

MIST  
CATCH

Non-filter  
oil mist  
collector

Electrostatic  
oil mist  
collector

Filter  
oil mist  
collector

Option

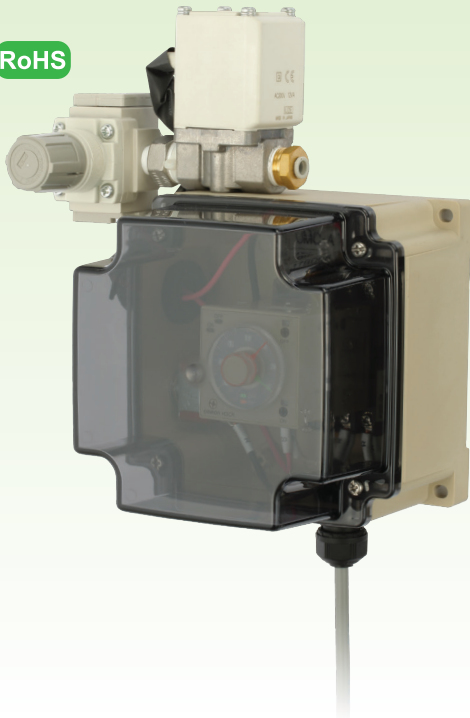
Auto-cleaning  
unit

Auto-cleaning unit for OMC-N2 series

# OMC-ATW-N21/N22

Wash dirt off the collection unit of OMC-N2 mist collector automatically.  
Drastically cut maintenance works!

RoHS



## Features

- ◆ Carries out cleaning without stopping mist collection.
  - ◆ Simply supply compressed air and tank water to use!  
No complicated water piping is required.
  - ◆ Switchable between AUTO mode and Manual mode.
- MANUAL

AUTO

◆ AUTO ... Sprays water for 20 seconds every three hours  
(Factory setting)  
Spraying time and interval are variable.
- MANUAL

AUTO

◆ MANUAL ... Sprays water continuously for heavy dirt
- ◆ Can be installed independently of MISTCATCH.  
This makes easy to change setting with the unit at hand irrelevant where MISTCATCH is mounted.

## Model/Specifications

Model	OMC-ATW-N21	OMC-ATW-N22
Rated voltage *1	Single phase, 200VAC, 50/60Hz	Single phase, 220VAC, 50/60Hz
Rated power consumption	14W	
For use with	OMC-N2xx、OMC-N2xxH	
Operation mode	<ul style="list-style-type: none"> <li>• AUTO (Factory setting: Water injection for 20 seconds every three hours)</li> <li>• MANUAL (Continuous water injection)</li> </ul>	
Spraying time	20 to 40 seconds (Factory setting: 20 sec.)	
Standby time	0 to 30 hours (Factory setting: 3 hours)	
Spraying amount *2	Approx. 0.6ml/ sec (at 1m lift height)	
Power source for spraying	Compressed air	
Supply air pressure	0.3 to 0.8MPa	
Max. lift height	2m	
Washing liquid	Water, 0 to +40°C, ice-free	
Power cable	3m	
Working temperature	0 to +40°C, ice-free	
Working humidity	35 to 85%RH, condensation-free	
Standard accessory	ø6mm tube (Blue) 4m, ø8mm tube (Black) 4m, 5 liter tank, M4 screw / 2pcs., Instruction manual 1 copy	

\*1. Please consult us for products rated to other supply voltages than 200V/220V.

\*2. The higher the lift height is, the smaller the water spraying amount becomes.

### ⚠ Caution

- Be sure to read the instruction manual carefully before use.
- Avoid using this product at a place where it is largely affected by vibration or impact or a place where it is exposed to water or oil.
- Working environment should be within the temperature range from 0 to 40 deg.C with humidity range from 35 to 85%RH, free from condensation.
- Supply the rated voltage only.
- Electrical connection should be done via an appropriate circuit breaker.
- Do not use this product with other mist collectors than our OMC-N2 series.
- Apply one product to one MISTCATCH OMC-N2. Connecting to two or more units can be a cause of failure.
- Electric works required for installation should be done by professionals or qualified personnel.
- Be sure to check that the package is not damaged when delivered. Any damage on packing may lead to product failure.  
Please contact your supplier if any damage is found.

## Mechanism

1

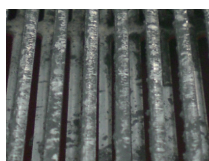
Water is sprayed from the center of the collection unit.

2

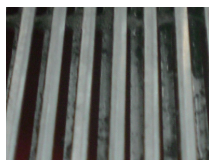
Inside the MISTCATCH, droplets accelerate the speed and collide against the inner wall of the collection unit.

3

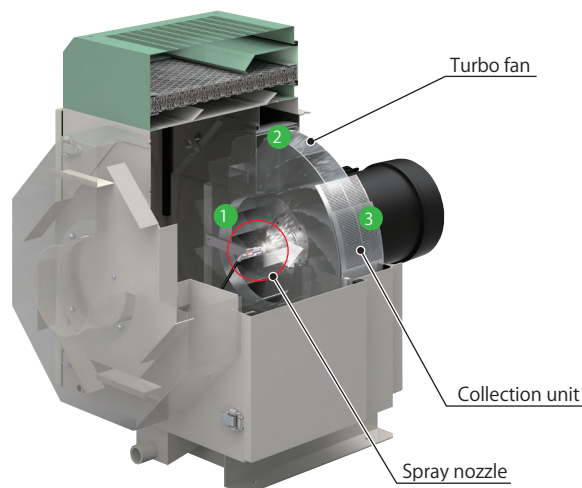
By washing off the collection unit periodically, dirt accumulation is prevented.



