The characteristics are applicable for the fan only.)

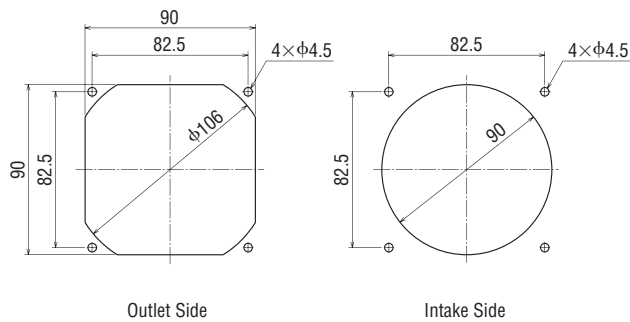


Dimensions Unit: mm

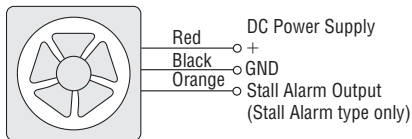
Mass: 0.12 kg



Panel Cut-Out Unit: mm



Connection Diagrams



Accessories

Product	Product Name	List Price
Finger Guard	FG9D	€5.00
Stainless Steel Finger Guard	FG9S	€6.00
Filter	FL9	€9.00
Screen	FS9S	€8.00

● Use M3 screws to install the **FL9** filter to the fan frame.

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MGD

Accessories

Installation

MDS • MD Series

119 mm – 25 mm Thick



MDS Series

MD Series

Operating Voltage Range: ±15%
Overheat Protection: Built-in Overheat Protection Circuit
Color
Frame: Unpainted (Aluminum) Blades: Black
Materials
Frame: Die Cast Aluminum
Blades: Polycarbonate (Flammability grade V-0)

42 mm

52 mm

62 mm

80 mm

92 mm

119 mm

140 mm

φ172 mm

Specifications



Series	Speed Type	Function	Product Name	Voltage VDC	Current A	Speed r/min	Max. Air Flow m ³ /min	Max. Static Pressure Pa	Noise Level dB(A)
MDS Series	Standard Speed	Standard Type	MDS1225-12	12	0.58	3000	2.7	70	46
MD Series	Standard Speed	Standard Type	MD1225-12	12	0.47	3100	2.5	43	45

Product Line

Fan Only

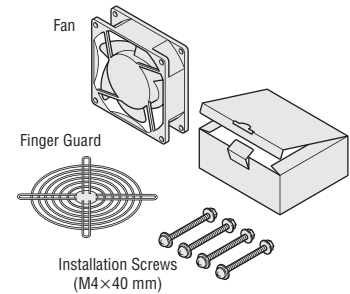
Product Name	List Price
MDS1225-12	€36.00
MD1225-12	€29.00

The following items are included with each product.
Fan, Operating Manual

Fan Kit

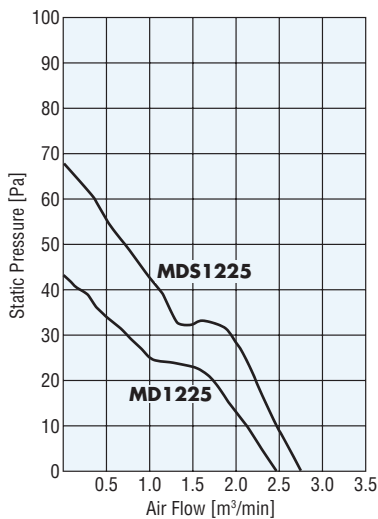
Product Name	List Price
T-MDS1225-12-G	€40.00
T-MD1225-12-G	€33.00

The following items are included in each kit.



Air Flow – Static Pressure Characteristics

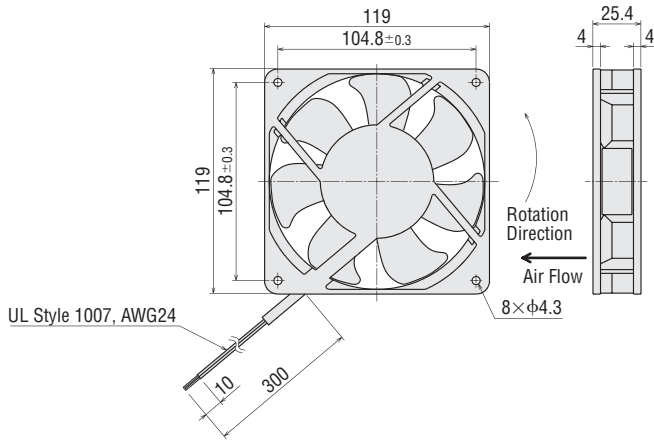
(The characteristics are applicable for the fan only.)



Dimensions Unit: mm

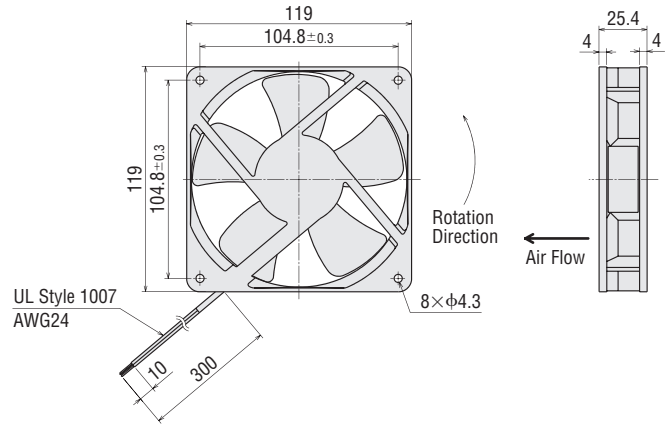
● MDS Series

Mass: 0.3 kg

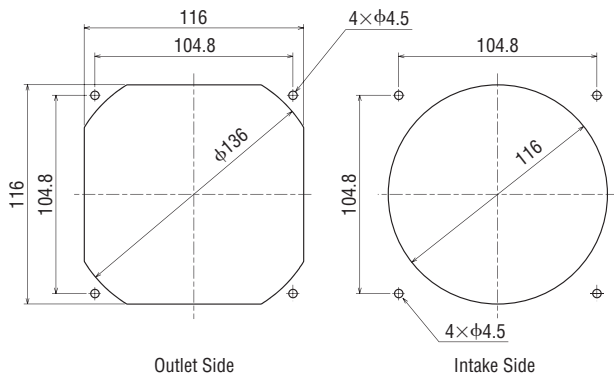


● MD Series

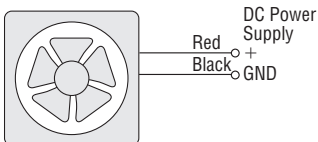
Mass: 0.19 kg



Panel Cut-Out Unit: mm



Connection Diagrams



Accessories

Product	Product Name	List Price
Finger Guard	FG12D	€6.00
Stainless Steel Finger Guard	FG12S	€7.00
Filter	FL12	€9.00
Metallic Filter	FLW12	€15.00
Screen	FS12S	€8.00

