

Oil mist filter Outdoor series

# MW3000/MW4000/MW8000-W Series

A series of outdoor specification products.

● Port size: 1/4 to 1

JIS symbol



## Specifications

Item	MW3000-W	MW4000-W	MW8000-W
Working fluid	Compressed air		
Working pressure MPa	0.1 to 1.0 *2		
Proof pressure MPa	1.5		
Drain capacity cm <sup>3</sup>	45	80	80
Port size Rc,NPT, G	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1
Weight kg	0.38	0.62	1.45

## Option weight

\* Add to the weight of the standard accessories. Unit: kg

Code	Drain discharge	Attachment
	F1	BW
MW3000	0.02	0.17
MW4000	0.02	0.21
MW8000	0.02	0.36

Mantle option name		Blank (M type)	S (S type)
Max. processing flow rate *1	MW3000-□W	360	450
l/min (ANR)	MW4000-□W	825	1000
Primary pressure 0.7 MPa/hour	MW8000-□W	2600	2900
Fluid temperature °C	-20 to 60(no freezing)		
Ambient temperature °C	-20 to 60		
Filtration rating μm	0.01 (nominal)		
Secondary side oil concentration mg/m <sup>3</sup>	0.01 or less (0.1 or less after oil saturation) *3, *4		
Mantle (element) change	1 year (6000 hours) or pressure drop 0.1 MPa		

\*1: Use within the max. processing flow rate. If the max. processing flow rate is exceeded temporarily, or if the filter is installed at a location with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in a terminal malfunction.

\*2: In the case of "F1" with auto-drain, the min. working pressure is 0.15 MPa.

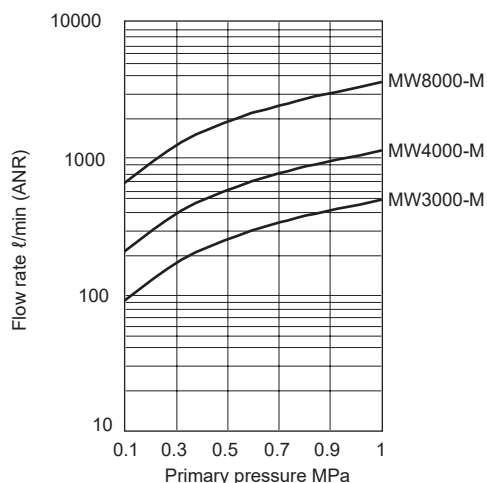
\*3: The secondary oil concentration is the value when the primary oil concentration is 30 mg/m<sup>3</sup> and inlet air temperature is 21°C.

\*4: Install an oil mist filter (S type) as a pre-filter on the primary side to prevent early clogging.

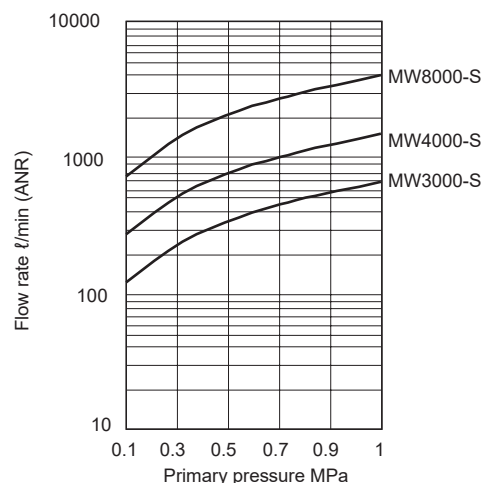
\*5: In the case of "F1" with auto-drain, be careful of freezing the drain.

## Flow characteristics (max. processing flow rate)

● MW\*000-W-M



● MW\*000-W-S



# Oil Mist Filter Series

How to order/Internal structure diagram and parts list

## How to order

**MW3000** - **8** - **W** - **S** -

**A** Model No.

**B** Port size

**C** Port thread

**D** Option

**E** Other attachments

**A** Model No.

MW3000  
MW4000  
MW8000

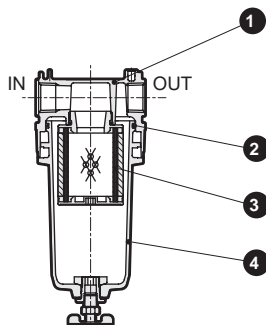
Code	Description				
B Port size					
8	1 / 4	●	●		
10	3 / 8	●	●		
15	1 / 2		●		
20	3 / 4			●	
25	1			●	
C Port thread					
		*1, *2			
Blank	Rc thread (pressure unit: MPa temperature display unit: °C)	●	●	●	
N	NPT thread (pressure unit: psi temperature display unit: °F)	●	●	●	
G	G thread (pressure unit: bar temperature display unit: °C)	●	●	●	
D Option					
		*3			
Drain discharge *4 *5	Blank	With manual cock	●	●	●
	F1	Auto-drain with manual override (NC: No exhaust w/o pressurization))	●	●	●
Mantle (Element)	Blank	M type (nominal 0.01 μm; remaining oil 0.01mg/m <sup>3</sup> )	●	●	●
	S	S type (nominal 0.3 μm; remaining oil 0.5mg/m <sup>3</sup> )	●	●	●
guarantee period	Blank	1 year after delivery	●	●	●
	G	3 years after delivery (with inspection certificate, inspection guidelines, traceability system diagram) *6, *7	●	●	●
Flow Direction	Blank	Standard flow (left → right)	●	●	●
	X1	Reverse flow (right → left)	●	●	●
E Other attachments					
Blank	Not included	●	●	●	
BW	C-bracket	●	●	●	