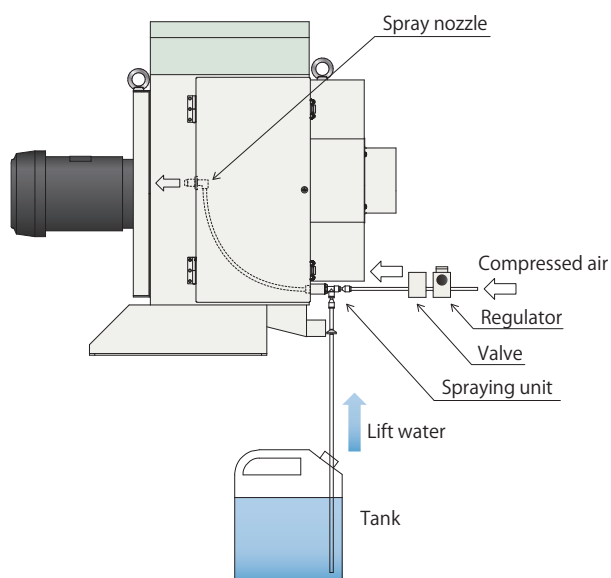
Before



After

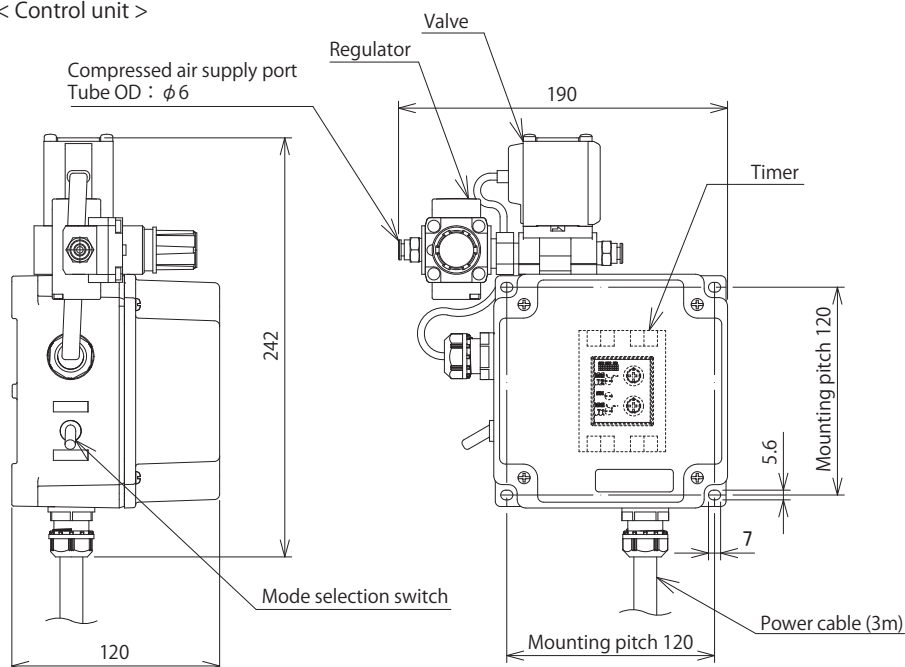


## System configuration

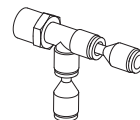


## Outline drawing

< Control unit >



< Spraying unit >



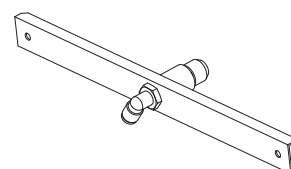
< Check valve >



< Quick coupling >



< Spray nozzle >



## OPTION 1

# Option for OMC-N2 series

MIST CATCH

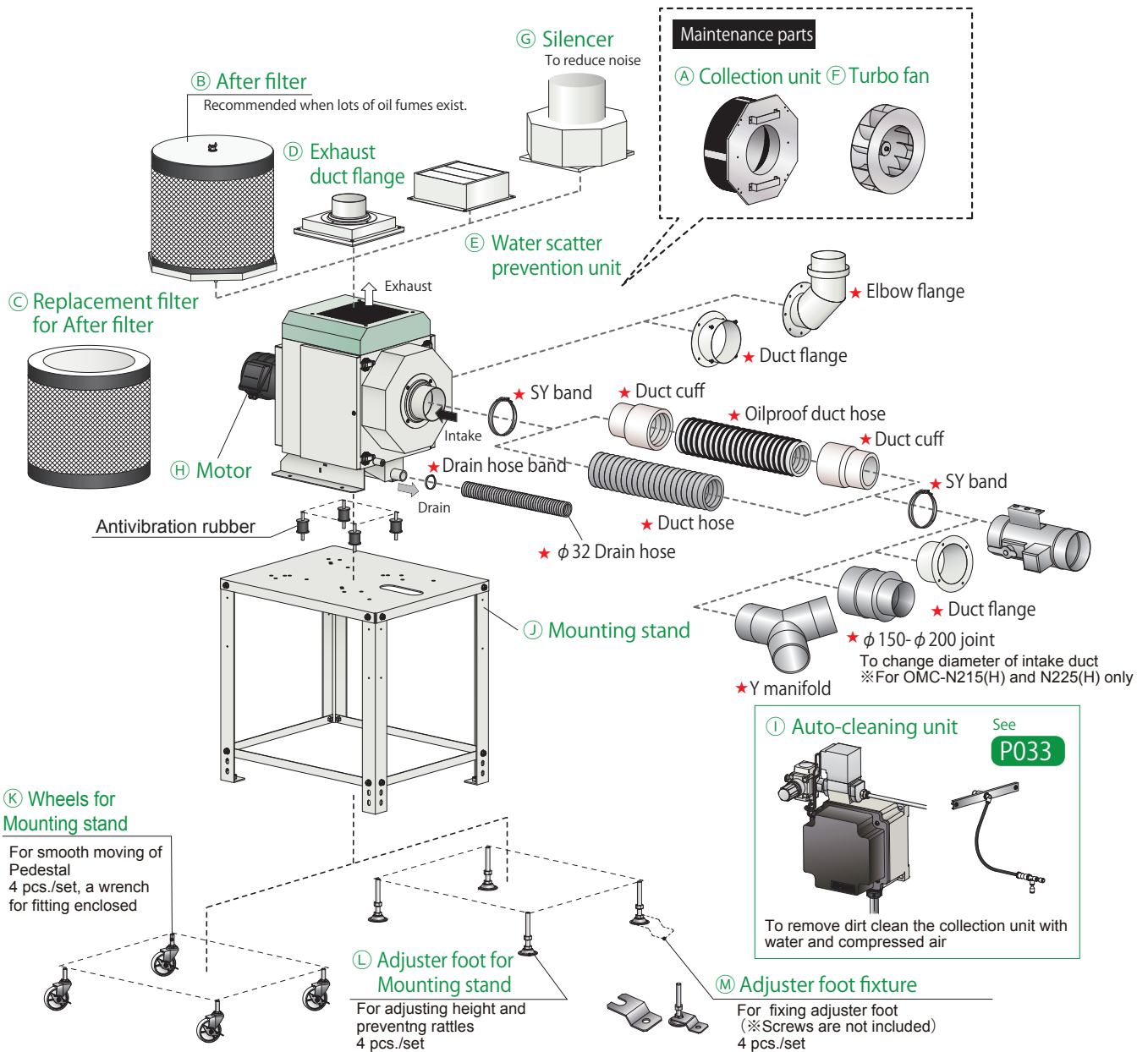
Non-filter oil mist collector

Electrostatic oil mist collector

Filter oil mist collector

Option

Auto-cleaning unit



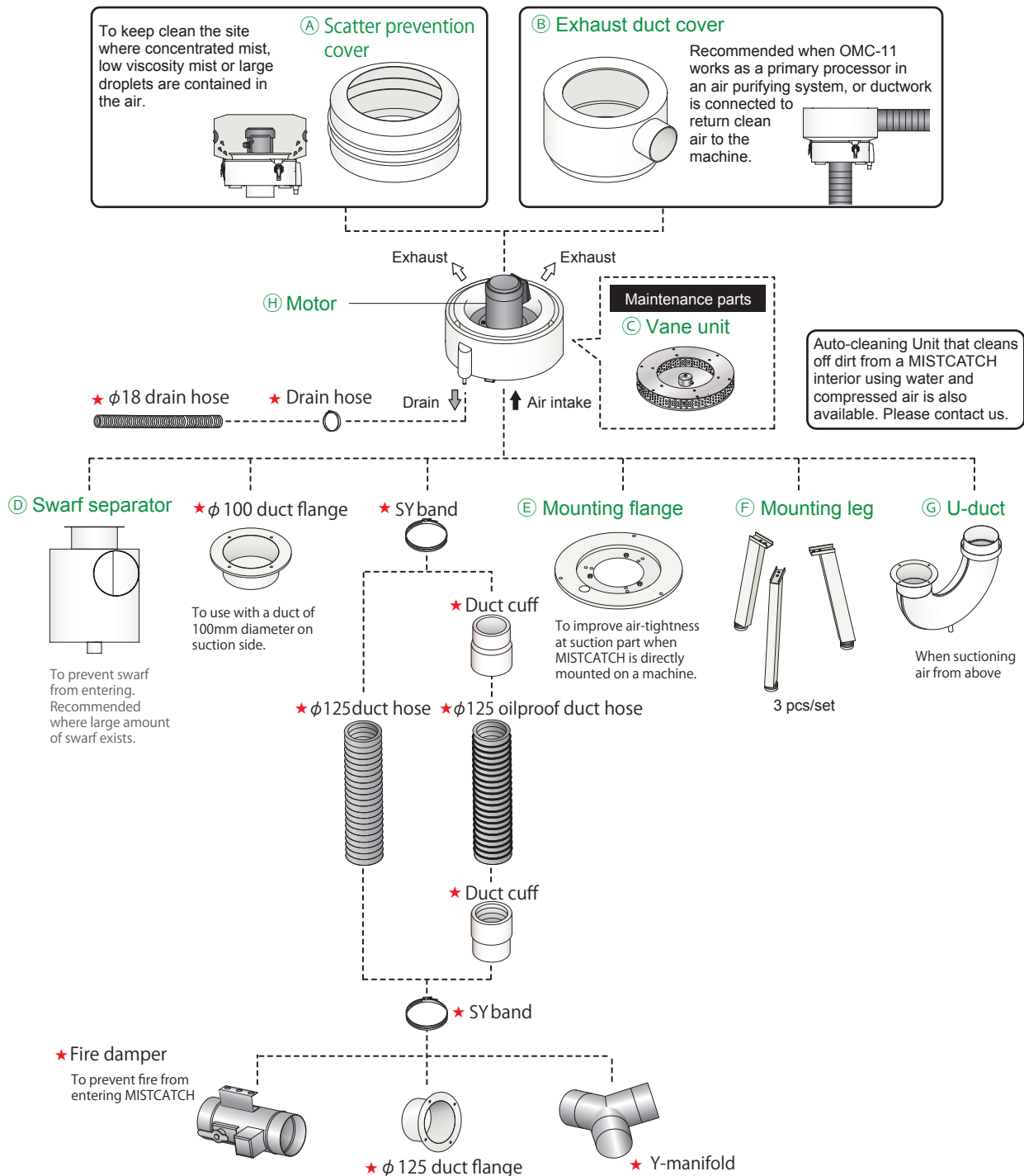
\*For the items marked with ★, see pages 041 and 042

### Option list

Part name	MISTCATCH model							
	OMC-N205	OMC-N205H	OMC-N210	OMC-N210H	OMC-N215	OMC-N215H	OMC-N225	OMC-N225H
(A) Collection unit	OMC-N205-CU12	OMC-N205-CU11	OMC-N210-CU12	OMC-N210-CU11	OMC-N215-CU12	OMC-N215-CU11	OMC-N225-CU12	OMC-N225-CU11
