

Oil mist filter for outdoor use

MW4000/MW8000-W Series

A series of outdoor specification products.

● Port size: 1/4 to 1

JIS symbol 

RoHS

CAD

Specifications

Item		MW4000-W	MW8000-W
Working fluid		Compressed air	
Working pressure	MPa	0.1 (≈15 psi, 1 bar) to 1.0 (≈150 psi, 10 bar) *2	
Proof pressure	MPa	1.5 (≈220 psi, 15 bar)	
Drain capacity	cm ³	80	80
Port size	Rc,NPT,G	1/4,3/8,1/2	3/4,1
Weight	kg	0.62	1.45

Mantle option name		Blank (M type)	S (S type)
Max. processing flow rate *1 ℓ/min(ANR)	MW4000-□-W	825	1000
	MW8000-□-W	2600	2900
Primary pressure 0.7 MPa			
Fluid temperature	°C	5 (41°F) to 60 (140°F)	
Ambient temperature	°C	-10 (14°F) to 60 (140°F) (no freezing)	
Filtration rating	μm	0.01 (nominal)	0.3
Secondary side oil concentration	mg/m ³	0.01 or less (0.1 or less after oil saturation) *3, *4	0.5 or less *3
Mantle (element) change		1 year (6000 hours) or pressure drop 0.1 MPa (≈15 psi, 1 bar)	

- *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/m³ 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.

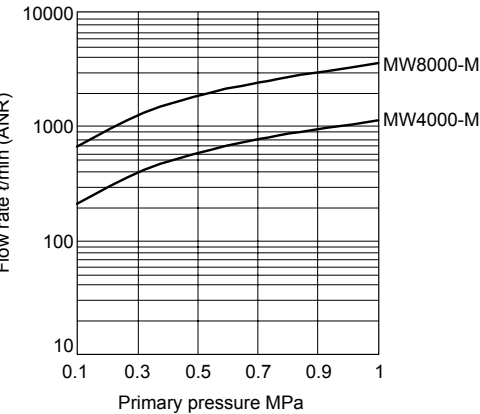
Option weight

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

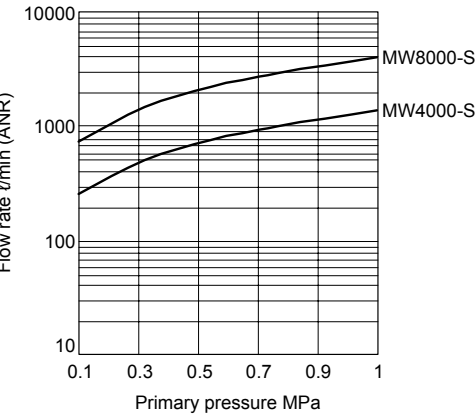
Code	Drain discharge	Attachment
	F1	BW
MW4000	0.02	0.21
MW8000	0.02	0.36

Flow characteristics (max. processing flow rate)

● MW*000-W-M



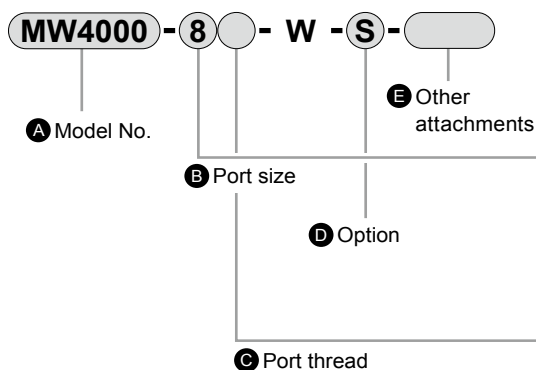
● MW*000-W-S



Oil Mist Filter Series

How to order

How to order



Code		Description	A Model No.	
B Port size			MW4000	MW8000
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 disch *4, 5	Blank	With manual cock	●	●
	F1	Auto-drain, man OVRD (NC: no press→no exhaust)	●	●
Mantle (Element)	Blank	M type (nominal 0.01 μm; remaining oil 0.01 mg/m ³)	●	●
	S	S type (nominal 0.3 μm; remaining oil 0.5 mg/m ³)	●	●
Warranty 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			Page 346	
Blank	Not included		●	●
BW	C type bracket		●	●