## ⚠ Precautions for model No. selection

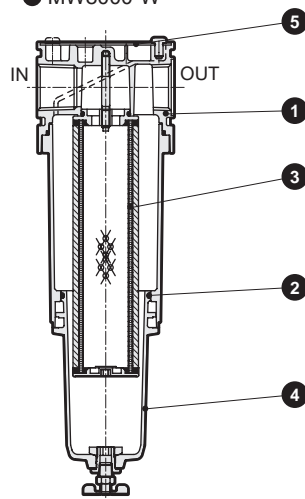
- \*1: G and NPT threads are available for IN, OUT and drain outlet of auto-drain.
- \*2: In compliance with the Measurement Act, the psi display cannot be used in Japan.
- \*3: Select options for the drainage, mantle, warranty period and flow direction. When selecting options for several items, list options in order from the top.
- \*4: NO auto-drain cannot be selected.
- \*5: Refer to "Pneumatic, Vacuum, and Auxiliary Components (Catalog No.CB-024SA)" for the auto-drain use conditions.
- \*6: The warranty period of option G is guaranteed for a period of three years from the date of delivery or for a period of one year from the start of use, whichever comes first.
- \*7: For option G, the specifications and drawings must be exchanged. Refer to page 98 for details.

## Internal structure and parts list

● MW3000-W/MW4000-W



● MW8000-W



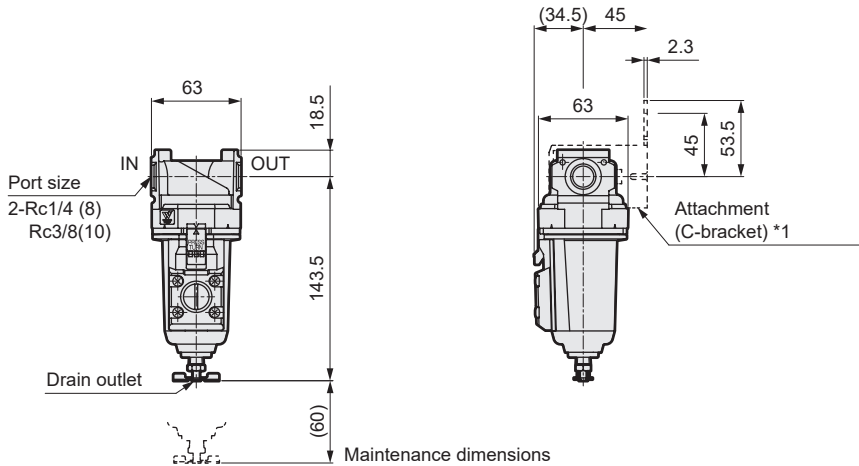
No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	O-ring	Special nitrile rubber
3	Mantle assembly	-
4	Metal bowl assembly	Aluminum alloy die-casting, brass, zinc alloy die-casting, nitrile rubber
5	Plate cover	Aluminum

# Oil Mist Filter Series

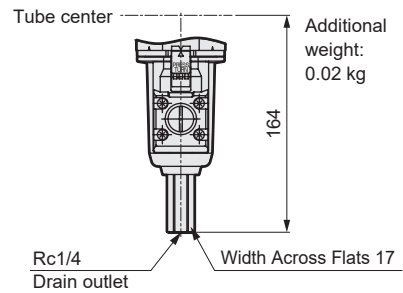
## Dimensions

● MW3000-W

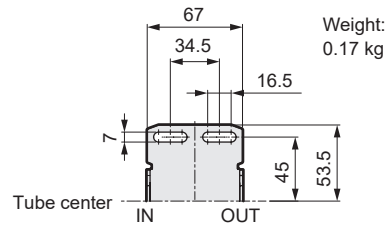
- Optional dimensions  
With auto-drain (F1)