Overview, Product Series

Axial Flow Fans

AC Input Energy Saving **EMU**

AC Input Energy Saving, Variable Flow **EMR**

AC Input Compact Size **MU**

AC Input Long-Life **MRE**

DC Input **MDS MD**

DC Input Alarm **MDA**

DC Input Long-Life **MDE**

Centrifugal Blowers

AC Input **MB**
DC Input **MBD**

Cross Flow Fans

AC Input **MF**
DC Input **MFD**

Accessories

Installation

MDS Series

140 mm – 51 mm Thick



With Stall Alarm

Operating Voltage Range: ±15%
Overheat Protection: Built-in Overheat Protection Circuit
Color
Frame: Unpainted (Aluminum) Blades: Black
Materials
Frame: Die Cast Aluminum
Blades: Polycarbonate (Flammability grade V-0)

42 mm

52 mm

Specifications



62 mm

Series	Speed Type	Function	Product Name	Voltage VDC	Current A	Speed r/min	Max. Air Flow m ³ /min	Max. Static Pressure Pa	Noise Level dB (A)
MDS Series	Standard Speed	Standard Type	MDS1451-24	24	0.7	3150	5.8	130	49

80 mm

92 mm

Product Line

119 mm

Fan Only

Product Name	List Price
MDS1451-24	€61.00

Fan Kit

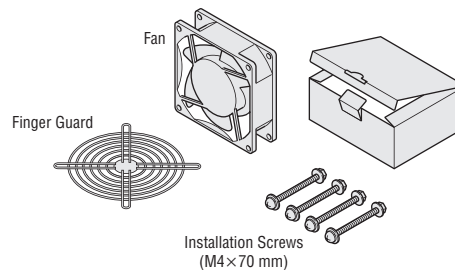
Product Name	List Price
T-MDS1451-24-G	€66.00

140 mm

The following items are included with each product.
Fan, Operating Manual

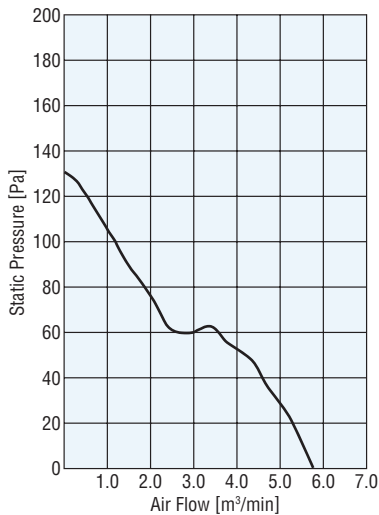
φ172 mm

The following items are included in each kit.



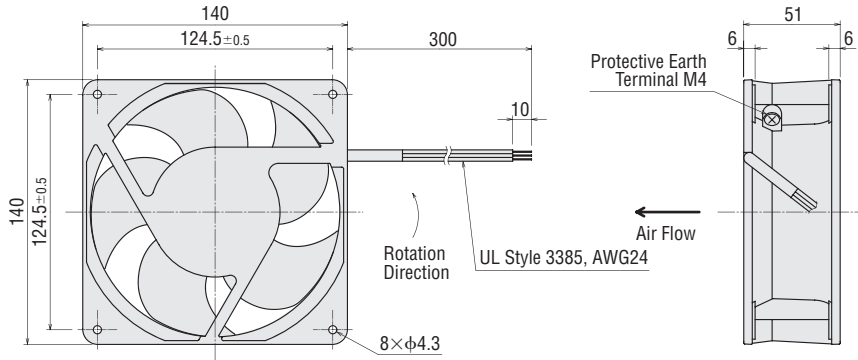
Air Flow – Static Pressure Characteristics

(The characteristics are applicable for the fan only.)

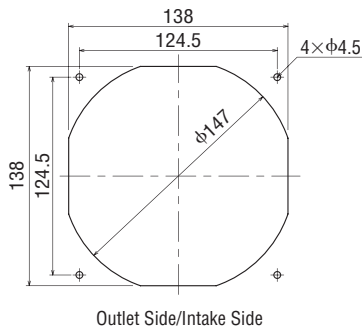


Dimensions Unit: mm

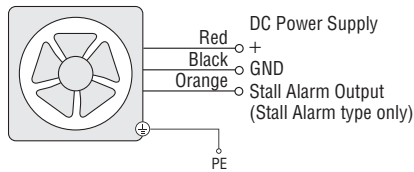
Mass: 0.65 kg



Panel Cut-Out Unit: mm



Connection Diagrams



Accessories

Product	Product Name	List Price
Finger Guard	FG14D	€6.00
Stainless Steel Finger Guard	FG14S	€7.00
Filter	FL14	€15.00
Metallic Filter	FLW14	€19.00

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MFD

Accessories

Installation

MDS Series

φ172 mm – 51 mm Thick



Operating Voltage Range: ±15%
Overheat Protection: Built-in Overheat Protection Circuit
Color
Frame: Unpainted (Aluminum) Blades: Black
Materials
Frame: Die Cast Aluminum
Blades: Polycarbonate (Flammability grade V-0)

□ 42 mm

□ 52 mm

□ 62 mm

□ 80 mm

□ 92 mm

□ 119 mm

□ 140 mm

φ172 mm

Specifications



Series	Speed Type	Product Name	Voltage VDC	Current A	Speed r/min	Max. Air Flow m ³ /min	Max. Static Pressure Pa	Noise Level dB (A)
MDS Series	Standard Speed Type	MDS1751-24	24	0.7	3200	6	137	47

● Only **MDS1751-24** lead wire model is DEMKO certified.