(B) After filter	OMC-N205-F40		OMC-N210-F40		OMC-N215-F40		OMC-N225-F40	
(C) Replacement filter for AF	OMC-AF-335L				OMC-AF-500L			
(D) Exhaust duct flange	OMC-N105-HDF100		OMC-N110-HDF125		OMC-N115-HDF150		OMC-N125-HDF200	
(E) W scatter prevention cover	OMC-N205-WU		OMC-N210-WU		OMC-N215-WU		OMC-N225-WU	
(F) Turbo fan	OMC-N105-TF1		OMC-N110-TF1		OMC-N115-TF1		OMC-N125-TF1	
(G) Silencer	OMC-N205-SLC2		OMC-N210-SLC2		OMC-N215-SLC2		OMC-N225-SLC2	
(H) Motor	OMC-N205-M40		OMC-N210-M75		OMC-N215-M150		OMC-N225-M220	
(I) Auto-cleaning unit	OMC-ATW-N21 (Single phase, 200VAC 50/60Hz)/OMC-ATW-N22 (Single phase, 220VAC 50/60Hz)							
(J) Mounting stand	OMC-PDS01						OMC-PDS02	
(K) Wheels for Mounting stand	OMC-PDS01-CAS							
(L) Adjuster foot (for Mtg. stand)	OMC-PDS01-AJF							
(M) Adjuster foot fixture	OMC-PDS01-AJF-ST							

**OPTION 2**

# Option for OMC-11



\*For the items marked with ★, see pages 041 and 042.

