

Oil mist filter standard white Series

M1000/M3000/M4000 M6000/M8000-W Series

Ideal for circuits susceptible to oil, including measuring, and instrumentation circuits Port size: 1/8 to 1

JIS symbol





Specifications

Descriptions	M1000-W	M3000-W	M4000-W	M6000-W	M8000-W
Appearance					
Working fluid			Compressed air		
Working pressure range MPa			0.1 to 1.0 Note 7, 8		
Withstanding pressure MPa			1.5 Note 7		
Drain capacity cm ³	3	45	80	80	80
Port size Rc, NPT, G	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1
	(3/8 uses an adapter)	(1/2 uses an adapter)	(3/4 uses an adapter)	(1 1/4 uses an adapter)	(1 1/4 uses an adapter)
Product weight kg	0.096	0.28	0.52	0.95	1.35
Standard accessories			Bowl guard		

Mantle option name		Blank (M type)	S (S type)	X (X type)
Maximum flow rate Note 1	M1000-*-W	150 note 7	150 note 7	150
	M3000-*-W	360	450	450
l/min. (ANR)	M4000-*-W	825	1000	1000
Primary side pressure 0.7MPa	M6000-*-W	1270	1400	1400
Pressure drop 0.01MPa	M8000-*-W	2600	2900	2900
Ambient temperature range °C		5~60		5~30
Filtration rating µm		0.01 (nominal)	0.3	Suction by activated charcoal Note 4
Secondary side oil concentration mg/m³		0.01 or less Note 2, Note 3	0.5 or less Note 2	0.003 or less Note 5
Mantle (element) change		1 year (6000 hours) or	pressure drop 0.1MPa	- Note 6

Note 1: Use within the maximum processing flow rate.

If the maximum processing flow is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in faults at the terminal.

- Note 2: The secondary oil density is the value when the primary oil density is 30 mg/m³ and inlet air temperature is 21°C.
- Note 3: Install an oil mist filter (S type) as a prefilter on the primary side to prevent early clogging.
- Note 4: Activated charcoal particles could flow to the secondary side, so install an air filter (F Series) or oil mist filter (M Series M type or S type) on the secondary side.
- Note 5: When an oil mist filter (M Series M type) is installed on the primary side.
- Note 6: The mantle (element) replacement period differs with the odor density in compressed air, and thus cannot be clearly indicated.

 Consider the total period from initial installation to when the smell of oil is confirmed as the effective deodorizing period, and replace at the same time as the M type or control with usage time. (When the inlet temperature is 21°C, replace at the control time or 1,000 hours, whichever is sooner)

 Keep the primary air temperature at 30°C or less. The deodorizing effect will drop if the temperature is high, so provide heat dissipation measures.
- Note 7: With M1000-W-F1 automatic drain, minimum operating pressure is 0.2 MPa, maximum operation pressure is 0.7 MPa and the guaranteed pressure resistance is 1.05 MPa. Refer to the maximum processing flow graph (page 93) for the maximum working flow.
- Note 8: Min. operating pressure is 0.15MPa for "F1" with automatic drain.

Clean room specifications

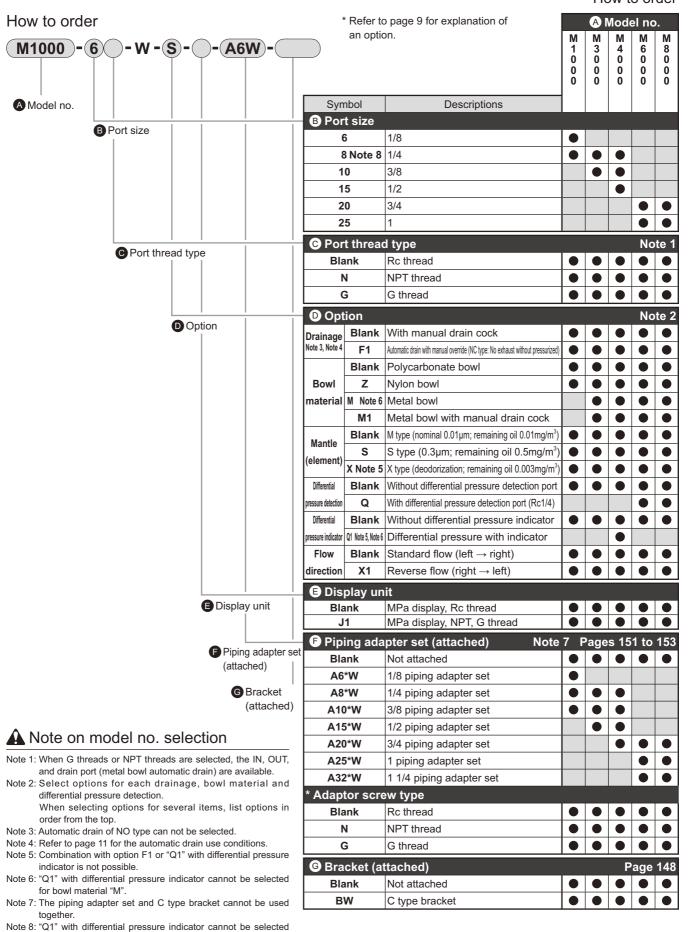
(Catalog No. CB-033SA)

Dust generation preventing structure for use in cleanrooms

M*000- · · · · · (



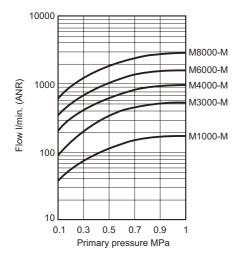
How to order



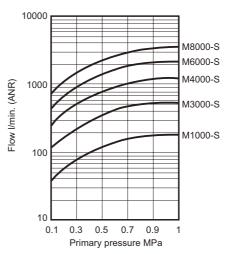
for port size "8"

Flow characteristics (maximum flow rate)

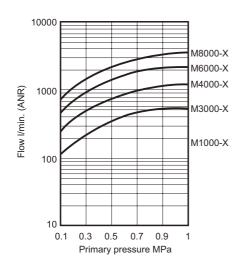
● M*000-W-M



M*000-W-S

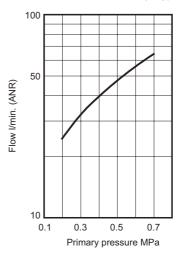


■ M*000-W-X



● M1000-W-F1

With automatic drain (M type, S type)



Oil mist filter: Using optional mantle

Major recommended circuit

* S type

Applications

General industrial air

- Air tool
 Air drill, air screw driver air grinder
- · Labor saving device and components
- · Pneumatic jigs and tools
- · Air chuck
- · Air vice
- · Precision part cleaning air blow

* M type

Oil free air

- Instrumentation
- MeasurementLogic control
- Movable element, pure fluid element
- · Luxury painting
- · Precise industry

Deodorization air
• Food industry
• Pharmaceutical industry

- ·Agitation
- TransportationDry
- · Dry · Package
- · Air for brewing

Option symbol and shape of mantle

Option symbol	Appearance
Blank (M type)	End plate black
S (S type)	End plate green Plastic
X (X type)	Punching metal End plate black

CAUTION: Changes for product upgrades may be made without prior notice.

