

These products are manufactured at the ISO 14001 certified plant.

MAEDA SHELL SERVICE CO.,LTD.
is an air consultant for compressed air.

General-purpose **LA-MAN DRY FILTER**

Particle filtration efficiency: Removes 100% of solid particles of $3\mu\text{m}$ and 50% of $1\mu\text{m}$.

*Differs according to the model.

No moisture! No freeze-up! Remove 99% of oil droplet!
Low pressure loss and energy saving by special design!



日本設備管理学会
ものづくり大賞受賞

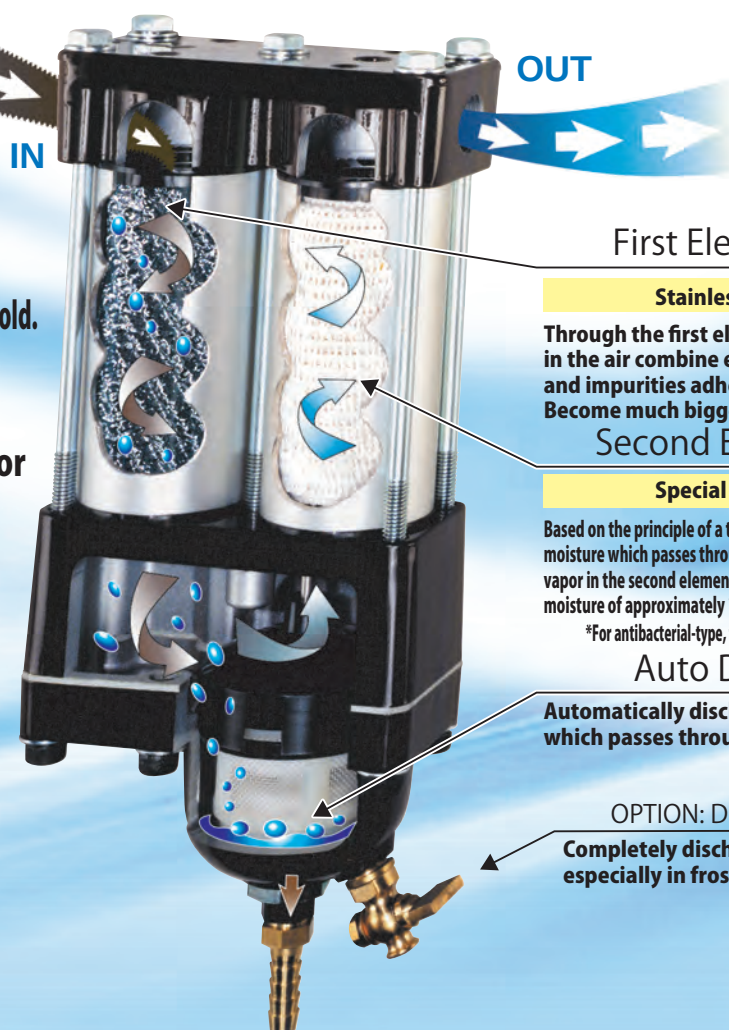


Aichi
Quality
認定番号032



モノづくり
グラン
NAGOYA

Patented in Japan,
the U.S. and Europe.



Available for antibacterial type to
prevent the growth of bacteria and mold.
("AB" is included in the Product No.)

Available for the unit with
regulator and with regulator
+oiler.

(La-Man FR Unit)

First Element

Stainless-steel

Through the first element, water droplets
in the air combine each other,
and impurities adhere to them.
Become much bigger water droplets.

Second Element

Special cotton

Based on the principle of a tornado, converts any liquid
moisture which passes through the first element into
vapor in the second element and produces dry air with
moisture of approximately 15% or less. (at the time of 0.7MPa)

*For antibacterial-type, the antibacterial agent is applied.

Auto Drain

Automatically discharges the drain
which passes through the first element.

OPTION: Drain Cock

Completely discharges the drain
especially in frosty temperatures.

*Part of the pictures is omitted.

La-Man Dry Filter [®]

- Space-saving compact size.
- Auto-Drain built in.
- Capable of intermittently using compressed air.
- Stable removal efficiency with low pressure loss.
- Greater cooling effect thanks to aluminum body.

Sales of
over
600,000
units!



Use application

- Precise measuring instruments
- Measuring device
- Injection-molding machines
- Robot measuring instruments
- Fabricating equipment
- Printing instruments
- Painting instruments
- Packaging machines
- Food processing instruments
- Air tool
- Solenoid valve
- Cylinder
- Other applications that require ultraclean air

Specifications

*AB is included in Product No. for Antibacterial-type. *M-103-5/M-103-AB-5 are not Auto Drain type. ●ℓ/min(ANR) is the volume in the atmospheric pressure condition.

