What is important for air is anti-bacterial and removing properties

Proprietary anti-bacterial filter

Non-woven fabric filter element

Using silver-based anti-bacterial agents

Anti-bacterial power

Proprietary bacteria removing filter

Hollow fiber membrane

Removal rate 99.999999%

Bacteria removing power

Bactericidal activity value 4 or more

Bacteria trapping performance

LRV≥8

compressed
bacteria

Food Process®

SFC430-15-FP2
6615

Fp Food Process

MAX. LEVEL

⚠ WARNING

The background is a simulated image.

Videos available here

Reliable anti-bacterial and bacteria removing power with a module type triple block design

| Anti-bacterial pre-filter | High-performance anti-bacterial filter | Bacteria removing filter |

FDA
compatible materials
Fluid passage section
Resin/Rubber

4 or more
Bactericidal
activity value

LRV8
or higher
Bacteria trapping
performance

Materials compatible
with the Food
Sanitation Act
Fluid passage areas
made of resin/rubber

Uses
NSF H1
food-grade
grease

External parts
Anti-bacterial
material used

New

Odor removal filter added
Uses fiber activated carbon.
With a large activated carbon
adsorption area, it realizes high
suction performance and long life.

SUS used for push ring
Risk of contamination is reduced,
allowing for installation near the
use point without worries.

Maintenance

Replaceable elements
Elements are easy to replace.

Equipped as standard with maintenance seal
*Attached with the product.
The replacement period is clearly indicated.

SUS specification

Maintenance label

Replace
with new

Element

Discard
used

* The bactericidal activity value and bacterial trapping performance value are actual values based on predetermined conditions set by CKD.
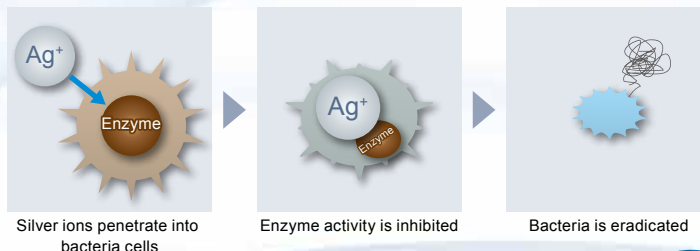
Anti-bacterial

Proprietary anti-bacterial filter — Stops bacteria growth!
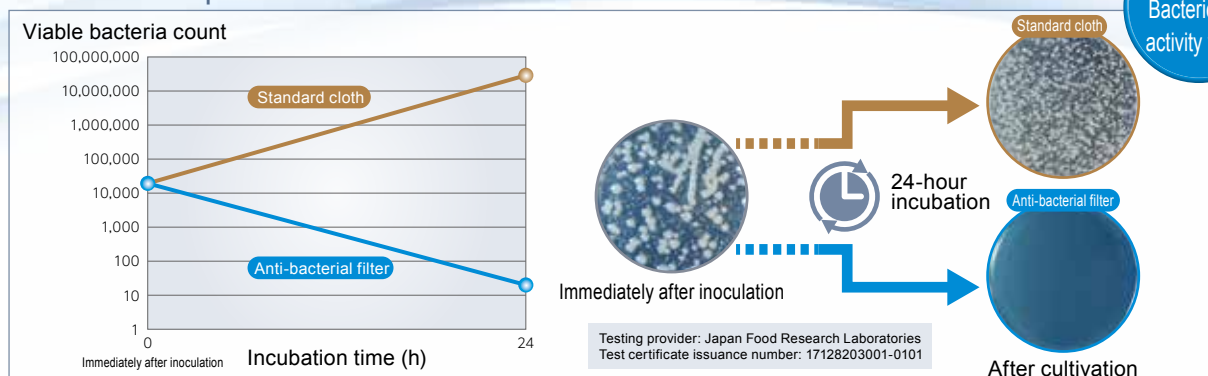
Non-woven fabric filter element that uses silver-based anti-bacterial agent

Non-woven fabric uses silver-based anti-bacterial agent

The silver ions included in the anti-bacterial filter are absorbed into the bacteria cells, the bacteria enzyme's actions are obstructed, and they die out.