When placing an order, confirm the option symbol for the part model given here.

Oil indicator

Use the oil indicator for measuring oil content density.

Oil indicator model no. With needle valve 6509 Without needle valve 6510

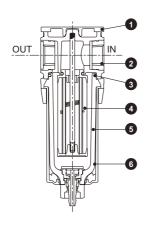


Note: Consult with CKD for details.

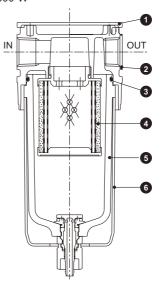
Internal structure and parts list

Internal structure and parts list

● M1000-W

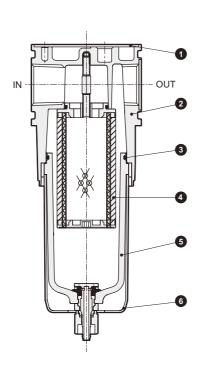


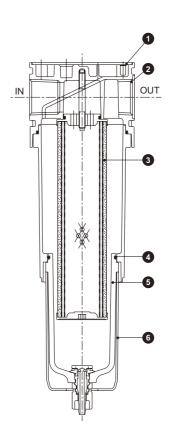
● M3000-W/M4000-W



● M6000-W







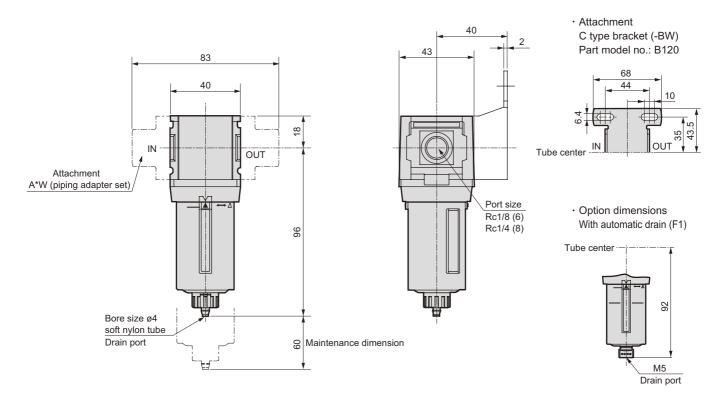
No	Dout name			Material		
No.	Part name	M1000-W	M3000-W	M4000-W	M6000-W	M8000-W
1	Plate cover		ABS resin			
2	Body	Polyamide resin	Polyamide resin Aluminum alloy die-casting			
3	O ring Note 1		Special nitrile rubber			
4	Mantle assembly		•			
5	Bowl assembly	Polycarbonate resin, polyacetal resin, urethane rubber resin				
6	Bowl guard	Polyamide resin	Polyamide resin, steel			

Note 1: The M1000-W O ring has a special shape.

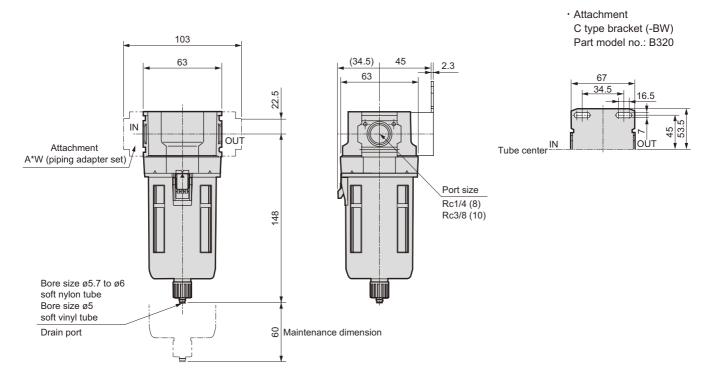
Dimensions



● M1000-W



M3000-W



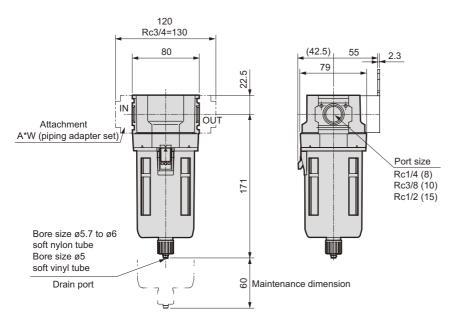
• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or automatic drain is installed. Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

Dimensions

Dimensions

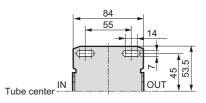


M4000-W

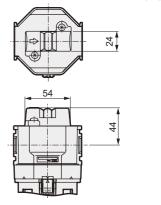


• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or automatic drain is installed.

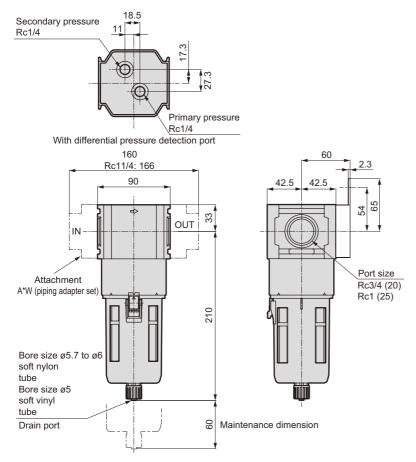
Attachment C type bracket (-BW) Part model no.: B420



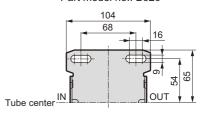
Option dimensions
 Differential pressure with indicator (Q1)



M6000-W



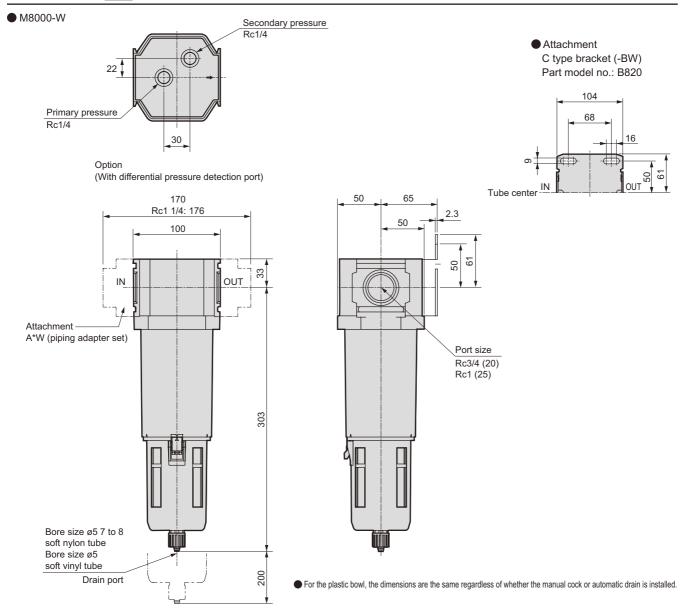
· Attachment C type bracket (-BW) Part model no.: B620



