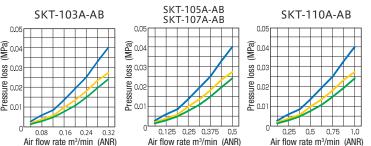
Antibacterial · Bacteria eliminable 3in1 Multi Dry Filter Skeleton®

Specification * L/min (ANR) is a unit of capacity under an atmospheric pressure.

Filter model	SKT-103A-AB	SKT-105A-AB	SKT-107A-AB	SKT-110A-AB						
Working pressure MPa	0.3~0.7									
Service temperature range °C	5~40									
Removal of solid particles μ m	0.01 In compliance with ISO 8573-1 and JIS B 8392-1 solid particulate class 1									
Secondary side oil concentration mg/m³	0.01 In compliance with ISO 8573-1 and JIS B 8392-oil class 1									
Max. flow rate L/min (ANR) for 0.7 MPa	300	50	1000							
Connection diameter Rc	1/4	3/8	1/2	3/4						
Weight kg	1.1	1.	2.4							
Exchangeable element model	First element									
	T-10309	T-10	SST-10709							
	Second element, oil mist element (set)									
	T-103FS-AB	T-105	SKT-110FS-AB							
Accessories	Bracket, bracket bolt, push pin									

Flow rate characteristics chart —— 0.3MPa —

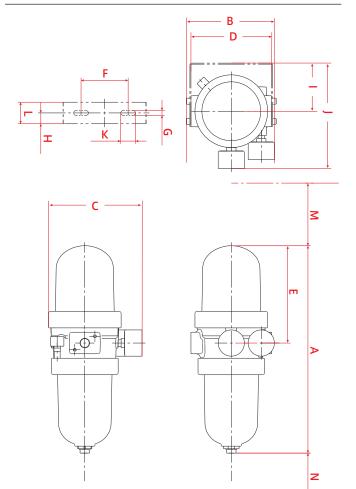


Maintenance

< Dealer >

- Replace or wash the first element every two years.
- Replace the second element and oil mist element every 6 to 10 months (approx. 1,000 hours). A differential pressure (10%) observed on the air gauge indicates that the element needs replacement
- * An air gauge is not provided for SKT-103A-AB.
- Water-wash or replace the auto drain every 6 to 10 months.
- * The warranty period of the auto drain is one year.
- Check the housing and bowl monthly for cracks, flaws and deterioration. Cracks, flaws and deterioration will cause damage to the housing and bowl. Replace a housing or bowl that has cracks, flaws or deterioration.
- Use water or neutral detergent for washing the housing and bowl. Use of other detergents, cleaning liquids or solvents will cause damage to the housing and bowl.
- Replace the housing and bowl within five years after start of use. Mark the first date of use on a seal attached to the main body and manage the record.
- When pressure is constantly applied (for 24-hour operation, for example), the oil mist valve does not work. In such a

Dimensional drawing



											(Unit: mm)				
	Filter model	Α	В	C	D	Е	F	G	Н	Τ	J	K	L	М	N
1	SKT-103A-AB	260	95	105.5	80	102	50	5.6	15	74	133	10	30	100	65
	SKT-105A-AB SKT-107A-AB	307.6	130.5	139	120	144.5	70	7	16	72	157	22	32	110	75
	SKT-110A-AB	453	130.5	146	120	256	70	7	17.5	72	161	22	35	205	95

The dimensions in the above table are reference values. For a formal dimensional drawing, please contact us.

Safety test

times the working pressure upper limit



◆Repeated pressurization In an endurance strength test in which the working pressure upper limit (0.7 MPa) (internal pressure) is repeatedly applied, durability of 3 million

Safety precautions that must be followed

■ Use the product within the specifications ■ The housing and the how are made from polycarbonate. Use under the following atmospheres or at places exposed to or in contact with them are strictly prohibited: thinner. acetone, alcohol, ethylene chloride and other organic solvents, sulfuric acid, nitric acid, hydrochloric acid and other chemicals, sodium hypochlorite, oil mist, chlorine, leakage detection liquid, cutting oil, synthetic oil, ester-based compressor oil, alkali, kerosene, gasoline, and screw locking adhesive.

Do not give an impact on the filter main body or drop it.

Even under proper working conditions, use of a filter exceeding five years may cause damage due to aged deterioration. Replace both the housing and the bowl within five years after start of use.

Before using the product, make sure to read the operation manual, and use the product in a safe and

For **3in1 HACCP** ISO22000 FSSC22000 Multi **Dry Filter Skeleton**®





Visualization has been realized, allowing secure use even in food plants.