Product Line

● Fan Only

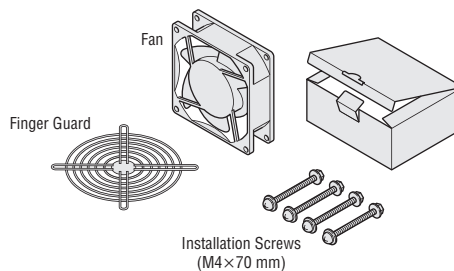
Product Name	List Price
MDS1751-24	€75.00

The following items are included with each product.
Fan, Operating Manual

● Fan Kit

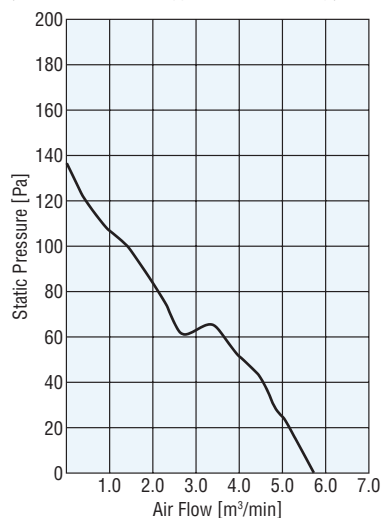
Product Name	List Price
T-MDS1751-24-G	€86.00

The following items are included in each kit.



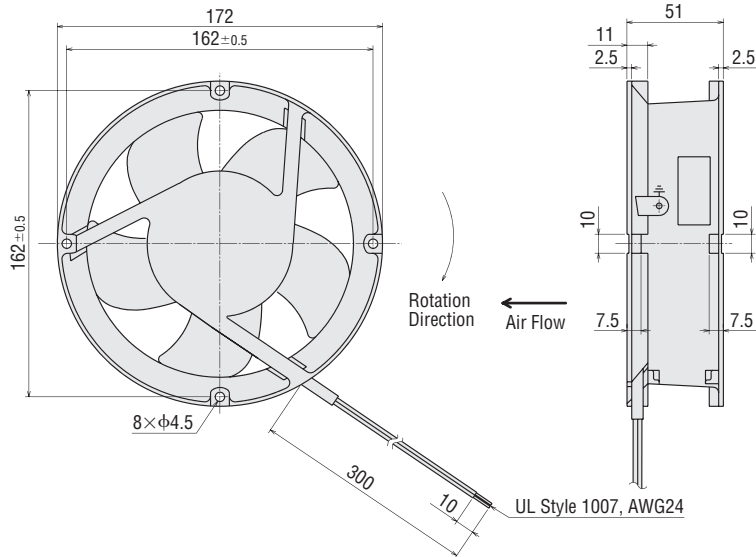
Air Flow – Static Pressure Characteristics

(The characteristics are applicable for the fan only.)

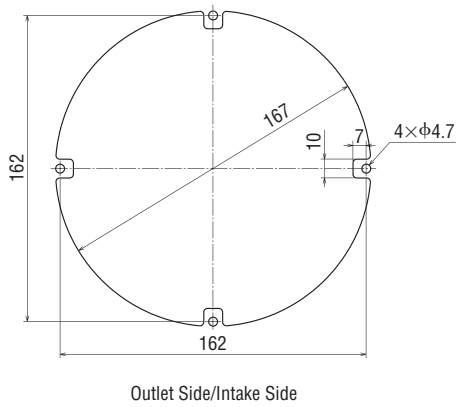


Dimensions Unit: mm

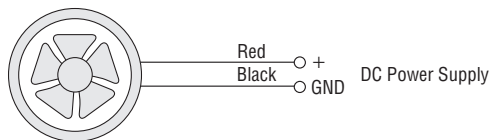
Mass: 0.9 kg



Panel Cut-Out Unit: mm



Connection Diagrams



Accessories

Product	Product Name	List Price
Finger Guard	FG17D	€12.00

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MGD

Accessories

Installation

Cooling Fans

Accessories

	Page
Finger Guards.....	G-100
Filters.....	G-103
Screens	G-106
Plug Cords for Connection to Power Supply	G-107
Power Supply Cables	G-107
External Speed Potentiometer	G-108

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MFD

Accessories

Accessories

Installation

Finger Guards

Stainless Steel Finger Guards

It is very dangerous to touch fan blades when the fan is operating. Finger guards prevent fingers or foreign objects from entering the device. Finger guards are mounted to the fan frame using bolts.

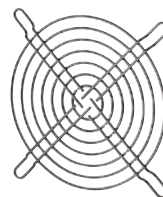
● Finger Guards

Material: Steel wire Finish: Chrome plating

● Stainless Steel Finger Guards

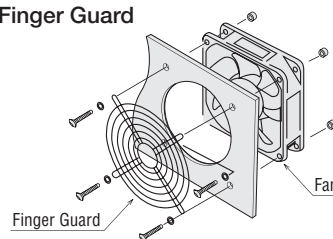
Material: Stainless steel Finish: Electropolish

● For the **EMU** Series, **MU** Series, **MDS** Series, **MD** Series, **MDA** Series and **MDE** Series, if the installation screws included in the fan kit product are used, finger guards can be installed on both sides of the fan. (When the installation panel thickness is 2 mm or less)