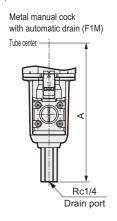
• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or automatic drain is installed. Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

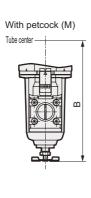
Dimensions

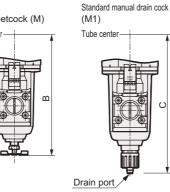




Metal bowl (option) (M3000-W, M4000-W, M6000-W, M8000-W)





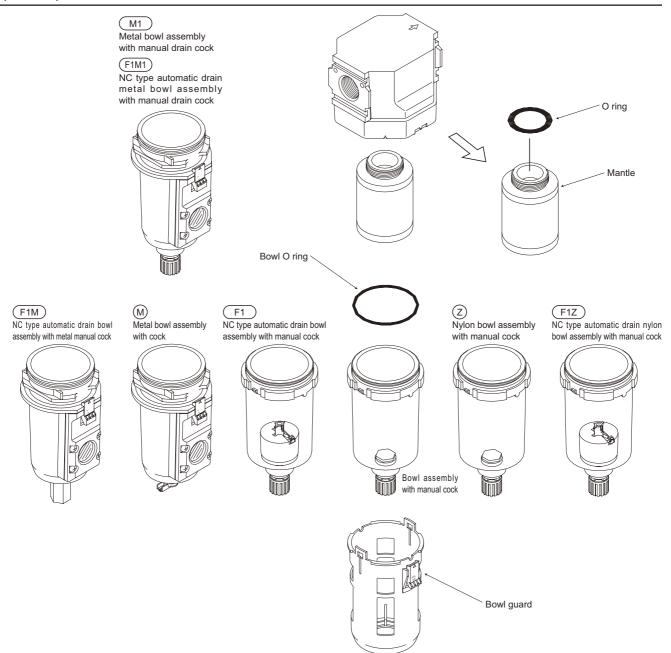


Dimensions table

Model no.	F1M	M	M1
woder no.	Α	В	С
M3000-W	164	143.5	154
M4000-W	187	166.5	177
M6000-W	226	205	216
M8000-W	319	298	309

Optional parts table

Optional parts table - Oil mist filter



Repair kits model no. (Set consisting of O ring, mantle, bowl O ring)

•		•	
Model	M type	S type	X type
M1000-W	M1000-KIT	M1000-KIT-S	M1000-KIT-X
M1000-W-F1	M1000-KIT-F1	M1000-KIT-F1S	-
M3000-W, MM3000-W	M3000-KIT	M3000-KIT-S	M3000-KIT-X
M4000-W, MM4000-W	M4000-KIT	M4000-KIT-S	M4000-KIT-X
M6000-W, MM6000-W	M6000-KIT	M6000-KIT-S	M6000-KIT-X
M8000-W, MM8000-W	M8000-KIT	M8000-KIT-S	M8000-KIT-X

Repair kits model no. (Set consisting of O ring, mantle)

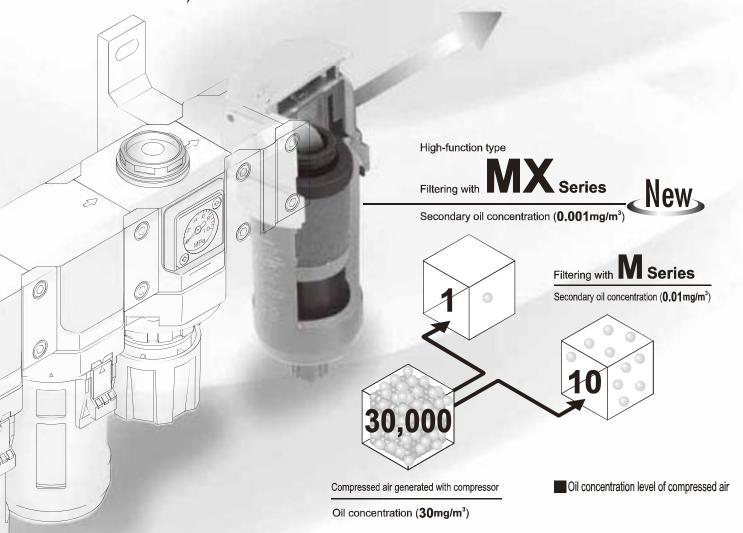
Model	M type	S type	X type
M1000-W	M1000-MANTLE-ASSY	M1000-MANTLE-ASSY-S	M1000-MANTLE-ASSY-X
M1000-W-F1	M1000-MANTLE-ASSY-F1	M1000-MANTLE-ASSY-F1S	-
M3000-W, MM3000-W	M3000-MANTLE-ASSY	M3000-MANTLE-ASSY-S	M3000-MANTLE-ASSY-X
M4000-W, MM4000-W	M4000-MANTLE-ASSY	M4000-MANTLE-ASSY-S	M4000-MANTLE-ASSY-X
M6000-W, MM6000-W	M6000-MANTLE-ASSY	M6000-MANTLE-ASSY-S	M6000-MANTLE-ASSY-X
M8000-W, MM8000-W	M8000-MANTLE-ASSY	M8000-MANTLE-ASSY-S	M8000-MANTLE-ASSY-X

^{*} M1000-W, 3000-W, 4000-W, and 8000-W Series products released before May 1998 are compatible with M parts, so select M parts.

^{*} Refer to the air filter options and parts table for details on the bowl assembly and bowl guard.

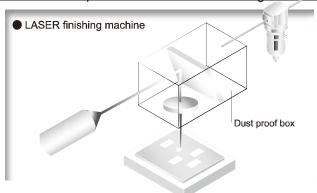
High-performance with x 1 0 oil removal.

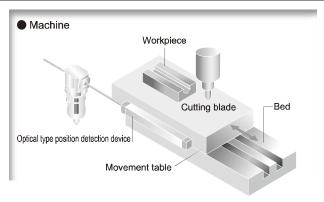
Highly efficient oil removing mantle removes oil up to a secondary oil concentration 0.001 mg/m³. MX Series high-performance oil mist filter with x10 (compared to oil mist filter M Series) oil removal.



Further expanding high-purity oilless air applications

This series is ideal for applications requiring high-purity oilless air, including laser processing systems, optical positioning units, and foodstuff and pharmaceutical manufacturing lines.