⚠ Precautions for model No. selection

- *1: G and NPT threads are available for IN, OUT and drain outlet of auto-drain.
- *2: NPT and G threads are sold for overseas use.
Select the Rc thread in the case of those for the Japanese market.
(In the case of those for the Japanese market, the pressure unit must be MPa and temperature display must be °C due to the Measurement Act.)
- *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 page 354 for the auto-drain usage conditions.
- *6: The warranty period of option G is 3 years from the date of delivery or 1 year from initial use.
- *7: For option G, the specifications and drawings must be agreed upon.

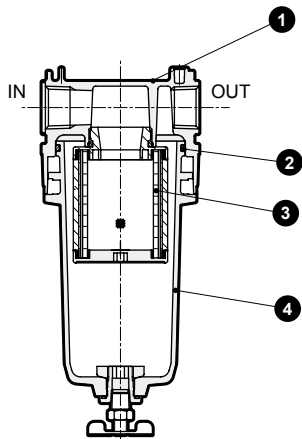
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner
Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

Oil Mist Filter Series

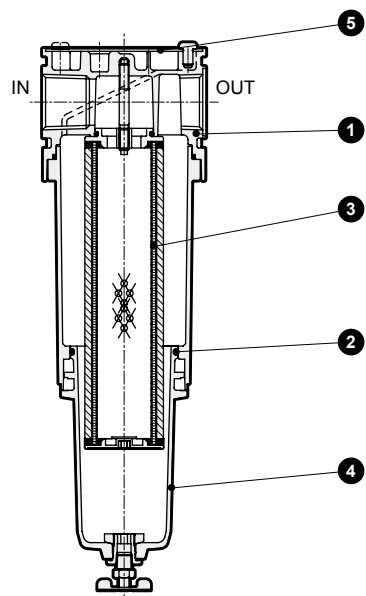
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filt
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdris FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

Internal structure and parts list

● MW4000-W



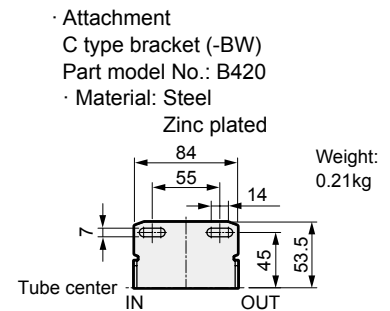
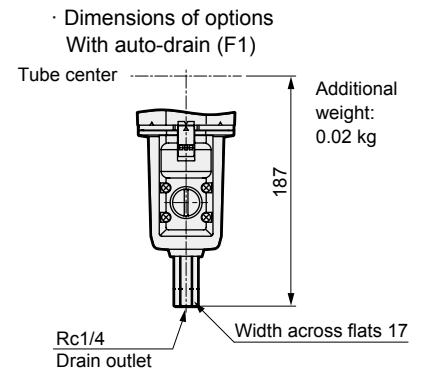
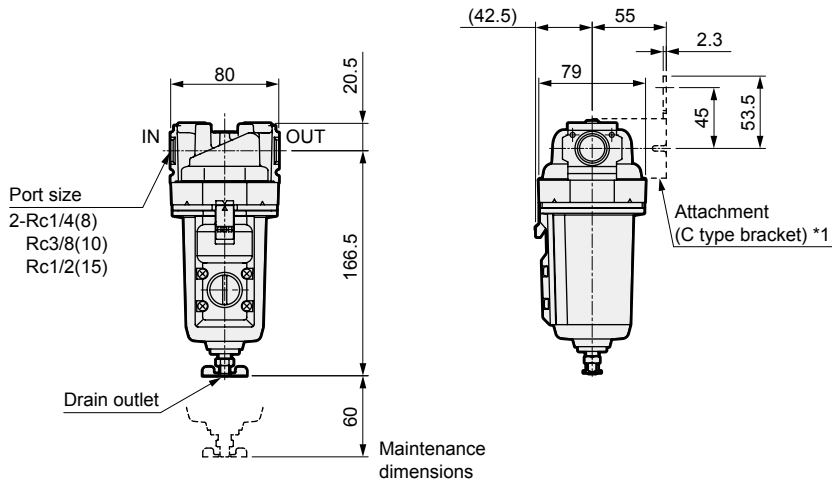
● MW8000-W