**Option list**

Part name	Part number
(A) Scatter prevention cover	OMC-027-4X
(B) Exhaust duct cover	OMC-027-5X1
(C) Vane unit	OMC-026-1
(D) Swarf separator	OMC-033-1
(E) Mounting flange	OMC-028-1
(F) Mounting leg	OMC-024-2
(G) U-duct	OMC-020-2
(H) Motor	OMC-M01

## OPTION 3

# Option for OMC-E3 series

Non-filter oil mist collector

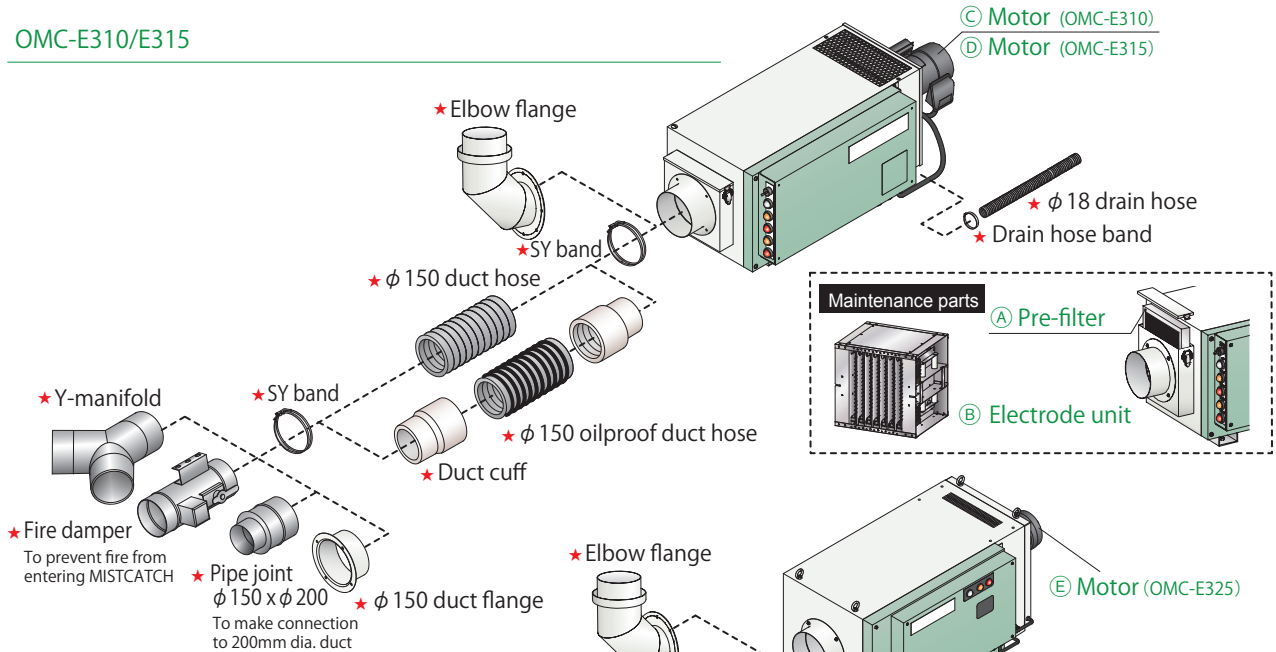
Electrostatic oil mist collector

Filter oil mist collector

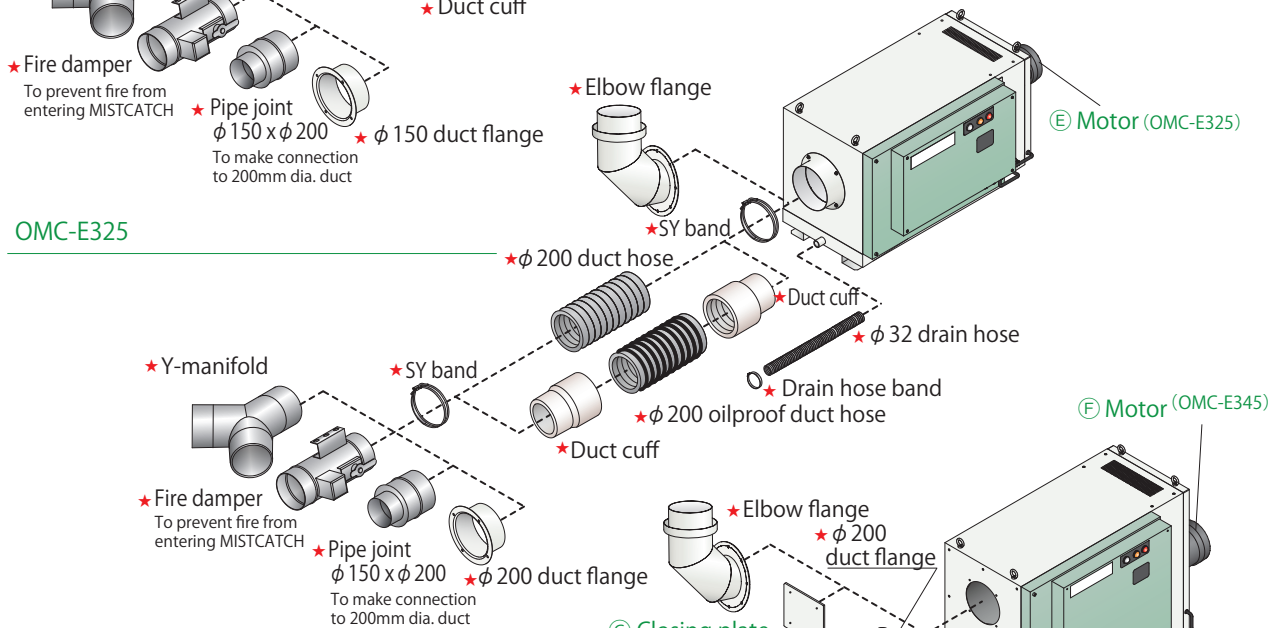
Option

Auto-cleaning unit

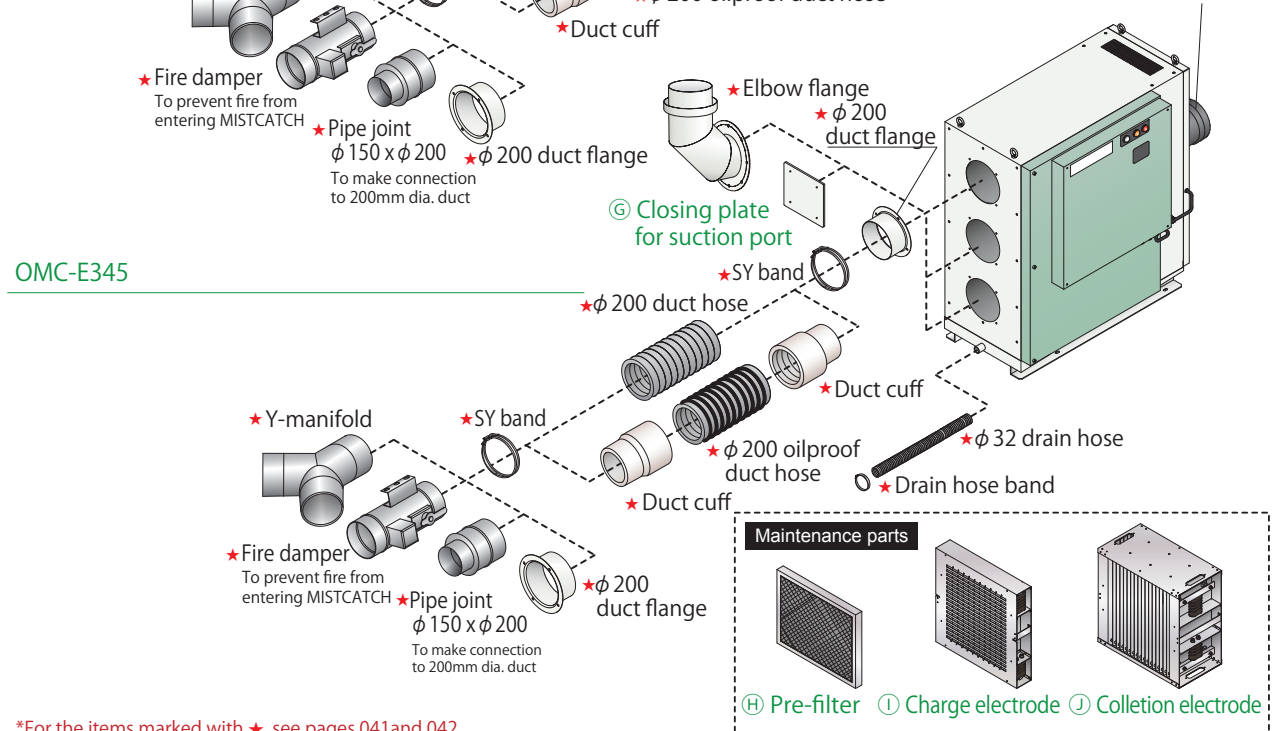
### OMC-E310/E315



### OMC-E325



### OMC-E345



\*For the items marked with ★, see pages 041 and 042.

### Option list

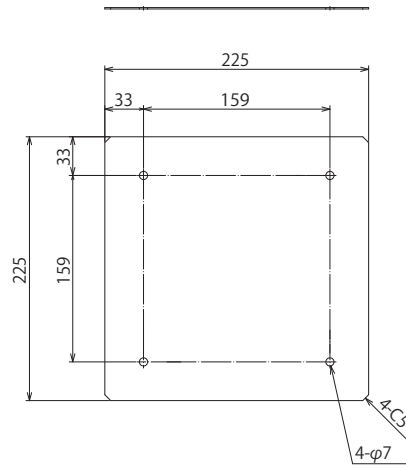
Part name	Part number
Ⓐ Pre-filter	OMC-E043-1
Ⓑ Electrode unit	OMC-E026-1
Ⓒ Motor (OMC-E310)	OMC-M01
Ⓓ Motor (OMC-E315)	OMC-N205-M40
Ⓔ Motor (OMC-E325)	OMC-N210-M75

Part name	Part number
Ⓕ Motor (OMC-E345)	OMC-N215-M150
Ⓖ Closing plate for suction port	OMC-E047-1