High performance oil mist filter

MX Serise

Mantle structural explanation



Oil is efficiently collected to prevent outflow to the secondary side.

Stainless steel support tube

Outstanding strength provides protection against external impact and high differential pressure.

Pre-filter support layer

Solid particles are removed, extending the life of the mantle (element).

Polosilicate micro fibers

Oil is swiftly removed to prevent pressure loss.

Secondary side oil concentration 0.001mg/m³ or less

The highly efficient oil removing mantle removes oil up to the secondary oil concentration of 0.001 mg/m³ at 21°C. This series is compatible with the JIS Standards Oil Class 1.

High accuracy filtration

Impurities up to 0.01 µm are removed.

Long life, low pressure loss

The gap rate within the mantle (element) fibers is high at 94%, suppressing pressure loss and extending life.

Module connections

A system is configured with module connections in the same manner as the conventional filter F Series and oil mist filter M Series.

Diverse models

Five types: MX1000, 3000, 4000, 6000, and 8000 are used to match the flow.

Cleanroom-compatible

The P70 Series is used. (3000, 4000, and 6000 Series are used.)



A

Read Safety Precautions to ensure correct, safe product use.



High performance oil mist filter standard white Series

MX1000/MX3000/MX4000 MX6000/MX8000-W Series

Secondary side oil concentration 0.001mg/m³

This is appropriate for optical device such as optical type positioning device, LASER finishing machine, etc.,

Port size: 1/8 to 1

JIS symbol



Specifications

Specifications						
Descriptions	MX1000-W	MX3000-W	MX4000-W	MX6000-W	MX8000-W	
Appearance	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Working fluid			Compressed air			
Working pressure range MPa		0	.1 to 1.0 Note 4, Note	5		
Withstanding pressure MPa			1.5 Note 4			
Ambient temperature range °C			5 to 60			
Filtration rating µm			0.01 (nominal)			
Secondary oil concentration mg/m³		0.0	01 or less Note 2, Not	e 3		
Maximum flow rate /min. (ANR) Note 1	75 Note 4	180	370	670	1480	
Drain capacity cm ³	3	45	80	80	80	
Port size Rc, NPT, G	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1	
Port size RC, NPT, G	(3/8 uses an adapter)	(1/2 uses an adapter)	(3/4 uses an adapter)	(1 1/4 uses an adapter)	(1 1/4 uses an adapter)	
Product weight kg	0.096	0.28	0.52	0.95	1.35	
Mantle (element) change	1 year (6000 hours) or pressure drop 0.1MPa					
Standard accessories	Bowl guard					

Note 1: Values for primary pressure 0.7 MPa and pressure drop 0.01 MPa. Use within the maximum flow rate. If the maximum flow rate is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, s

Clean room specifications

(Catalog No. CB-033SA)

Dust generation preventing structure for use in cleanrooms

MX*000-....



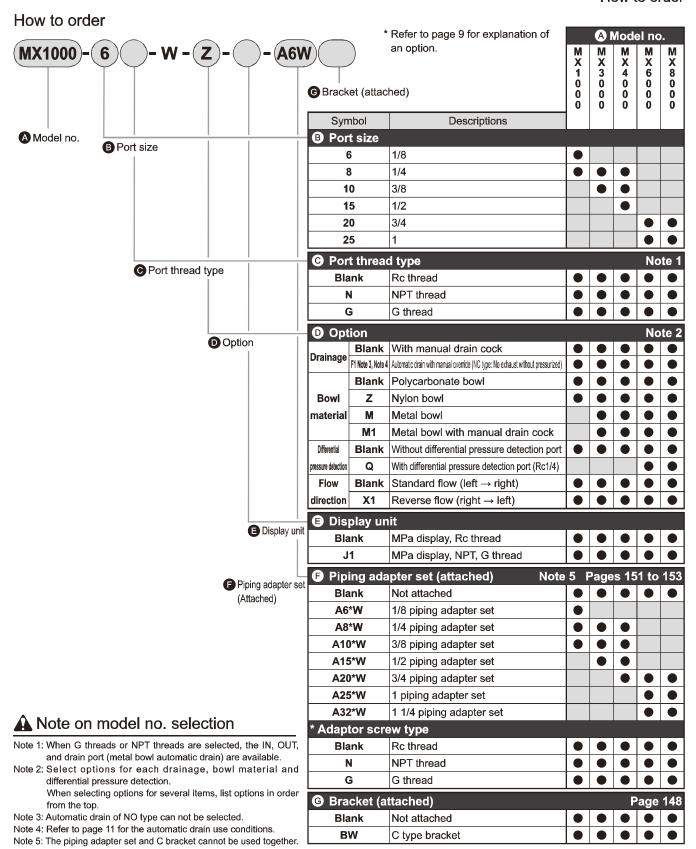
Note 2: The secondary oil concentration is the value when the primary oil concentration is 30 mg/m^3 , the inlet air temperature is 21°C and before the oil is saturated.

Note 3: Install an oil mist filter (S type) as a prefilter on the primary side to prevent early clogging.

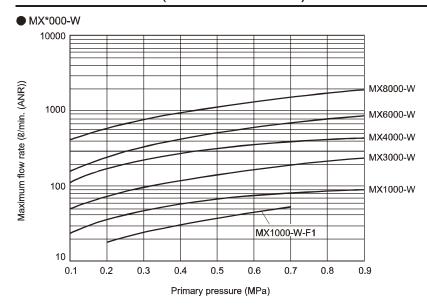
Note 4: When MX1000-W-F1 with an automatic drain is selected, the minimum operation pressure is 0.2 MPa, the maximum operation pressure is 0.7 MPa, and the guaranteed pressure resistance is 1.05 MPa. Refer to the maximum flow rate graph (next page) for maximum flow rate.

Note 5: Min. operating pressure is 0.15MPa for "F1" with automatic drain.

How to order



Flow characteristics (maximum flow rate)



Oil mist filter: Using optional mantle

Option symbol and shape of mantle

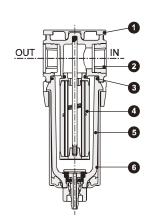
on mor mion comig opin	riai illariaio		O P O	0 , 0 .	and onapo or manife
Major recommended circuit	Applications			Option symbol	\
* S type	General industrial air (Secondary oil concentration 0.5mg/m³ or less)	· Air tool Air drill, air screw driver air grinder		Blank (M type)	End plate black
* M type		Labor saving device and components Pneumatic jigs and tools Air chuck Air vice Precision part cleaning air blow	M*000-W	S (S type)	End plate green Plastic form
FSM *Xtype	(Secondary oil concentration 0.01mg/m³ or less)	Instrumentation Measurement Logic control Movable element and pure fluid element Luxury painting Precise industry		X (X type)	End plate black
FSMX	(Secondary oil concentration 0.003mg/m³ or less)	Food industry Pharmaceutical industry Agitation Transportation Dry Package	MX	.*000-W	black — Plastic form red Plate green — Plastic form
* MX type	Super oilless air	 Air for brewing Optical type positioning device LASER finishing machine 	CAUTIC	prior noti When pla	s for product upgrades may be made without ce. acing an order, confirm the option symbol for the el given here.