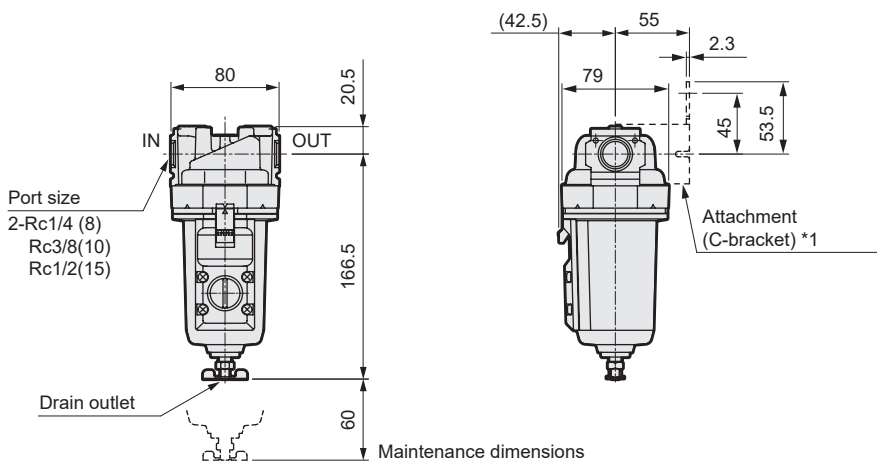
\*1:Bracket is optionally included.



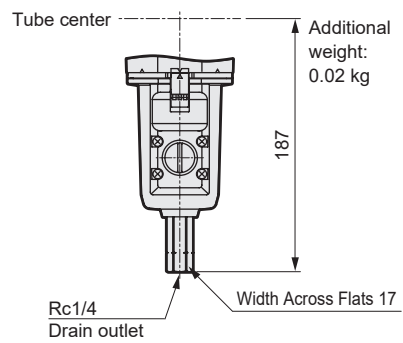
- Attachment  
C-bracket (-BW)  
Part model No.: B320
- Material: Steel  
Zinc plated



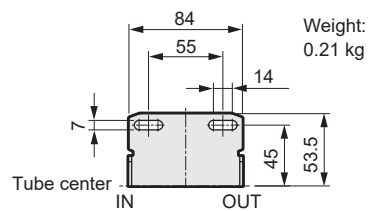
- Optional dimensions  
With auto-drain (F1)



\*1:Bracket is optionally included.

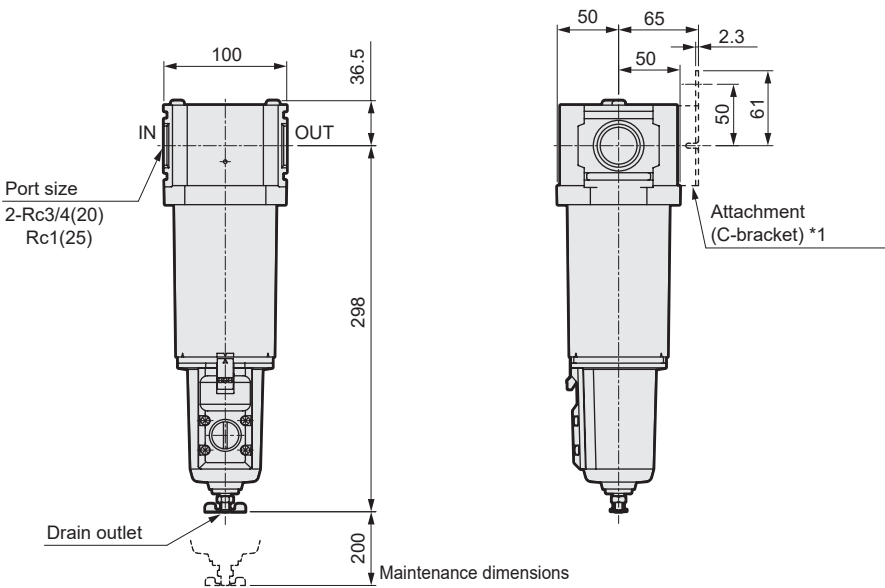


- Attachment  
C-bracket (-BW)  
Part model No.: B420



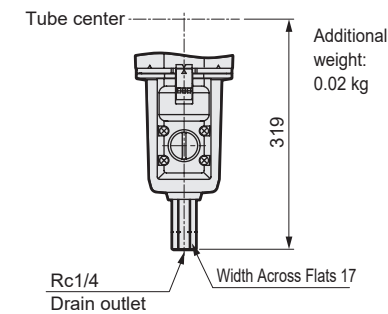
Dimensions

● MW8000-W

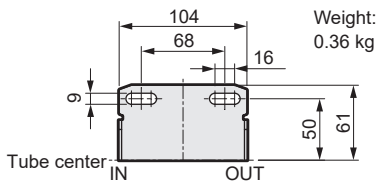


\*1:Bracket is optionally included.

· Optional dimensions  
With auto-drain (F1)



· Attachment  
C-bracket (-BW)  
Part model No.: B820



Drain separator  
F.R.L. unit

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components

Pneumatic  
valves

Fluid control  
valves

Pneumatic  
cylinders

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