Ⓗ Pre-filter	OMC-E046-1
Ⓙ Charge electrode	OMC-E044-1
Ⓚ Collection electrode	OMC-E045-1



■ Outline drawing

Ⓒ Closing plate for suction port

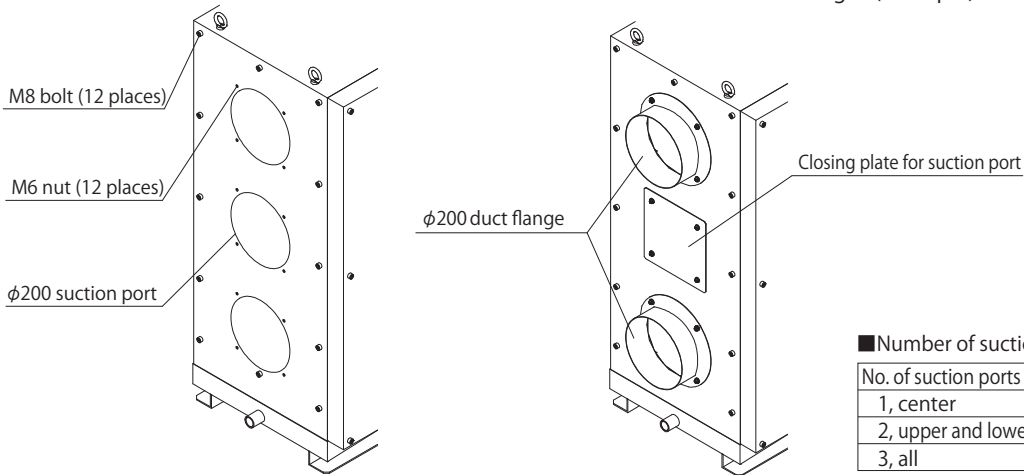


● Intake piping for OMC-E345

OMC-E345 has three suction ports of  $\phi 200$  to enable up to three duct hose connections as necessary. No flanges are provided for these ports. Please purchase the necessary number of  $\phi 200$  dust flange (part no. OMC-DF200) for hose connection. For fixing duct flange(s) or closing unused port(s), 12 M6 screws are necessary (not included in the supply). When you fabricate an original duct flange like an example illustrated below, secure it with 12 M8 bolts using the holes provided.

To prevent oil leaks, apply a caulking agent on the mounting surface of the flange(s). The jointed parts of pipes should also be sealed around in case there is a risk of leak.

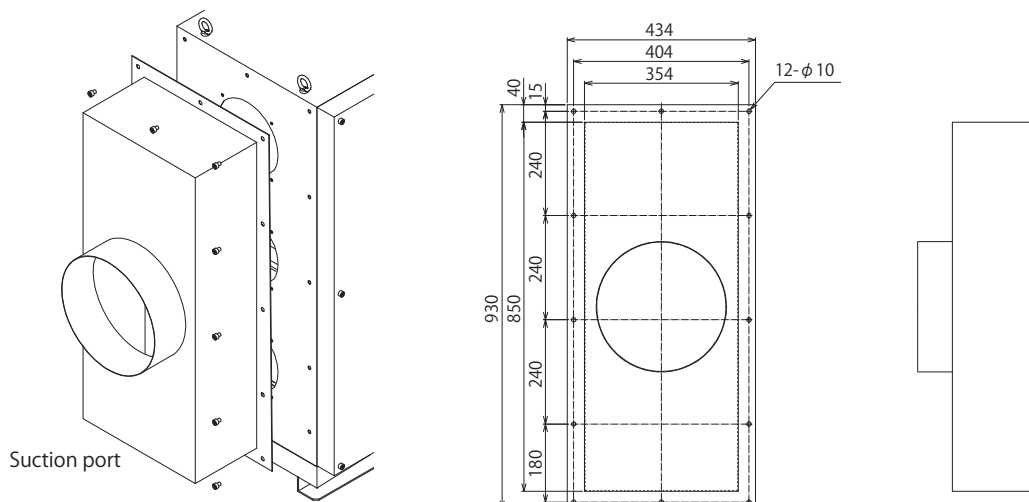
■ Attachment of duct flanges (example)