CAUTION The secondary oil concentration is the value when the primary oil concentration is 30 mg/m³, the inlet air temperature is 21°C and before the oil is saturated.

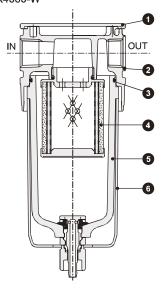
Internal structure and parts list

Internal structure and parts list

● MX1000-W

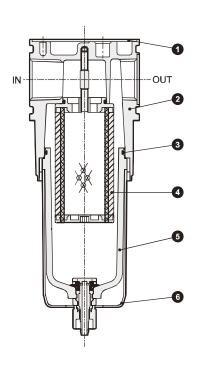


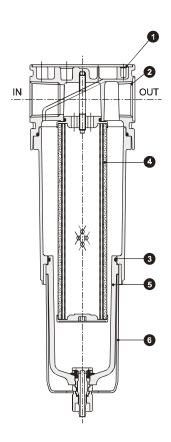
MX3000-W/MX4000-W



MX6000-W





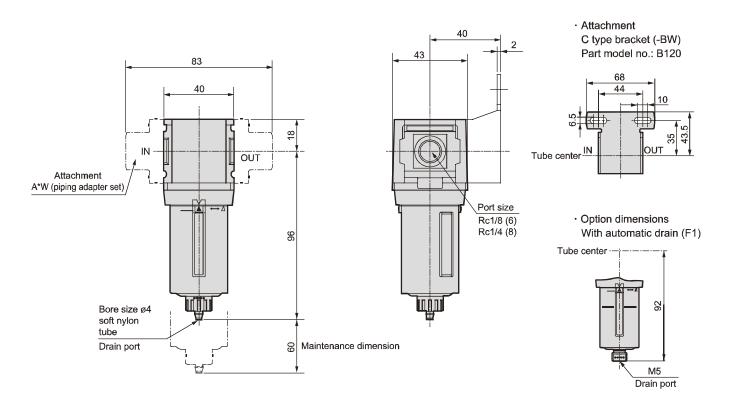


No.	Part name			Material		
NO.	raitilaille	MX1000-W	MX3000-W	MX4000-W	MX6000-W	MX8000-W
1	Plate cover	ABS resin				
2	Body	Polyamide resin Aluminum alloy die-casting				
3	O ring Note 1	Special nitrile rubber				
4	Mantle assembly	-				
5	Bowl assembly	Polycarbonate resin, polyacetal resin, urethane rubber resin				
6	Bowl guard	Polyamide resin, steel				

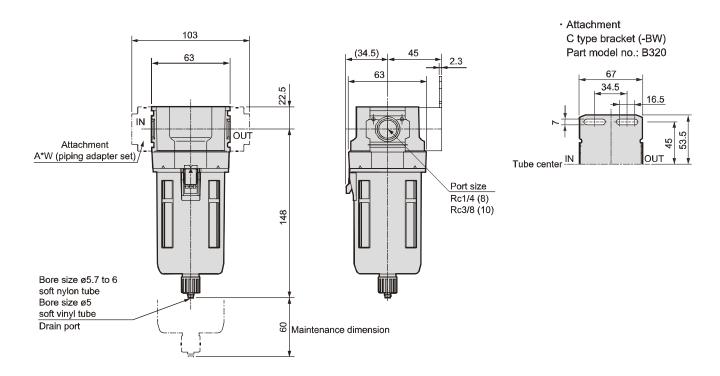
Note 1: The MX1000-W O ring has a special shape.

Dimensions

MX1000-W



MX3000-W

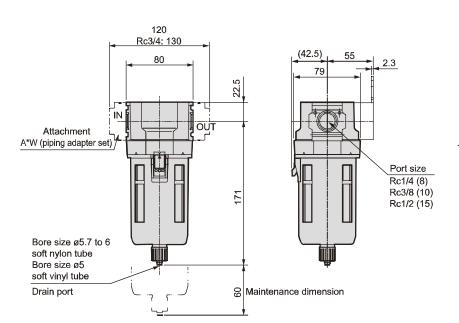


• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or automatic drain is installed. Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

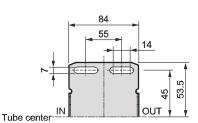
Dimensions

Dimensions

■ MX4000-W

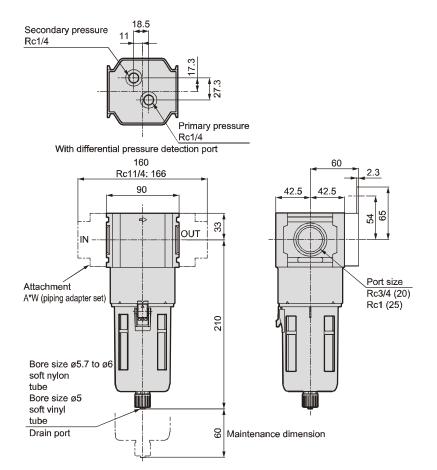


Attachment
 C type bracket (-BW)
 Part model no.: B420

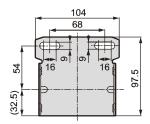


• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or automatic drain is installed.

MX6000-W

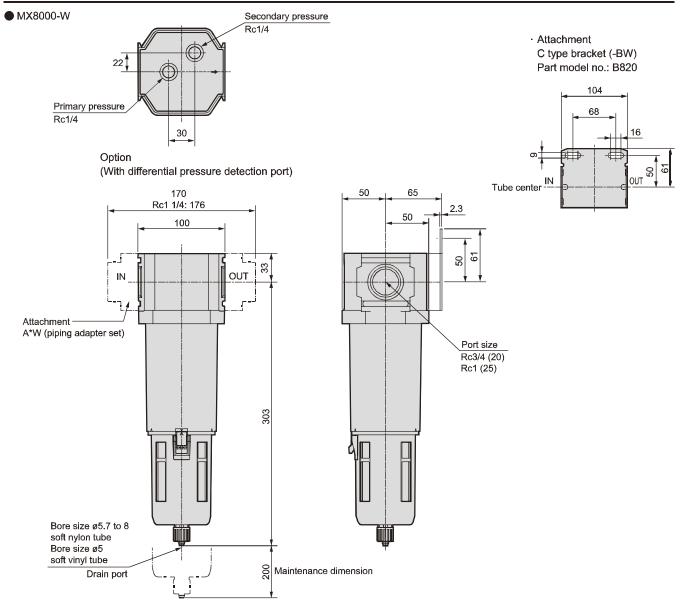


· Attachment C type bracket (-BW) Part model no.: B620



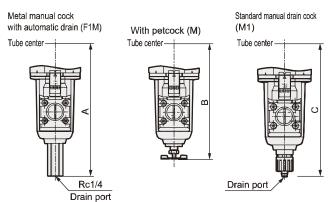
• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or automatic drain is installed. Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

Dimensions



• For the plastic bowl, the dimensions are the same regardless of whether the manual cock or automatic drain is installed.