Ag+ / Enzyme

Silver ions penetrate into bacteria cells

Ag+ / Enzyme

Enzyme activity is inhibited

Bacteria is eradicated

Anti-bacterial performance

4 or more Bactericidal activity value

Viable bacteria count

100,000,000
10,000,000
1,000,000
100,000
10,000
1,000
100
10
1

Standard cloth

Anti-bacterial filter

Immediately after inoculation | Incubation time (h) | 0 ... 24

Standard cloth

Immediately after inoculation

24-hour incubation

Anti-bacterial filter

After cultivation

Testing provider: Japan Food Research Laboratories
Test certificate issuance number: 17128203001-0101

Verification data from tests based on JIS L 1902:2015

Bacteria Removal
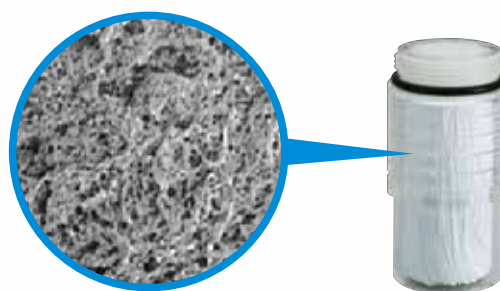
Proprietary bacteria removing filter — Removes bacteria!

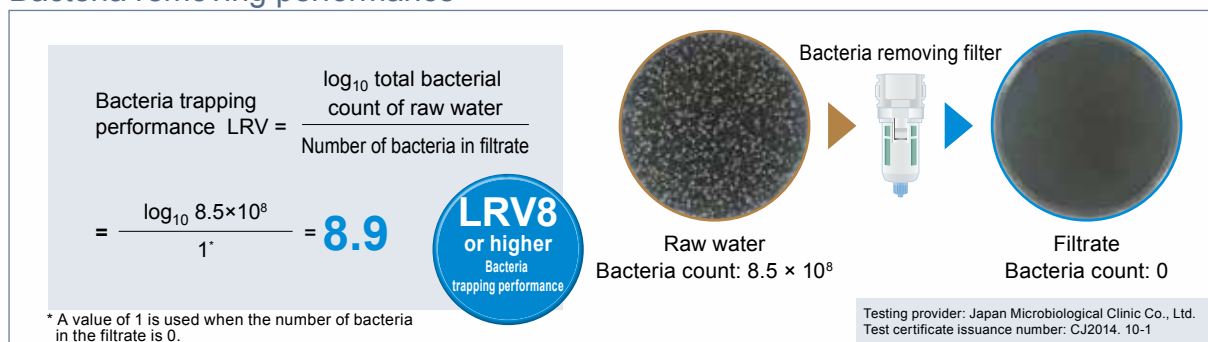### Removal rate 99.999999% hollow fiber membrane

Hollow fiber membrane

The bacteria removing filter consists of a straw-shaped fiber membrane with a countless number of special slit-shaped ultrafine pores.
These pores trap bacteria when the compressed air passes through.

Bacteria removing performance

Bacteria removing filter

$$\text{Bacteria trapping performance LRV} = \frac{\log_{10} \text{total bacterial count of raw water}}{\text{Number of bacteria in filtrate}}$$

$$= \frac{\log_{10} 8.5 \times 10^8}{1^*} = 8.9$$

LRV8 or higher Bacteria trapping performance

Raw water
Bacteria count: 8.5×10^8

Filtrate
Bacteria count: 0

* A value of 1 is used when the number of bacteria in the filtrate is 0.

Testing provider: Japan Microbiological Clinic Co., Ltd.
Test certificate issuance number: CJ2014. 10-1

Verification data from tests based on JIS K 3835