DAIKIN | Positively Innovative

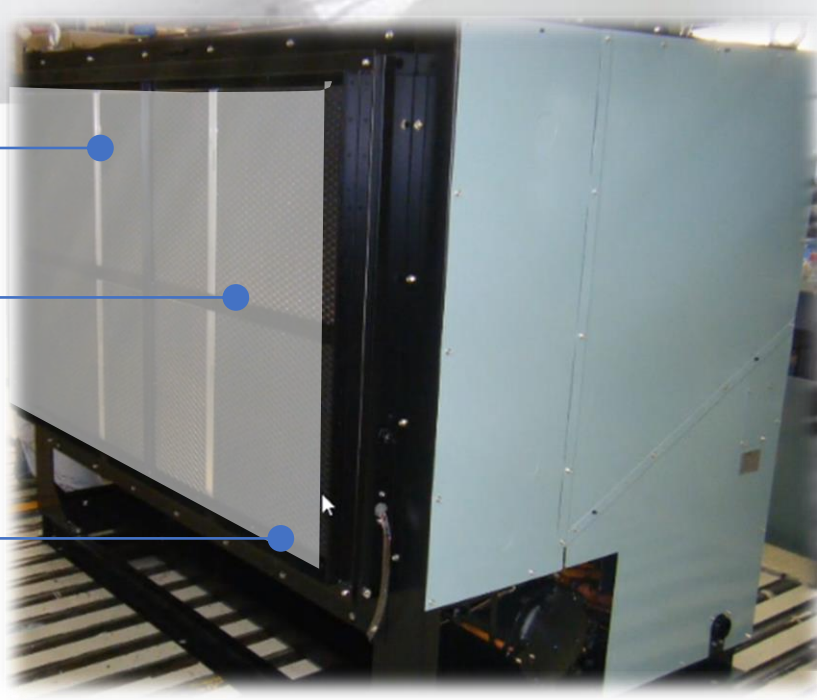
Antimicrobial Filter for MARINE Air Conditioners

MARINE TYPE

Antimicrobial & Antivirus Filter

Contribute to the maintenance – Refreshing air by preventing mold stains, odors, dust and certain viruses.

Antimicrobial & Antivirus | Antifungal | Deodorize | Long Stability



99.995%

Antimicrobial

A high degree of virus reduction with antifungal agents.

Antifungal

Inhibits the growth of specified mold and Removes mold smell.

Washable

Can be washed with water.
Always Keep the filter clean.

Washable and Reusable about 5~6 times

■ **Models Installed**

DAIKIN MR ENGINEERING CO., LTD.

Antivirus Performance Evaluation

[Virus Test]

To Specified Virus

Initial infectious titer	6.86
Titer after 2 hrs. reaction	2.56
Antivirus reduction value	4.3

REDUCED VALUE 99.995%

Reduced by antifungal agent in the filter

①**Evaluation Method** [Nissenken Quality Evaluation Center: Plaque test]:
Inoculate the test cloth with the test virus. Contact at 25°C for 2 hours. Wash out the virus from the sample and dilute. Infect the test cells with the diluted solution and measure the number of white cells.
② The data is not guaranteed value.

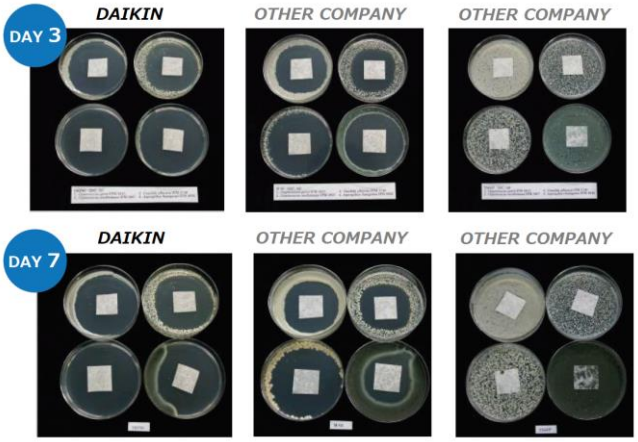
Antimicrobial/antifungal performance evaluation

GREATER LEVEL OF PROTECTION

[Performance Evaluation]

Evaluation shows DAIKIN filter has a high Antimicrobial and antifungal effect against specific bacteria and mold.

■ Medical Mycology Research Center (MMRC), Chiba University
Evaluation Methods: JISZ2911:2010 “Test for fungus resistance”



Evaluation methods
1. Two layers of agar medium were used, the lower layer was PDA medium, and the upper layer was PDA medium, and 104 cells/ml (final concentration) of spores of each bacterial species was added. Mold-free non-woven fabric DKF60, mold-free untreated TN60P, competitor's product M-02 was cut into 3 mm x 3 mm each, placed on the above agar medium, cultured at 25°C, and evaluated on the 3rd and 7th days.

2. To each sample (1 cm x 1 cm), 1 mm of a spore suspension having a concentration of 105 cells/ml of each bacterial species was dropped, placed on a PDA medium, cultured at 25°C, and evaluated on the 3rd and 7th days.

Evaluation results
The antifungal treated non-woven DKF60 showed a strong antifungal activity against all the cultured bacterial species in the test conducted this time. Also, the effect of Method 1 was slightly stronger than that of the competitor's product M-02, but no difference was observed in the effect of Method 2.

*The data is not guaranteed value.

APPLICATION

Air conditioner for ships
[e.g.] USD series (Deck Unit), USP series (Packaged Air Conditioning), USF series (Packaged Air Conditioning for Galley), and others including inside the duct, etc.

■ Specifications (For DKF150DX)

Type	Size (mm)	Weight(g)	Rated Wind Speed (m/s)	Initial Pressure Loss(pa)	Final Pressure Loss(pa)	Average Efficiency(%)
Ceiling Mounted [Indoor Unit]	L570×W570 ×H3.7	60	2.5	24	50	46 ※
Made-to-order	※Depending on each specification.					

※ Based on gravimetric method

REFRESH THE AIR

[INQUIRY]

Global Offices
DAIKIN MR ENGINEERING CO., LTD. (SINGAPORE BRANCH)
9 Tampines Grande #03-11 Singapore 528735
DAIKIN MARINE (SHANGHAI) CO., LTD
Room G, 19F, No.1 Plaza, 800 Nanjing East Road,
Huangpu, Shanghai, 200001, China
TEL: +86-21 6322 4198 TEL: +86-21 6322 4199
http://daikin-marine.com/em

https://www.daikin.co.jp/group/dmre/english/