For Axial Flow Fans

Installing the Finger Guard

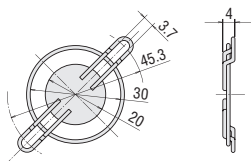


Dimensions Unit: mm

● Finger Guards for Axial Flow Fans

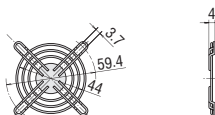
FG4D..... for MDS410

List Price €5.00 Mass: 4.2 g



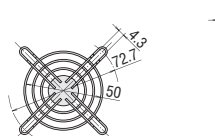
FG5D..... for MDS510

List Price €4.00 Mass: 7.7 g



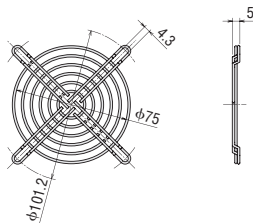
FG6D..... for MD625 and MDA625

List Price €4.00 Mass: 8.3 g



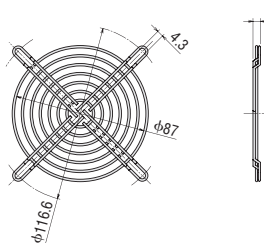
FG8D..... for MU825, MD825 and MDA825

List Price €5.00 Mass: 23 g



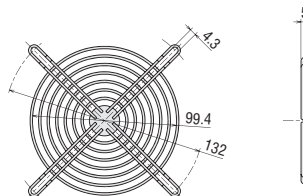
FG9D..... for MU925, MD925 and MDA925

List Price €5.00 Mass: 28 g



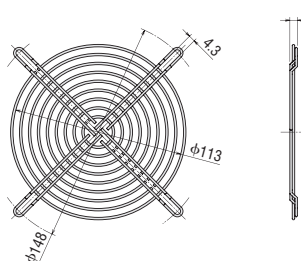
FG10D..... for MU1025

List Price €5.00 Mass: 34 g



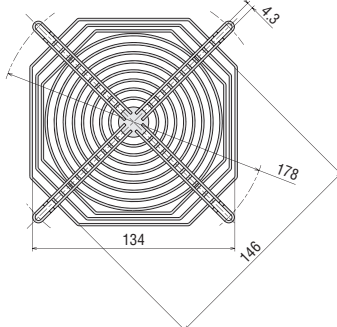
FG12D..... for EMU1238, MU1225, MU1238, MD1225, MDS1225, MDA1225 and MDE1225

List Price €6.00 Mass: 42 g



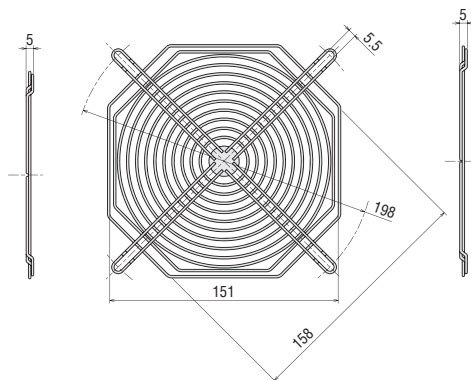
FG14D..... for MU1428, MDS1451, MDA1451 and MDE1451

List Price €6.00 Mass: 64 g

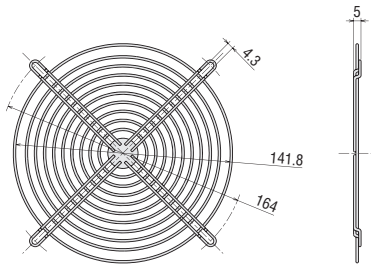


FG16D..... for MRE16

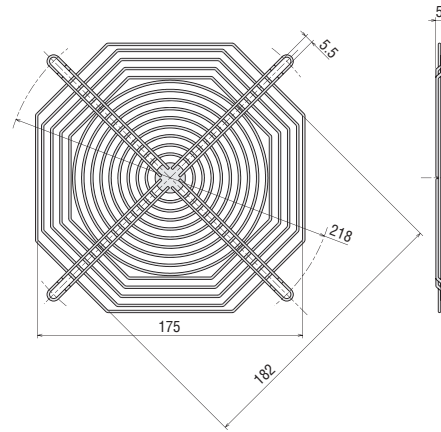
List Price €10.00 Mass: 75 g



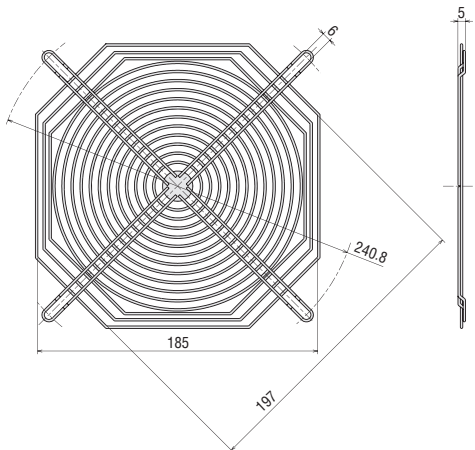
FG17D..... for **MDS1751** and **MDA1751**
List Price €12.00 Mass: 57 g



FG18D..... for **MRE18**
List Price €15.00 Mass: 95 g



FG20D..... for **MRE20**
List Price €19.00 Mass: 105 g



Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

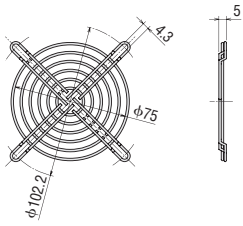
AC Input
MF
DC Input
MGD

Accessories

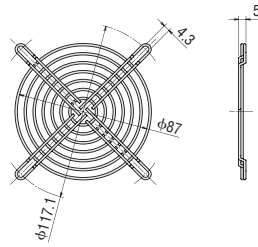
Installation

● Stainless Steel Finger Guards for Axial Flow Fans

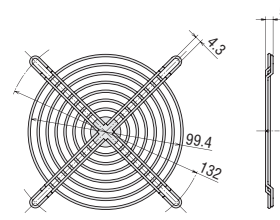
FG85..... for **MU825, MD825** and **MDA825**
List Price €6.00 Mass: 22 g



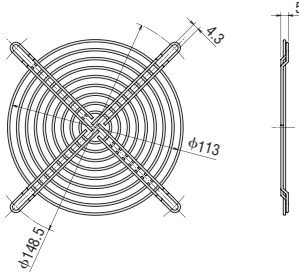
FG95..... for **MU925, MD925** and **MDA925**
List Price €6.00 Mass: 27 g



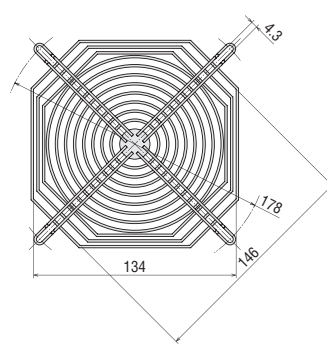
FG105..... for **MU1025**
List Price €6.00 Mass: 33 g



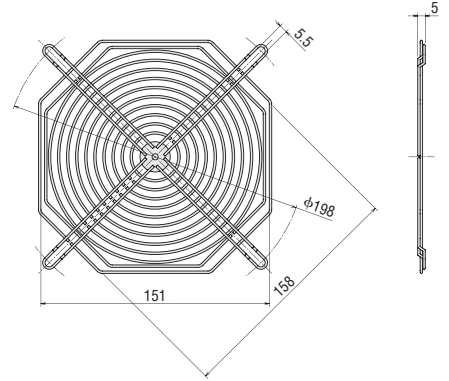
FG125..... for **EMU1238, MU1225, MU1238, MD1225, MDS1225, MDA1225** and **MDE1225**
List Price €7.00 Mass: 41 g