Model		Working pressure MPa	Maximum flow ● At the time of ℓ /min(ANR) 0.7MPa	Solid particle removal μm	Operating temperature range ℃	Connection port Rc	Mass kg	Accessories
General type	Antibacterial type							
M-103-5	M-103-AB-5	0.3~1.71	300	5	5~60	1/4	1.1	Bracket Bracket screw Hose fitting Hose Push pin
M-105A-3	M-105A-AB-3	0.3~0.97	600	3		3/8	1.1	
M-105-4A-3	M-105-4A-AB-3		600			1/2	1.1	
M-105A-5	M-105A-AB-5		750	3/8		1.1		
M-105-4A-5	M-105-4A-AB-5		750	1/2		1.1		
M-110A-5	M-110A-AB-5		1,500	3/4		2.5		
M-120A-5	M-120A-AB-5		3,000	1		5.8		
M-140A-5	M-140A-AB-5		6,000	1-1/4		12.9		
M-160A-5	M-160A-AB-5		6,000	1-1/2		13.2		
M-180A-5	M-180A-AB-5		12,000	2		28.2		

Elements for replacement



elements

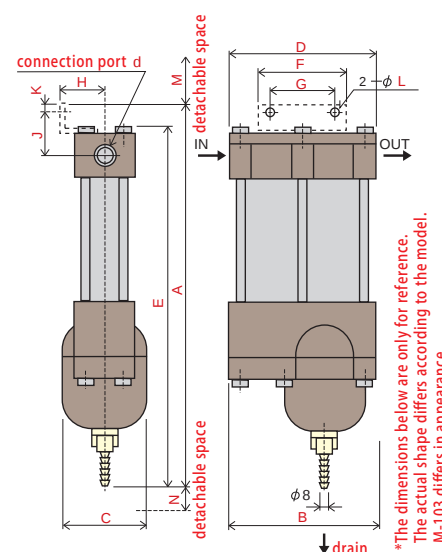
*M-103(AB)-5 differs in appearance.

Model	First Element (common)	Second Element	
		General type	Antibacterial type(AB)
M-103(-AB)-5	M-103-1F	M-103-2F-5	M-103-2F-AB-5
M-105A(-AB)-3	M-105-1F	M-105-2F-3	M-105-2F-AB-3
M-105-4A(-AB)-3			
M-105A(-AB)-5	M-105-1F	M-105-2F-5	M-105-2F-AB-5
M-105-4A(-AB)-5			
M-110A(-AB)-5	M-110-1F	M-110-2F-5	M-110-2F-AB-5
M-120A(-AB)-5	M-120-1F	M-120-2F-5	M-120-2F-AB-5
M-140A(-AB)-5	M-140-1F	M-140-2F-5	M-140-2F-AB-5
M-160A(-AB)-5			
M-180A(-AB)-5	M-180-1F	M-180-2F-5	M-180-2F-AB-5

Replace the elements after cleaning the areas where the top and bottom of the elements touch the body and the chamber and base of the body. Also, for maintaining performance, wash or replace the first element once every 2 years and replace the second element every 6 months. (1,000 hours)

Dimensions (unit: mm)

Model	Connection Port d (Rc)	A	B	C	D	E	F	G	H	J	K	L	M	N
M-103(-AB)-5	1/4	—	76	35	90	227	—	78	17	22	32	Φ5.2	50	50
M-105A(-AB)-3	3/8	269	108	60	102	251	62	48	33	31	6	Φ6.5	100	55
M-105-4A(-AB)-3	1/2													
M-105A(-AB)-5	3/8													
M-105-4A(-AB)-5	1/2													
M-110A(-AB)-5	3/4	353	152	80	150	330	87	62	47	38	12	Φ8	120	90
M-120A(-AB)-5	1	426	199	103.5	200	404	106.5	81.5	49	40	12	Φ8	170	90
M-140A(-AB)-5	1-1/4	553	284	134.5	285	527	162	119	82	46	17	Φ13	250	110
M-160A(-AB)-5	1-1/2													
M-180A(-AB)-5	2	727	385.6	177.8	385	700	213	170	114	60	17	Φ13	340	150



Flow Characteristics

— 0.3MPa — 0.5MPa — 0.7MPa — 0.9MPa