■ Number of suction ports and max. airflow

No. of suction ports	Max. airflow (50/60Hz)
1, center	32/39 m <sup>3</sup> /min
2, upper and lower	40/45 m <sup>3</sup> /min
3, all	40/45 m <sup>3</sup> /min

■ Example of suction port configuration



## OPTION 4

# Option for OMC-E21

MIST  
CATCH

Non-filter  
oil mist  
collector

Electrostatic  
oil mist  
collector

Filter  
oil mist  
collector

Option

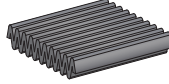
Auto-cleaning  
unit

### (A) Deodorant filter box



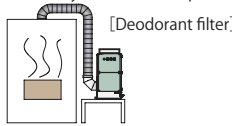
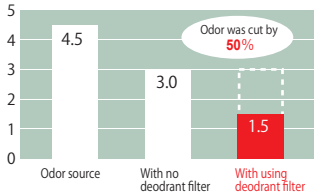
Activated carbon kneaded in the filter powerfully eliminates odor.

### (B) Replacement deodorant filter



### ● Deodorizing power

The following shows the comparison data of odor intensity at the exhaust port of OMC-E21 [Odor intensity]



[Ref.] 6-level odor intensity scale

0	No odor
1	Very weak
2	Weak
3	Distinct
4	Strong
5	Very strong

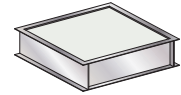
※The above are resulted from our in-house test.  
Actual deodorizing effect is subject to individual condition.

### (C) Exhaust filter box



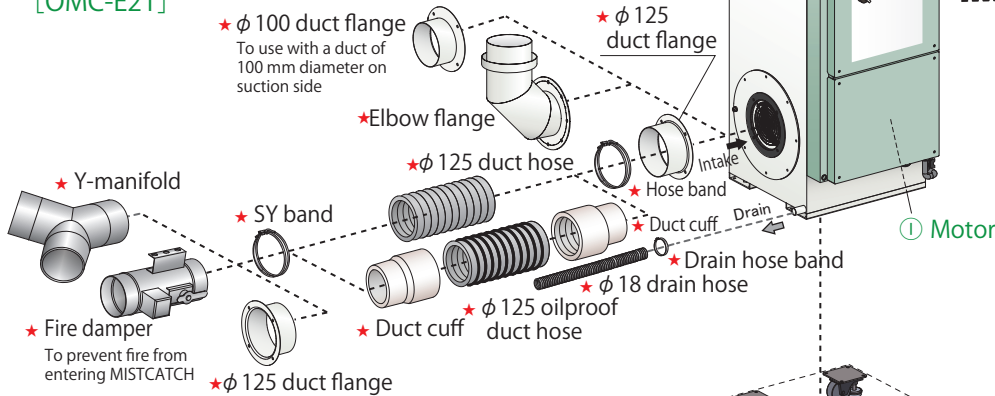
Fine particles escaped from the preceding process are caught by this filter.

### (D) Replacement exhaust filter



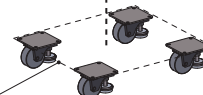
Replacement filter

### [OMC-E21]



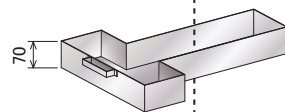
### (G) Wheels with adjuster foot

Makes it easy to move MISTCATCH as well as preventing rattling  
4 ps/set, fixing bolts enclosed



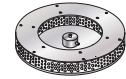
### (H) Drain pan

※Creates neat look by using with the Wheels

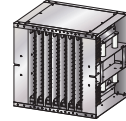


### Maintenance parts

#### (E) Vane unit



#### (F) Electrode unit



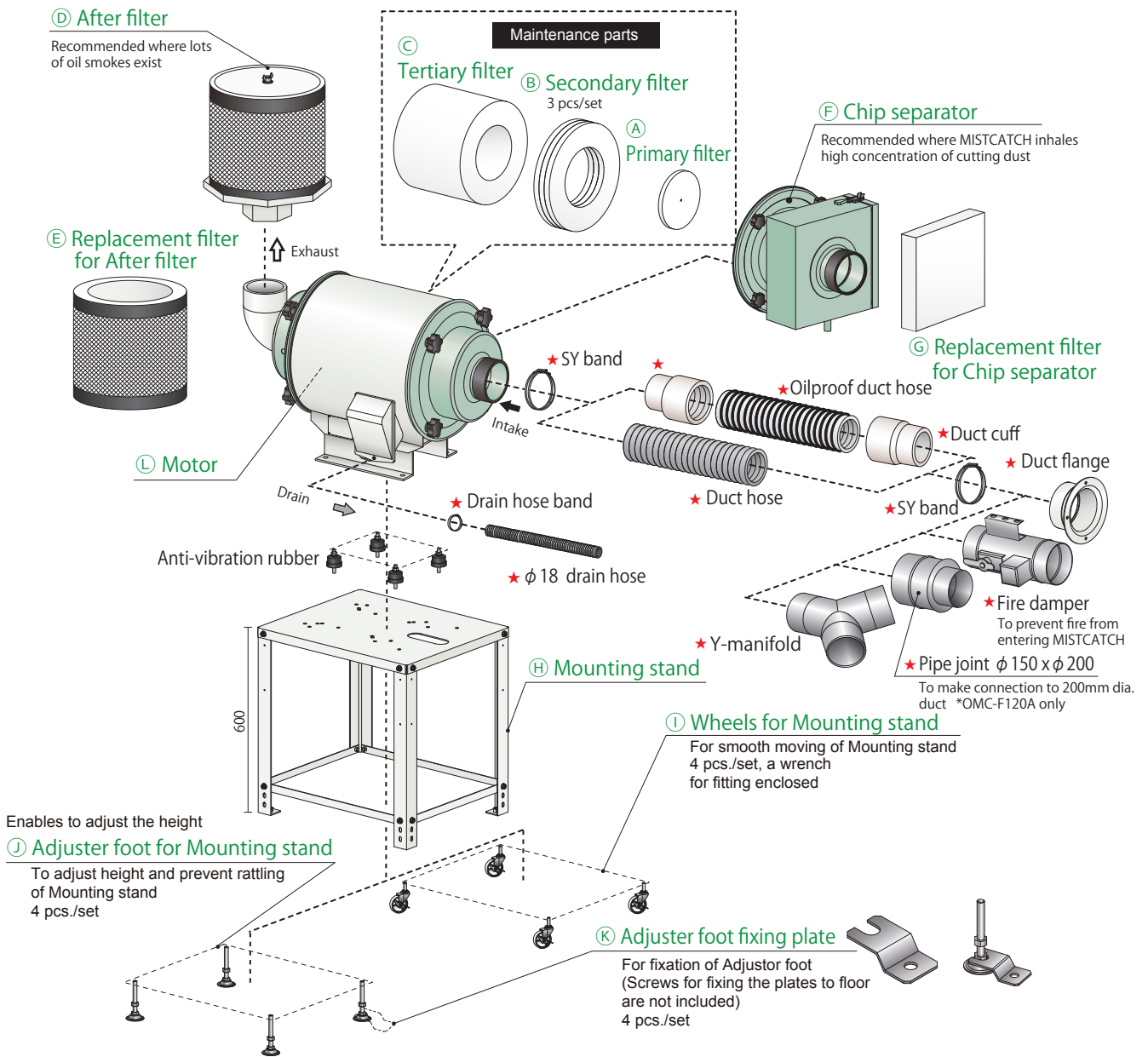
\*For the items marked with ★, see pages 041 and 042.