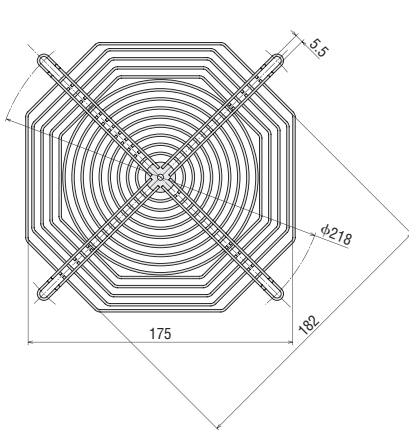
FG145..... for **MU1428, MDS1451, MDA1451** and **MDE1451**
List Price €7.00 Mass: 64 g



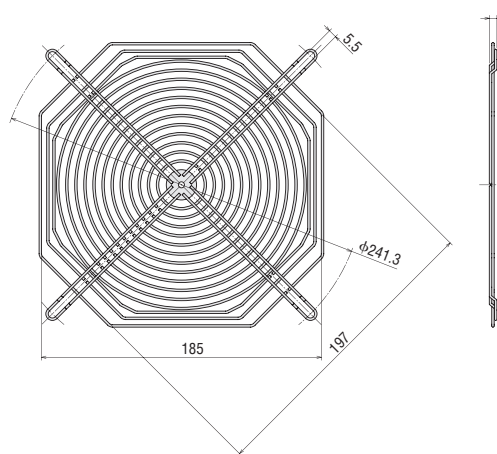
FG165..... for **MRE16**
List Price €11.00 Mass: 73g



FG185..... for **MRE18**
List Price €16.00 Mass: 92 g



FG205..... for **MRE20**
List Price €20.00 Mass: 103 g



Filters

Metallic Filters

When using a fan to cool machinery, dust may accumulate inside the machinery after long periods of operation. Depending on the parts involved, this could cause a malfunction.

These filters prevent dust from entering the device, keeping the air inside the machinery dust free.

Additionally, because the material of the metallic filter is stainless metal, there is no worry of rust or corrosion and it is possible to remove deposits by washing or vacuuming with a vacuum cleaner.

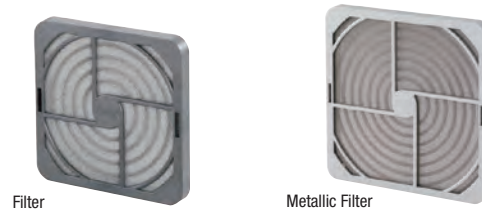
The filter and metal filter consist of the following three parts:

● Filter

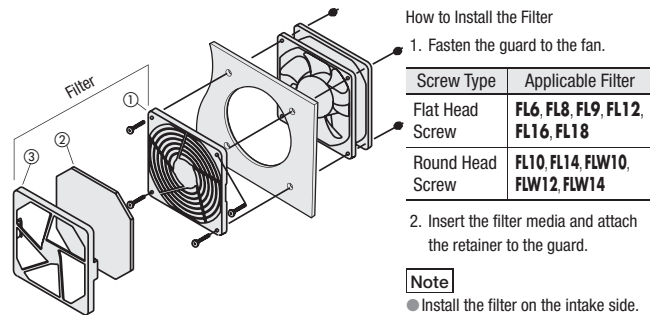
- ① Guard : Plastic finger guard
Flammability grade: V-0
- ② Filter Media: Polyurethane air-cleaning filter media 20 to 45 PPI
(PPI: The number of air bubbles per inch)
- ③ Retainer : Plastic retainer for filtering material
Flammability grade: V-0

● Metallic Filter

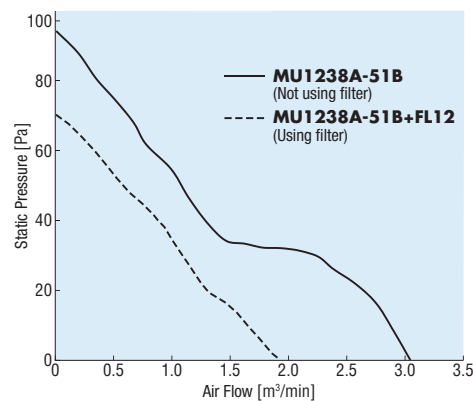
- ① Guard : Nylon resin finger guard
Flammability grade: V-0
 - ② Filter Media: Stainless media 30 mesh
(Mesh: Number of square holes per 1 inch)
 - ③ Retainer : Nylon resin retainer for filtering material
Flammability grade: V-0
- The filter media and the retainer of the filter and metallic filter can be attached and detached very easily for washing or other kinds of maintenance.



Installing the Filter



Example of Air Flow – Static Pressure Characteristics When Using a Filter

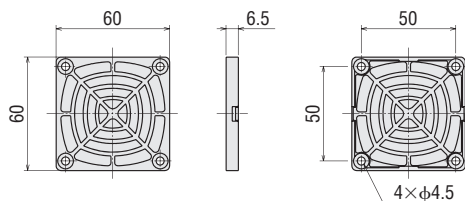


Dimensions Unit: mm

● Filters for Axial Flow Fans

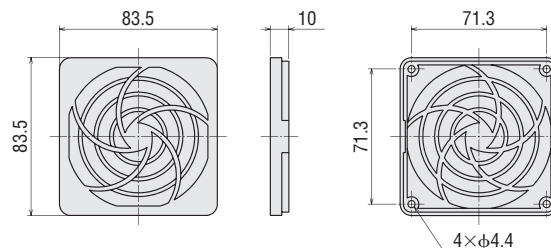
FL6..... for MD625 and MDA625

List Price €8.00 Mass: 11 g (Filter media: 45 PPI)