Metal bowl (option) (MX3000-W, MX4000-W, MX6000-W, MX8000-W)

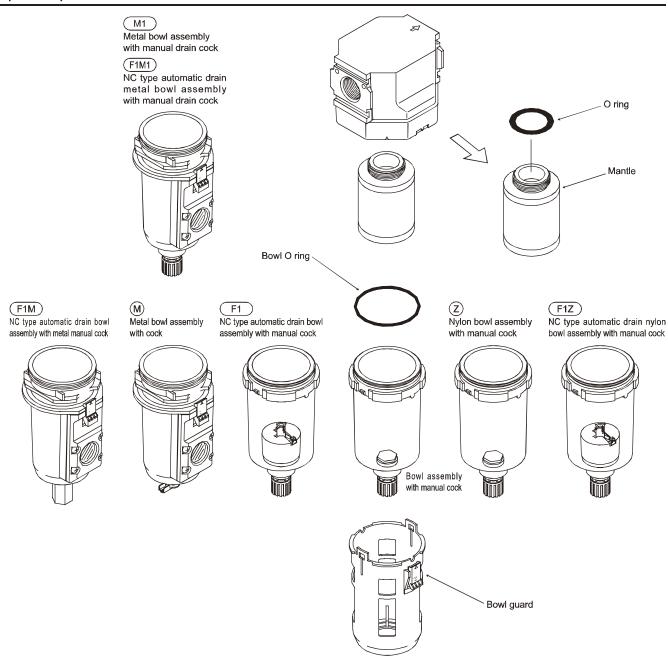


Dimensions table

Model no.	F1M	M	M1	
wiodei iio.	Α	В	С	
MX3000-W	164	143.5	154	
MX4000-W	187	166.5	177	
MX6000-W	226	205	216	
MX8000-W	319	298	309	

Optional parts table

Optional parts table - Oil mist filter



Repair kits model no. (Set consisting of O ring, mantle, bowl O ring)

Model	
MX1000-W	MX1000-KIT
MX1000-W-F1	MX1000-KIT-F1
MX3000-W	MX3000-KIT
MX4000-W	MX4000-KIT
MX6000-W	MX6000-KIT
MX8000-W	MX8000-KIT

Repair kits model no. (Set consisting of O ring, mantle)

Model	
MX1000-W	MX1000-MANTLE-ASSY
MX1000-W-F1	MX1000-MANTLE-ASSY-F1
MX3000-W	MX3000-MANTLE-ASSY
MX4000-W	MX4000-MANTLE-ASSY
MX6000-W	MX6000-MANTLE-ASSY
MX8000-W	MX8000-MANTLE-ASSY

^{*} Refer to the air filter options and parts table on pages 89 and 90 for the bowl assembly and bowl guard.

F.R.L F (Filtr) R (Reg) L (Lub) Oil mist filter/medium pressure

MM3000-W/MM4000-W/MM6000-W/MM8000-W Series

M3000 to 8000 Series medium pressure specifications

Port size: 1/4 to 1

JIS symbol





Specifications

PresSW

Shutoff SlowStart **FImResistFR** Oil-ProhR MedPresFR No Cu/ PTFE FRL Outdrs FR F.R.L (Related) CompFRL **LgFRL PrecsR** VacF/R Clean FR ElecPneuR AirBoost SpdContr Silncr

Specifications									
Mode	el No.	MM3000-W	M	M4000-W	MM6000-	-W	MM8000-W		
Appearance		1 - 1 a		30 °					
Working fluid		Compressed air							
Max. working pres		0.1 (≈15 psi, 1 bar) to 1.6 (≈230 psi, 16 bar) *2							
Proof pressure	MPa	2.4 (≈350 psi, 24 bar) *2							
Drain capacity	cm ³	45		80	80		80		
Port size	Rc,NPT,G	1/4,3/8	1	1/4,3/8,1/2	3/4,1		3/4,1		
Weight	kg	0.35		0.55	1.0		1.48		
Mantle op	tion name	Blank (M type)		S (S	type)		X (X type)		
Flow rate *1	MM3000-□-W	490		61	10		610		
ହ/min. (ANR)	MM4000-□-W	1130		13	1370				
Primary pressure	MM6000-□-W	1740	1740 1920				1920		
1.4 MPa	MM8000-□-W	3560	3980 3980				3980		
Ambient temperature °C		-5 (23°F) to	60 (140)°F) (no freezing) '	⁺ 2	-5 (23°F) to 30 (86°F) (no freezing)			
Fluid temperature	°C	5 (4	1°F) to 6	0 (140°F) *2		5 (41°F) to 30 (86°F)			
Filtration rating	μm	0.01 (nominal)					Suction by activated charcoal *3		
Secondary side oil o	concentration mg/m³	0.01 or less (0.1 or less after oil satura	ation) *4, *5	0.5 or l	ess *4	0.003 or less *4, *6			

^{*1:} Use within the max. processing flow rate.

Mantle (element) change

1 year (6000 hours) or pressure drop 0.1 MPa (≈14.6 psi, 1 bar)

- *3: Activated charcoal particles could flow to the secondary side, so install an air filter (F Series) or oil mist filter (M Series M type or S type) on the secondary side.
- *4: When primary side oil concentration is 30 mg/m³, and inlet air temperature is 21°C.
 *5: Install an oil mist filter (S type) as a pre-filter on the primary side to prevent early clogging.
- *6: When an oil mist filter (M Series M type) is installed on the primary side.

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge	Attachment									
Code	F1	W*8A	A10*W	A15*W	A20*W	A25*W	A32*W	BW			
MM3000	0.02	0.16	0.16	0.16				0.17			
MM4000	0.02	0.16	0.16	0.16	0.16			0.21			
MM6000	0.02				0.53	0.53	0.53	0.34			
MM8000	0.02				0.53	0.53	0.53	0.36			

Dischrg etc

Jnt/tube

AirUnt

PrecsCompn

ContactSW

AirSens

PresSW

AirFloSens Contr

WaterRtSens TotAirSys (Total Air)

TotAirSys

(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr

Cool

Mech/

Ending

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 of auto-drain is 0.15 MPa. The max. working pressure is 1.5 MPa, the proof pressure is 2.25 MPa, the ambient temperature is -5 to 45°C, and the fluid temperature is 5 to 45°C.