### Option list

Part name	Part number
(A) Deodorant filter box	OMC-E041-1
(B) Replacement deodorant filter	OMC-E042-1
(C) Exhaust filter box	OMC-E040-1
(D) Replacement exhaust filter	OMC-E2727-65-1
(E) Vane unit	OMC-026-1
(F) Electrode unit	OMC-E026-1
(G) Wheels with adjuster foot	OMC-E033-1
(H) Drain pan	OMC-E032-1
(I) Motor	OMC-M01

**OPTION 5**

**Option for OMC-F series**



\*For the items marked with ★, see pages 041 and 042.

**Option list**

Part name	Part number		
	for OMC-F105A	for OMC-F110A	for OMC-F120A
Ⓐ Primary filter	OMC-F105-F10	OMC-F110-F10	OMC-F120-F10
Ⓑ Secondary filter	OMC-F105-F20	OMC-F110-F20	OMC-F120-F20
Ⓒ Tertiary filter	OMC-F105-F30	OMC-F110-F30	OMC-F120-F30
Ⓓ After filter	OMC-F105-F40-2	OMC-F110-F40-2	OMC-F120-F40-2
Ⓔ Replacement filter for After filter	OMC-AF-335L		OMC-AF-500L
Ⓕ Chip separator	OMC-F105A-CS	OMC-F110A-CS	OMC-F120A-CS
Ⓖ Replacement filter for Chip separator	OMC-F105-CS-F00	OMC-F110-CS-F00	OMC-F120-CS-F00
Ⓧ Mounting stand	OMC-PDS01		
Ⓨ Wheels for Mounting stand	OMC-PDS01-CAS		
Ⓩ Adjuster foot for Mounting stand	OMC-PDS01-AJF		
Ⓩ Adjuster foot fixing plate	OMC-PDS01-AJF-ST		
Ⓛ Motor	OMC-F105-M40	OMC-F110-M75	OMC-F120-M150

Option >> OMC-E21/OMC-F series



## OPTION 6

# Common parts

MIST  
CATCH

Non-filter  
oil mist  
collector

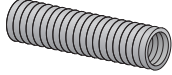

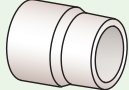


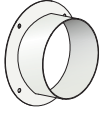
Electrostatic  
oil mist  
collector

Filter  
oil mist  
collector

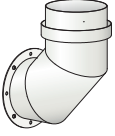
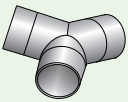
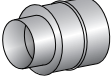
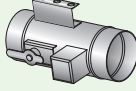


Option

Auto-cleaning  
unit

Compatibility table

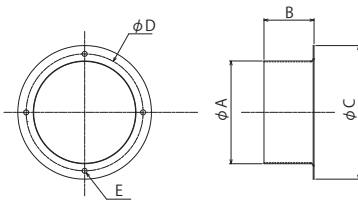
	Part name	Part number	Specification	N205 (H)	N210 (H)	N215 (H)	N225 (H)	11	E310	E315	E325	E345	E21	F105 A	F110 A	F120 A	
	Duct hose	OMC-DH100	φ 100×5m	✓										✓			
		OMC-DH125	φ 125×5m		✓			✓						✓	✓		
		OMC-DH150	φ 150×5m			✓			✓	✓							✓
		OMC-DH200	φ 200×5m				✓					✓	✓				
	Oilproof duct hose	OMC-DH100-T1	φ 100×1m	✓										✓			
		OMC-DH100-T2	φ 100×2m	✓											✓		
		OMC-DH100-T3	φ 100×3m	✓											✓		
		OMC-DH100-T4	φ 100×4m	✓											✓		
		OMC-DH100-T5	φ 100×5m	✓											✓		
		OMC-DH100-T10	φ 100×10m	✓											✓		
		OMC-DH100-T30	φ 100×30m	✓											✓		
		OMC-DH125-T1	φ 125×1m		✓				✓					✓		✓	
		OMC-DH125-T2	φ 125×2m		✓				✓					✓		✓	
		OMC-DH125-T3	φ 125×3m		✓				✓					✓		✓	
		OMC-DH125-T4	φ 125×4m		✓				✓					✓		✓	
		OMC-DH125-T5	φ 125×5m		✓				✓					✓		✓	
		OMC-DH125-T10	φ 125×10m		✓				✓					✓		✓	
		OMC-DH125-T20	φ 125×20m		✓				✓					✓		✓	
		OMC-DH150-T1	φ 150×1m			✓				✓	✓						✓
		OMC-DH150-T2	φ 150×2m			✓				✓	✓						✓
		OMC-DH150-T3	φ 150×3m			✓				✓	✓						✓
		OMC-DH150-T4	φ 150×4m			✓				✓	✓						✓
		OMC-DH150-T5	φ 150×5m			✓				✓	✓						✓
		OMC-DH150-T10	φ 150×10m			✓				✓	✓						✓
		OMC-DH150-T20	φ 150×20m			✓				✓	✓						✓
		OMC-DH200-T1	φ 200×1m					✓				✓	✓				
		OMC-DH200-T2	φ 200×2m					✓				✓	✓				
		OMC-DH200-T3	φ 200×3m					✓				✓	✓				
		OMC-DH200-T4	φ 200×4m					✓				✓	✓				
		OMC-DH200-T5	φ 200×5m					✓				✓	✓				
		OMC-DH200-T10	φ 200×10m					✓				✓	✓				
		OMC-DH200-T20	φ 200×20m					✓				✓	✓				
	Duct cuff for oilproof duct hose	OMC-CFS100	φ 100	✓										✓			
		OMC-CFS125	φ 125		✓			✓					✓	✓			
		OMC-CFS150	φ 150			✓			✓	✓							✓
		OMC-CFS200	φ 200				✓				✓	✓					
	SY band	OMC-HB100-SY	φ 100	✓										✓			
		OMC-HB125-SY	φ 125		✓			✓					✓	✓			
		OMC-HB150-SY	φ 150			✓			✓	✓							✓
		OMC-HB200-SY	φ 200				✓				✓	✓					
	Drain hose band	OMC-HB025	φ 16 ~ 25					✓	✓	✓			✓	✓	✓	✓	
		OMC-HB050	φ 25 ~ 40	✓	✓	✓	✓				✓	✓					
	Duct flange	OMC-DF100	φ 100(duct) 4-φ6 90°φ140 (Mtg hole)	✓	✓			✓					✓				
		OMC-DF125	φ 125(duct) 4-φ6 90°φ140 (Mtg hole)	✓	✓			✓					✓				
		OMC-DF125-P175	φ 125(duct) 4-φ6 90°φ175 (Mtg hole)			✓											
		OMC-DF150	φ 150(duct) 4-φ6 90°φ175 (Mtg hole)			✓			✓	✓							
		OMC-DF 200	φ 200(duct) 4-φ8 90°φ225 (Mtg hole)				✓					✓	✓				