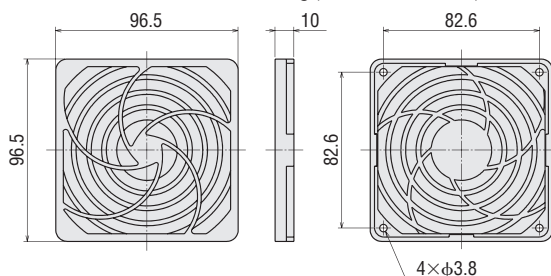
FL8..... for MU825, MD825 and MDA825

List Price €10.00 Mass: 19 g (Filter media: 20 PPI)



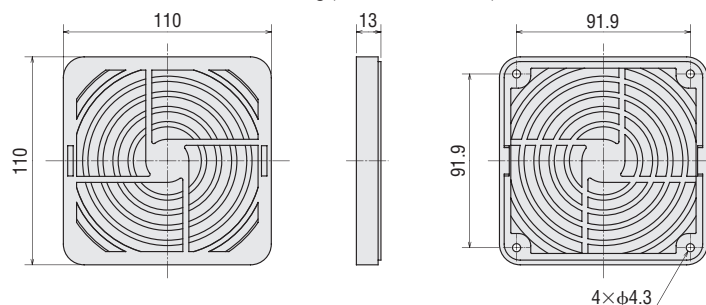
FL9..... for MU925, MD925 and MDA925

List Price €9.00 Mass: 26 g (Filter media: 20 PPI)



FL10..... for MU1025

List Price €9.00 Mass: 63 g (Filter media: 30 PPI)



Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

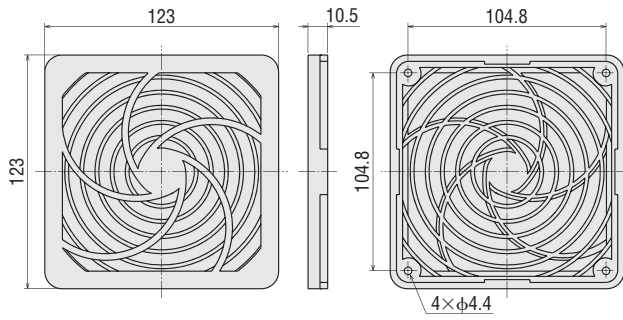
Cross Flow Fans

AC Input
MF
DC Input
MFD

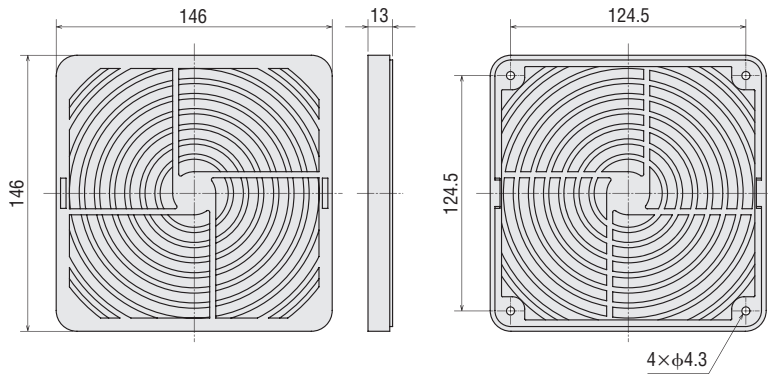
Accessories

Installation

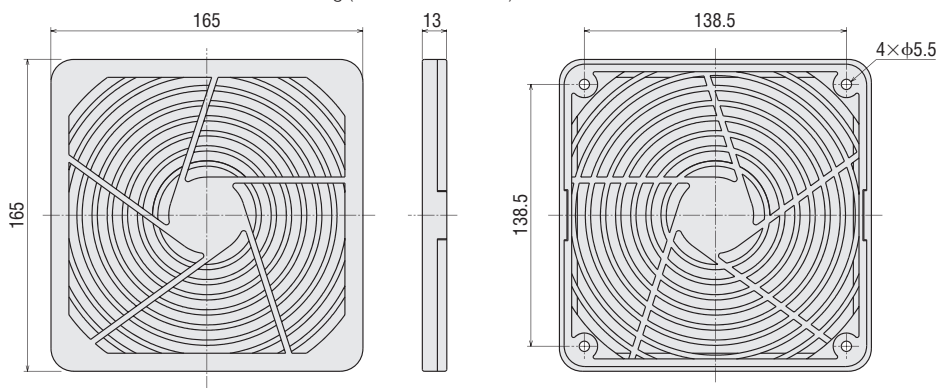
FL12..... for **EMU1238, MU1225, MU1238, MDS1225, MD1225, MDA1225** and **MDE1225**
 List Price €9.00 Mass: 46 g (Filter media: 20 PPI)



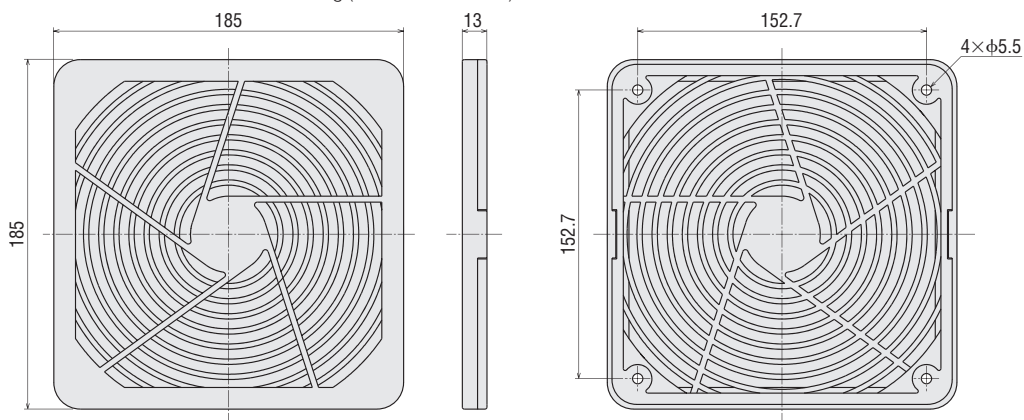
FL14..... for **MU1428, MDS1451, MDA1451** and **MDE1451**
 List Price €15.00 Mass: 92 g (Filter media: 30 PPI)



FL16..... for **MRE16**
 List Price €15.00 Mass: 126 g (Filter media: 30 PPI)