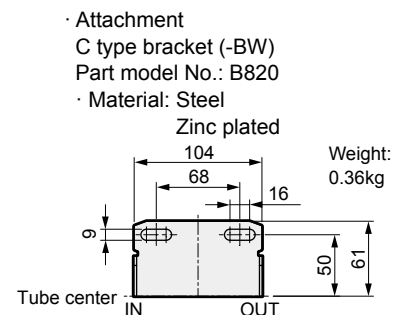
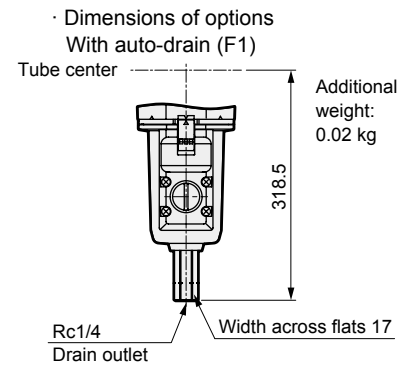
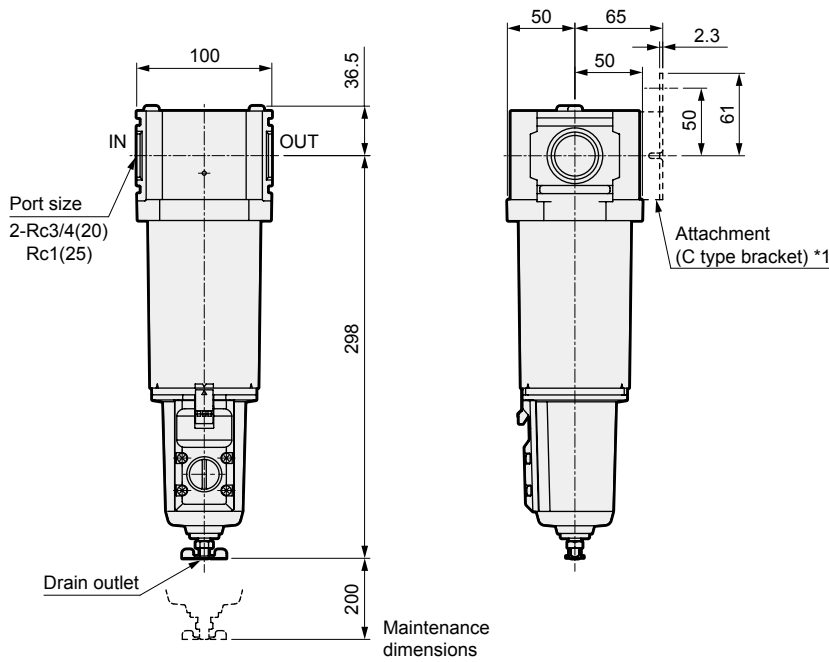
No.	Part name	Material
1	Body	Aluminum alloy die-casting
2	O-ring	Special nitrile rubber
3	Mantle assembly	-
4	Metal bowl assembly	Aluminum alloy die-casting, copper alloy, zinc, nitrile rubber
5	Plate cover	Aluminum

Dimensions

● MW4000-W



● MW8000-W



*1: Bracket is optional.

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Mech Press SW
Res press exh valve
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