Compatibility table

	Part name	Model	Specification	N205 (H)	N210 (H)	N215 (H)	N225 (H)	11	E310	E315	E325	E345	E21	F105 A	F110 A	F120 A	
	Elbow flange	OMC-EF100	φ100 (duct) 8-φ6 45°φ140(mtg.hole)	✓	✓								✓				
		OMC-EF125	φ125 (duct) 8-φ6 45°φ140(mtg.hole)	✓	✓									✓			
		OMC-EF150	φ150 (duct) 8-φ6 45°φ175(mtg.hole)			✓			✓	✓							
		OMC-EF 200	φ200 (duct) 8-φ8 45°φ225(mtg.hole)				✓				✓	✓					
	Y-manifold	OMC-Y 100	φ100	✓										✓			
		OMC-Y125	φ125		✓				✓					✓		✓	
		OMC-Y150	φ150			✓			✓	✓							✓
		OMC-Y150-100	φ150 ×1+φ100×2			✓			✓	✓							✓
		OMC-Y 200-125	φ200×1+φ125×2				✓					✓	✓				
	Pipe joint φ150-φ200	OMC-J200	φ150-φ200			✓	✓		✓	✓	✓	✓				✓	
	Fire damper	FDB100KX	φ100	✓										✓			
		FDB125KX	φ125		✓				✓					✓		✓	
		FDB150KX	φ150			✓				✓	✓						✓
		FDB200KX	φ200				✓					✓	✓				
	Breaker MMS	BM3RSR-1P6	1.0-1.6A					✓	✓								
		BM3RSR-2P5	1.6-2.5A	✓							✓			✓	✓		
		BM3RSR-004	2.5-4.0A		✓							✓				✓	
		BM3RSR-6P3	4.0-6.3A			✓							✓				✓
		BM3RSR-010	6.3-10.0A				✓										
		Enclosure BZ0CSLB		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Drain hose	OMC-MDH1802	φ18×2m					✓	✓	✓			✓	✓	✓	✓	
		OMC-MDH1805	φ18×5m						✓	✓	✓			✓	✓	✓	✓
		OMC-MDH1810	φ18×10m						✓	✓	✓			✓	✓	✓	✓
		OMC-MDH3202	φ32×2m	✓	✓	✓	✓					✓	✓				
	Washing agent	Super Alsat K99		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				

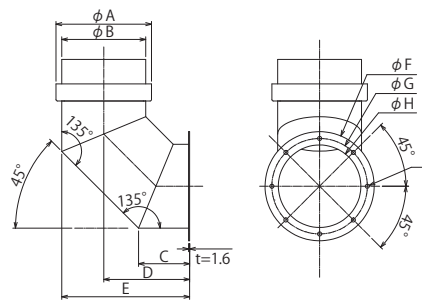
Outline drawing

Duct flange



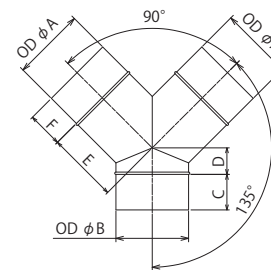
Part No.	A	B	C	D	E
OMC-DF100	98	60	160	140	4-φ6
OMC-DF125	123	60	160	140	4-φ6
OMC-DF125-P175	123	75	200	175	4-φ6
OMC-DF150	148	75	200	175	4-φ6
OMC-DF200	198	75	250	225	4-φ8

Elbow flange



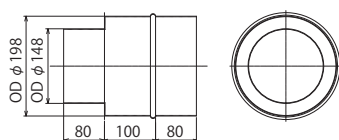
Part No.	A	B	C	D	E	F	G	H	I
OMC-EF100	120	98	55	105	154	160	140	96	8-φ6
OMC-EF125	140	123	75	126	187.5	160	140	121	8-φ6
OMC-EF150	170	148	95	170	245	200	175	148	8-φ6
OMC-EF200	220	198	105	171	270	250	225	198	8-φ8

Y-manifold

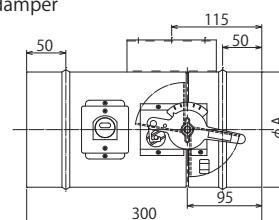


Part No.	A	B	C	D	E	D
OMC-Y100	98	98	60	40	100	60
OMC-Y125	123	123	60	45	120	60
OMC-Y150	148	148	80	50	124	80
OMC-Y150-100	98	148	80	55	151	60
OMC-Y200-125	123	198	80	75	215	60

Pipe joint φ150xφ200



Fire damper



Part No.	A
FDB100KX	97
FDB125KX	122
FDB150KX	147
FDB200KX	197

Option >> Common parts



Distributor \_\_\_\_\_



**OHM ELECTRIC CO., LTD.**

7000-21, Nakagawa, Hosoe, Kita-ku, Hamamatsu, Shizuoka 431-1304, JAPAN  
TEL +81-53-522-5562 FAX +81-53-523-2362  
E-mail : info@ohm.co.jp

[www.ohm.jp/](http://www.ohm.jp/)



Please read the enclosed instruction manual carefully before use.

- Actual colors may vary from the pictures shown in this catalog due to printing restrictions.
- The contents of this catalog are subject to change without prior notice for product improvements.
- The contents of this catalog is as of November 2017.