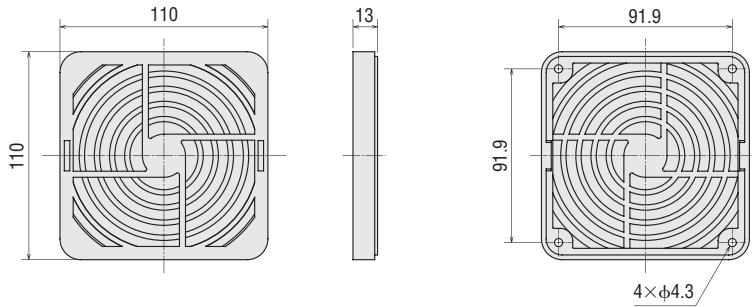
FL18..... for **MRE18**
 List Price €26.00 Mass: 165 g (Filter media: 30 PPI)



● Metallic Filters for Axial Flow Fans

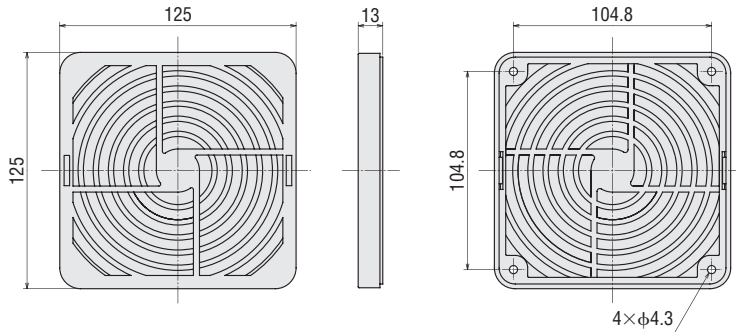
FLW10.....for MU1025

List Price €15.00 Mass: 86 g (Filter media: 30 mesh)



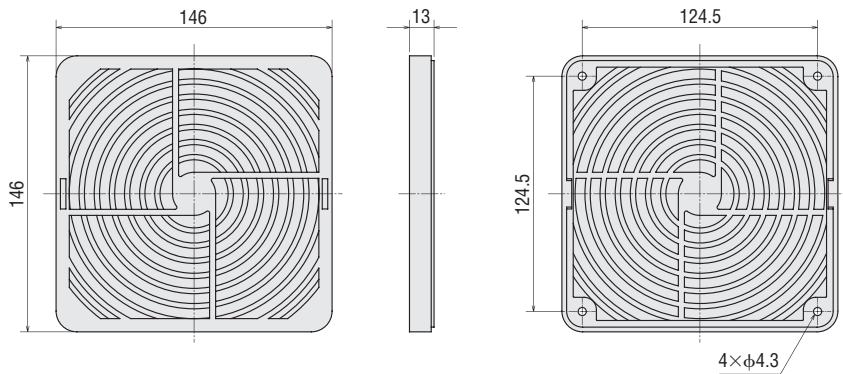
FLW12.....for EMU1238, MU1225, MU1238, MDS1225, MD1225, MDA1225 and MDE1225

List Price €15.00 Mass: 104 g (Filter media: 30 mesh)



FLW14.....for MU1428, MDS1451, MDA1451 and MDE1451

List Price €19.00 Mass: 130 g (Filter media: 30 mesh)



■ Replacement Filter Media

● Filter Medias for Filters

Product Name	List Price	Applicable Filter
FLM6	€31.00	FL6
FLM8	€32.00	FL8
FLM9	€33.00	FL9
FLM10	€33.00	FL10
FLM12	€33.00	FL12
FLM14	€35.00	FL14
FLM16	€35.00	FL16
FLM18	€36.00	FL18

● Filter Medias for Metallic Filters

Product Name	List Price	Applicable Filter
FLWM10	€11.00	FLW10
FLWM12	€11.00	FLW12
FLWM14	€14.00	FLW14

Note

- One package contains five filter media for filters.
- One package contains one filter media for metallic filters.
- When ordering, please specify the quantity by the number of packages.
- List price indicates the price with one package.

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MFD

Accessories

Installation

Screens

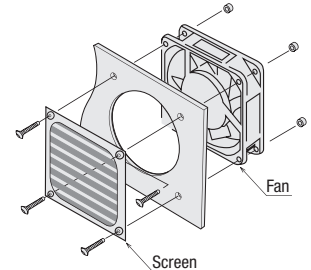
Fans are used to cool or ventilate electronic devices that may generate electromagnetic waves. These waves can escape from the fan cooling holes, causing interference to computers and measuring instruments.

The screens allow the passage of air, but block electromagnetic waves.

The screen is a durable magnetic shield using a stainless mesh fixed to an aluminum frame. Screens are easily attached to the fan using screws.

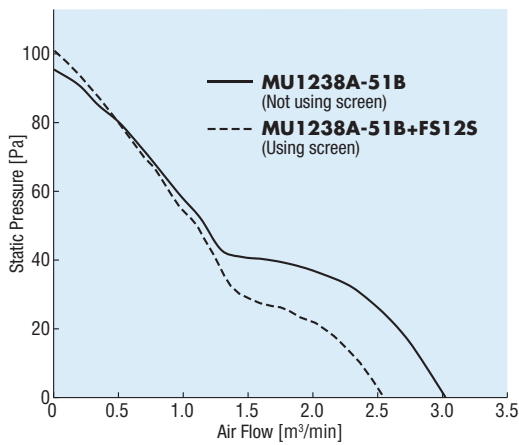


Installing the Screen



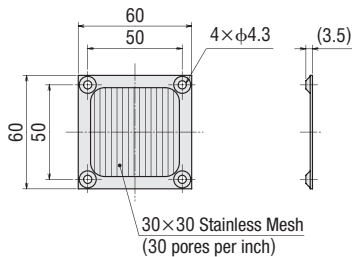
- Install from the flat side of the fan.
- To shut out electromagnetic waves, it is necessary to install such that there is no gap between the screen edges and the enclosure.