^{*7:} The time to replace the "X" type mantle (element) cannot be clearly stated since it depends on the odor density in the compressed air.

Consider the total period from the initial installation to when the smell of oil can be confirmed as the effective deodorizing period, and regularly replace the mantle (element). Keep the primary air temperature at 30°C or less. The deodorizing effect will drop if temperature is high, so provide heat dissipation measures.

How to order

						How	το ο	raer	
How to order		* Refer to	nage 2	28 for the	A	Model	No.		F.R.L
				the option.					
MM3000-8 -W-F1)	N 8 N/	· ·		·	0				F (Filtr)
WINDOW BY W	AUVV				MM3000	MM4000	MM6000	MM8000	R (Reg)
Model No. (White type)		Code		Content	Σ	Σ	M	Σ	L (Lub)
B Port size	1 1	B Port s	ize						
Fort size		8	1/4		•	•			PresSW
		10	3/8		•	•			Shutoff
		15	1/2			•			SlowStart
		20	3/4				•	•	SiowStart
		25	1				•	•	FImResistFR
Dout throad		© Port t	hread					*1	Oil-ProhR
Port thread		Blank	Rc thr	ead	•	•	•	•	
		N	NPT th	nread	•	•		•	MedPresFR
		G	G thre	ad	•	•	•	•	No Cu/ PTFE FRL
	1 !	D Optio	n					*2	Outdrs FR
Option				With manual drain cock	•	•	•	•	F.R.L
		Drain		NC auto-drain (no press→no exhaust) drain outlet Rc1/8		\Box			(Related)
		discharge	F1	Max. working press 1.5 MPa, max. operating amb temp	•	•	•	•	CompFRL
		*3, *4		45°C					
		Bowl material	Blank	Metal bowl	•	•	•	•	LgFRL
			Blank	M type (nominal 0.01 μm; remaining oil 0.01 mg/m³)	•	•	•	•	PrecsR
		Element	S	S type (nominal 0.3 μm ; remaining oil 0.5 mg/m^3)	•	•	•	•	VacF/R
			Х	X type (deodorization; remaining oil 0.003 mg/m³) *5	•	•	•	•	
		Diff press	Blank	Without differential pressure detection port	•	•	•	•	Clean FR
		detect	Q	With differential pressure detection port (Rc1/4)			•	•	ElecPneuR
		Flow	Blank	Standard flow (left → right)	•	•	•	•	A'-D1
		direction	X1	Reverse flow (right → left)	•	•	•	•	AirBoost
	l tionlov v solt	Displa	ay unit	:					SpdContr
G D	isplay unit	Blank	MPa d	isplay, Rc thread	•	•	•	•	Silncr
		J1	MPa d	isplay, NPT/G thread	•	•	•	•	CheckV/
		Other	attacl	nments	,	*6, *7	Page	270	other
G	Other attachments	Blank	Not at	ached	•	•	•	•	Jnt/tube
	allacriments	A8*W	1/4 pip	e adaptor set	•	•			AirUnt
A Precautions for model No. selection		A10*W	3/8 pip	e adaptor set	•	•			Alloni
*1: NPT and G threads are available for IN, OUT, and		A15*W	1/2 pip	e adaptor set	•	•			PrecsCompn
drain ports.		A20*W	3/4 pip	e adaptor set		•	•	•	Mech/
*2: Select options for the drainage, bowl material,		A25*W	1 pipe	adaptor set			•	•	ElecPresSw
element and differential pressure detection. When selecting options for several items, list		A32*W	1 1/4 p	ipe adaptor set			•	•	ContactSW
options in order from the top.		* Adaptoı	r threa	d					AirSens
*3: NO auto-drain cannot be selected. *4: Refer to page 280 for the auto-drain usage		Blank	Rc thr		•	•	•	•	PresSW
conditions.		N	NPT th		•	•	•	•	Cool
*5: Combination with option F1 is not possible.*6: The pipe adaptor set and C type bracket cannot be		G	G thre	ad	•	•	•	•	AirFloSens/ Contr
used together.	G Bracket	G Brack	et (att	achment)			Page	267	WaterRtSens
*7: The joiner set is enclosed with the pipe adaptor set.	(attachment)	Blank	Not at	ached	•	•	•	•	TotAirSys
	, ,	BW	C type	bracket	•	•	•	•	(Total Air)
									TotAirQue

CKD

Ending

RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg

Flow characteristics (max. processing flow rate)

● MM*000-W

F.R.L

F (Filtr) R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart **FImResistFR**

Oil-ProhR MedPresFR No Cu/ PTFE FRL

Outdrs FR

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

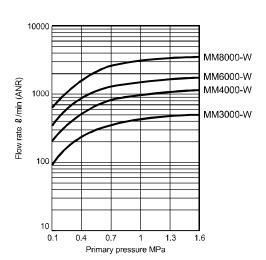
SpdContr

Silncr

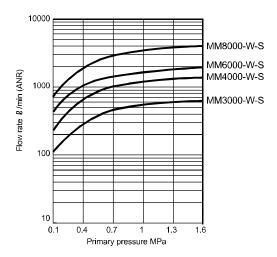
Jnt/tube AirUnt

PrecsCompn Mech/

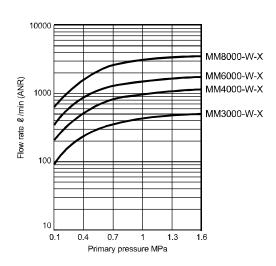
F.R.L (Related) CompFRL LgFRL



● MM*000-W-S



MM*000-W-X



How to select oil mist filter and optional mantle

Option code of mantle and shape



TotAirSys (Total Air)

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg

Ending

etc

Major recommended circuit ♦ S type

Applications General industrial air

> Pneumatic grinder Labor-saving device · Pneumatic jigs and tools · Air chuck · Air vice · Precision part cleaning air blow Instrumentation Measurement

Option code **Appearance** Plastic foam Air drill/air screw driver End Blank plate (M type) . Black Plastic foam Fnd s plate (S type) Green

M type F S M

Oil-free air

· Air tool

· For sequence control Movable element/pure fluid element Luxury painting · Precision industry

Perforated metal End Х plate (X type) Black

X type

Odorless air F S M X

· Pharmaceutical industry Mixing

· Food industry

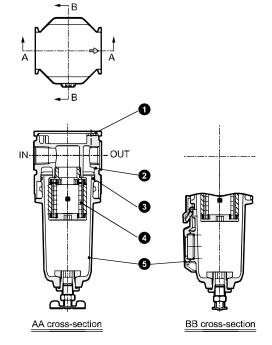
 Transportation Drying

Packaging · Brewing air Note: Changes for product upgrades may be made without prior notice. When placing an order, confirm the option code of the part model No. displayed on the body.