- ◆ The transparent design clearly shows the dirt attached to the element.
- **◆** Three different filter functions are mounted in

For use where very clean air is required:

Simple structure facilitates element replacement.



Oil mist element

Compressed air filter (Antibacterial type with bacteria elimination)

Removes oil mist, bacteria, mold and solid particles of at least 0.01 µm with 7-layer

Pressure gauge

Approx. 10% lower pressure at the secondary side than the primary side is a sign of element clogging, allowing control in combination with visual checks.

A pressure gauge is not provided for SKT-103A-AB



Oil mist valve

OUT

Inner structure

When pressure is constantly applied (for 24-hour operation, for example), the oil mist valve does not work. In such a case, it is recommended to install an optional manual oil mist valve.

First element

Separates 95% of water and oil droplets from compressed air through centrifugal separation.

Second element

Removes water and oil droplets and solid particles of at least 5 µm with special cotton elements. When the droplets pass through the special cotton elements, a vacuum is generated, and the droplets vaporize into dry air.

Auto drain

Drain flown in from the first element is discharged automatically.

* The warranty period is one year

When air leaks insert an attached pin and move it up and down, so that a normal state will be achieved

Maeda Shell Service serves as a compressed air consultant. For inquiries about compressed air, contact us.

MAEDA SHELL SERVICE CO., LTD.









Compressed air filter (Antibacterial type with bacteria elimination)







For HACCP ISO22000 FSSC22000

Antibacterial · Bacteria eliminable

3in1 Multi Dry Filter Skeleton®

Dirt attached to the element can be visually controlled.

The three performance-specific elements carry out step-by-step filtration and allow for secure use in food and pharmaceutical manufacturing and in cosmetic plants.



Bacteria elimination performance

Bacteria reduction LRV ≥ 9

Antibacterial performance

Antibacterial activity: 4

Filtration performance

Filtration rating: 0.01 μm

Secondary side oil concentration: 0.01 mg/m³ or less

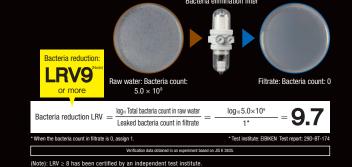
Translucent polycarbonate body enables dirt to be seen



As the main body is translucent, dirt attached to the element can be easily seen and visually controlled. Since special engineering plastic is used, the body is free from corrosion. The housing and bowl can be washed with water and kept clean.

POINT 01 Bacteria elimination performance

Bacteria elimination filter captures bacteria to prevent invasion.



POINT 02 Bacteria growth prevention performance

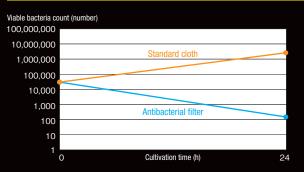
'The antibacterial effect has been verified by Japan Food Research Laborato Test report (No. NA 69090

Antibacterial-treated elements prevent bacteria growth.



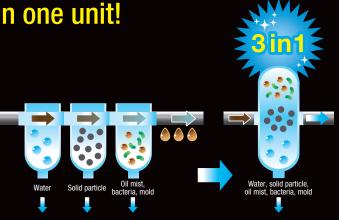
The element keeps out microorganisms contained in compressed air, suppresses growth of harmful bacteria and mold, and supplies clean air. (Second element, oil mist element)

Antibacterial activity: 4



Silver-based antibacterial agent prevents growth of bacteria and kills bacteria. Antibacterial activity = Proliferation of viable bacteria in standard cloth (common logarithm value) - Proliferation of viable bacteria in antibacterial-finished cloth (common logarithm value) * Test institute: EIBIKEN Test report: 280-BT-371

Unique structure carrying three different filter functions in one unit!



POINT 03 Filtration performance

Step-by-step filtration by three performance-specific elements



Filtration rating: 0.01 µm

S08573-1 Solid particulates Class 1 certified. est institute: Hitachi Industrial Equipment Drive & Solutions Test report: S16026

Secondary side oil concentration: 0.01 mg/m³ or less

Test institute: Hitachi Industrial Equipment Drive & Solutions Test report: S1602

POINT 04 Simple structure

The element can be replaced in just 60 seconds without using a tool.



POINT 05 On-site measurement

mplemented by HACCP coordinato

Maeda measures
the cleanliness of
compressed air on-site
using patented technology

ssed air on-site atented technology.

rvice thoroughly analyzes each customer's air quality with its

Maeda Shell Service thoroughly analyzes each customer's air quality with its own service system. From investigation into a cause to improvement plan recommendations, Maeda's exclusive coordinator supports customers.