Example of Air Flow – Static Pressure Characteristics When Using a Screen

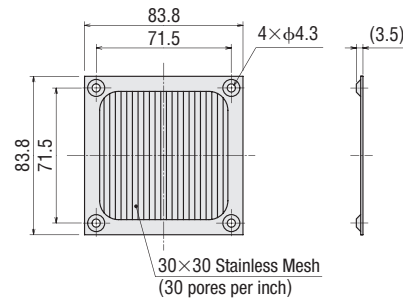


Dimensions Unit: mm

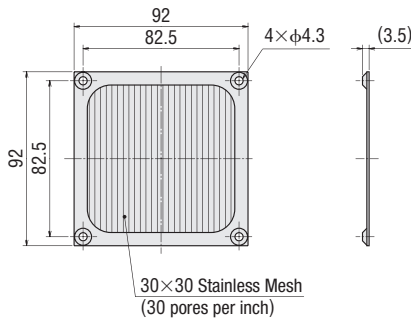
FS6S for **MD625** and **MDA625**
List Price €9.00 Mass: 7 g



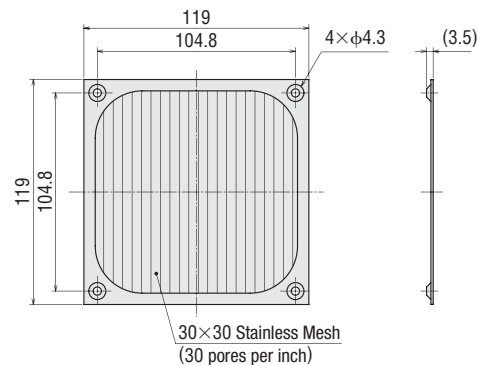
FS8S for **MU825**, **MD825** and **MDA825**
List Price €8.00 Mass: 15 g



FS9S for **MU925**, **MD925** and **MDA925**
List Price €8.00 Mass: 16 g



FS12S for **EMU1238**, **MU1225**, **MU1238**, **MDS1225**, **MD1225**, **MDA1225** and **MDE1225**
List Price €8.00 Mass: 24 g



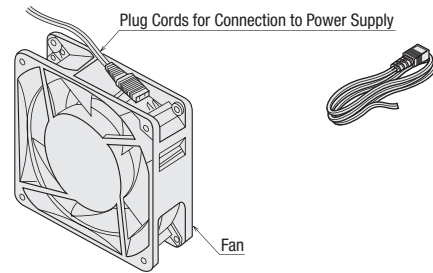
Plug Cords for Connection to Power Supply

This plug cord is for use with the **EMU** Series and **MU** Series fans, providing terminals for connection to the power supply.

Regulations & Standards: UL Standards, CSA Standards, Electrical Appliance and Material Safety Law



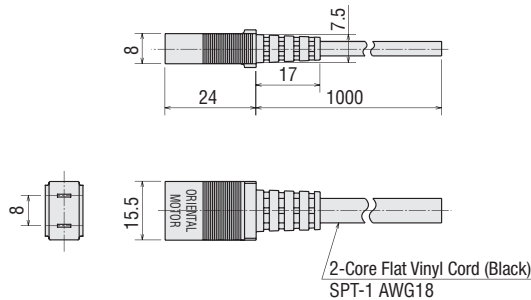
Connecting the Plug Cord



Dimensions Unit: mm

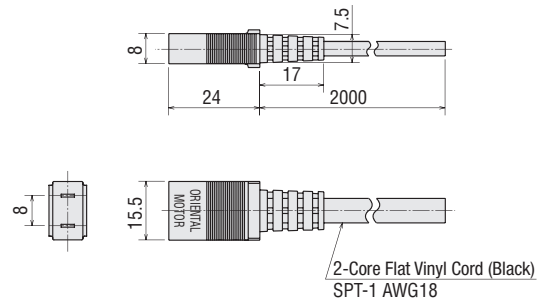
PCA2B..... 1 m

List Price €5.00



PCA2B2..... 2 m

List Price €7.00



Power Supply Cables

These cables are used to connect the **EMR** Series fans and the power supply.

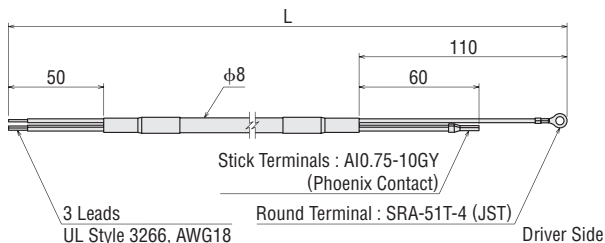
Product Line

Product Name	Power Supply Voltage	Length L (m)	List Price
CC01AC03N	Single-Phase 100-240 VAC	1	€11.00
CC02AC03N		2	€17.00
CC03AC03N		3	€22.00
CC01AC04N	Three-Phase 200-240 VAC	1	€11.00
CC02AC04N		2	€17.00
CC03AC04N		3	€22.00

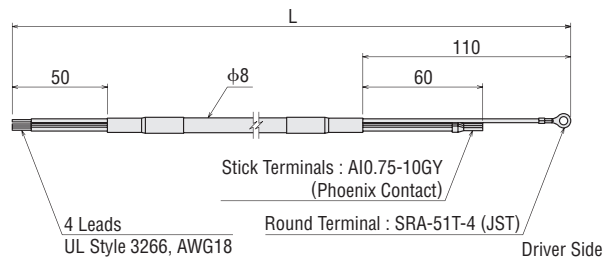


Dimensions Unit: mm

For Single-Phase



For Three-Phase



Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MGD

Accessories

Installation

External Speed Potentiometer

This is a potentiometer used for setting the speed of the **EMR** Series fan.

Product Line

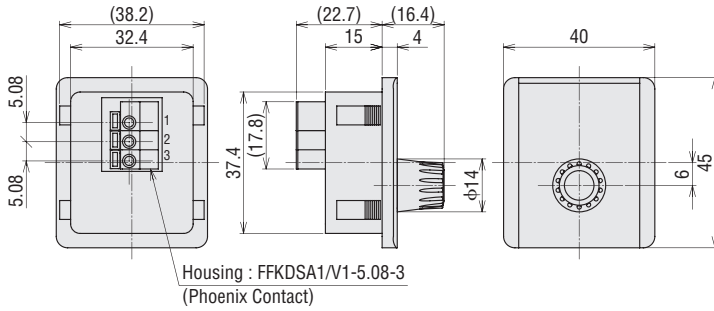
(0-20 kΩ 0.05 W, with a linear resistance vs. angle curve)

Product Name	List Price	Applicable Products
PAVR2-20K	€19.00	EMR Series



Dimensions Unit: mm

Mass: 25g



Panel Cut-Out

Thickness of the mounting plate: 1.5 to 3 mm