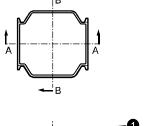
Internal structure and parts list

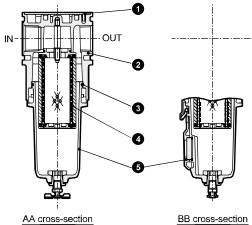
Internal structure and parts list

● MM3000-W/MM4000-W

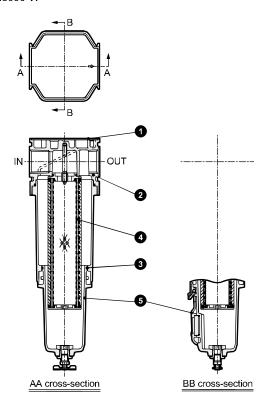


● MM6000-W





● MM8000-W



No.	Part name	Material					
(1)	Plate cover	ABS resin					
(2)	Body	Aluminum alloy die-casting					
(3)	O-ring	Special nitrile rubber					
(4)	Mantle assembly	-					
(5)	Metal bowl assembly	Aluminum alloy die-casting, copper alloy, glass, nitrile rubber, steel, stainless steel					
*1· Re	*1. Renair mantle and renair kit are common for M*000-W. Refer to renair parts on page 113						

^{1:} Repair mantle and repair kit are common for M*000-W. Refer to repair parts on page 113.

F.R.L

F (Filtr)

R (Reg)

L (Lub) PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR F.R.L

(Related) CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr CheckV/

Jnt/tube

AirUnt

PrecsCompn Mech/ ElecPresSw

ContactSW

AirSens

PresSW Cool AirFloSens/

Contr WaterRtSens

TotAirSys (Total Air)

TotAirSys

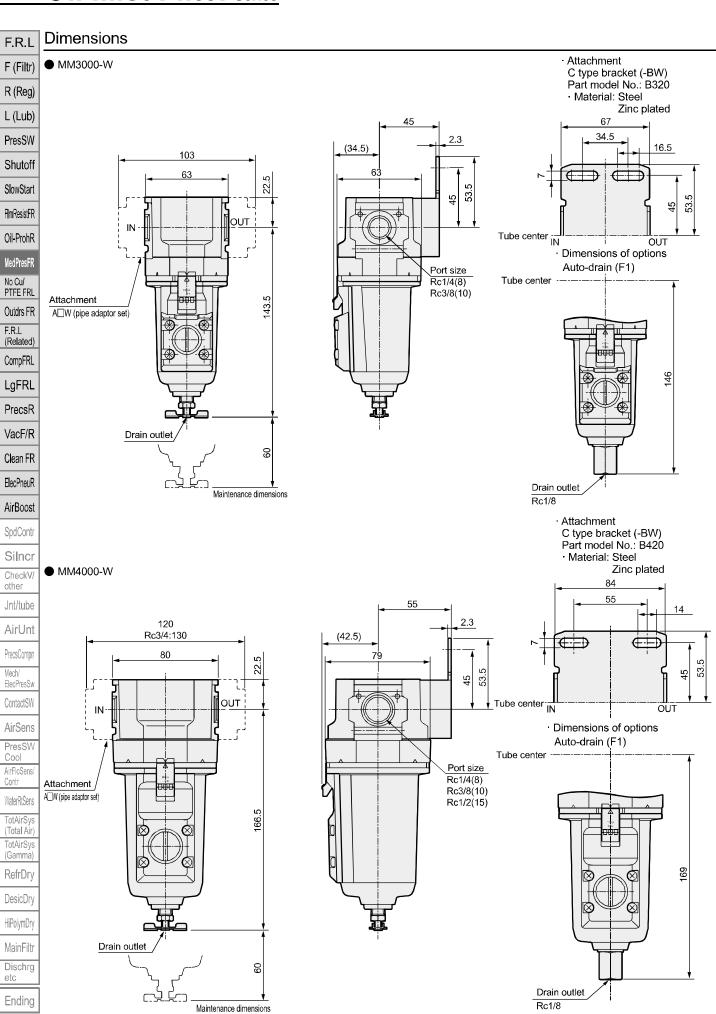
RefrDry

DesicDry

HiPolymDry MainFiltr

Dischrg etc

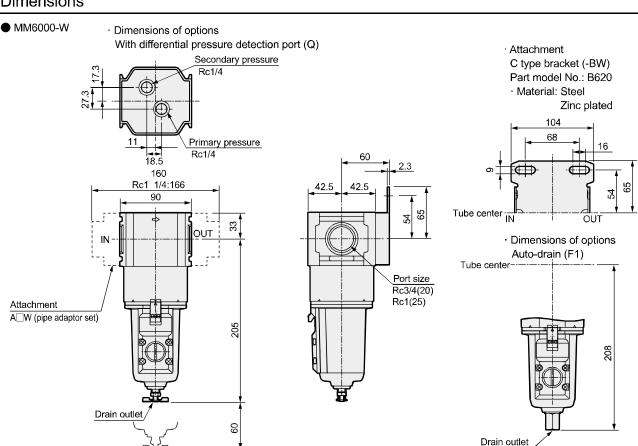
Ending



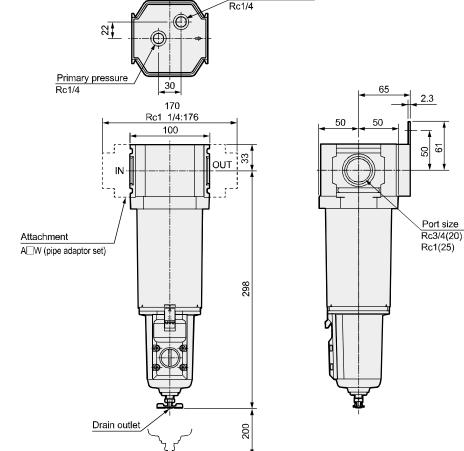
CKD

Dimensions

Dimensions



W-0008MM - Dimensions of options With differential pressure detection port (Q)
Secondary pressure

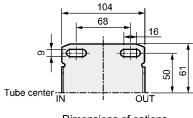


Maintenance dimensions

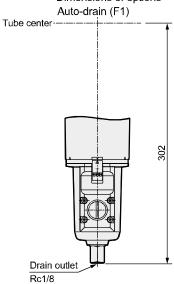
Maintenance dimensions

Attachment C type bracket (-BW) Part model No.: B820 Material: Steel Zinc plated

Rc1/8



Dimensions of options Auto-drain (F1)



F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL Outdrs FR

F.R.L (Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube

AirUnt

PrecsCompn Mech/

ContactSW

AirSens PresSW

Cool

AirFloSens/ Contr

WaterRtSens

TotAirSys Total Air

TotAirSys

RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg

etc **Ending**