



UK.SAF-UVC

UV GI Accessory for Ducted Units

This accessory provides a UVC solution for Daikin ducted units. The specially designed plenum houses UVC tubes, which irradiate the air stream and deactivate pathogens.* The accessory can be attached to a Daikin ducted unit in new installations or as a retrofit.

These plenums have been designed to be attached to Daikin slim and standard ducted units on the supply air side for Split and VRV systems. The plenums are provided as separate accessories and can be fitted to the duct; ductwork is then attached to the spigots. Access hatches on the top and bottom of the box allow the UVC tubes to be added or changed as required.

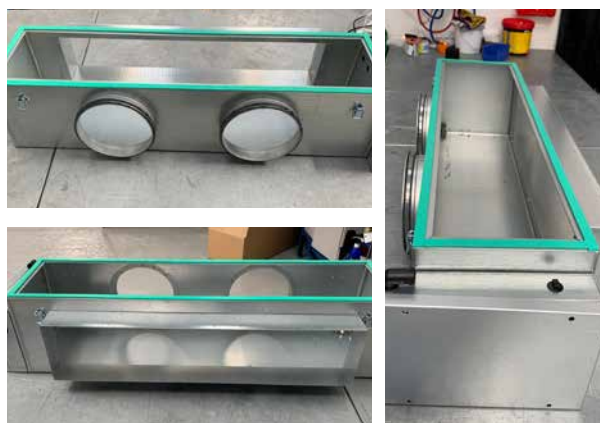
What is UVC? And what is its impact on pathogens?

Daikin has collaborated with the UK distributor of US-manufactured UVC tubes; e-co. Working together, using each other's expertise, Daikin and e-co have created a UVC solution that can be safely and effectively added to a DX system.

UVC operates in the 200 NM wavelength. Irradiation with UVC disrupts pathogen cell structures, rendering them harmless.*

Direct exposure to UVC can cause reddening of the skin and eye damage. However, the UVC tubes are fully enclosed within the accessory structure, offering a completely safe and reliable solution.

*specific claims regarding the effectiveness of UVC and its ability to deactivate Pathogens are made solely by Sterile Air (through its UK distributor e-co), and not verified or endorsed by Daikin UK.



UV GI Accessory for Ducted Units

Specifications

FCU Model	Material Code	Plenum Width (mm)	Plenum Height (mm)	Air Volume M3/s (Nom)	Air Velocity M/s (Nom)	Single UVC EGTS Emitter length (inches)	Av. % Single pass Covid-19 Reduction rate (90%)	Av. % Single pass Covid-19 Reduction rate (99%)
FDXM25F9	UK.SAF5 UVGI	750	200	0.133	0.887	24	100%	99%
FDXM35F9	UK.SAF5 UVGI	750	200	0.133	0.887	24	100%	99%
FDXM50F9	UK.SAF7 UVGI	1150	200	0.243	1.057	42	100%	99%
FDXM60F9	UK.SAF7 UVGI	1150	200	0.246	1.070	42	100%	99%
FXDQ15A3/FXDA15A	UK.SAF5 UVGI	750	200	0.117	0.780	24	100%	99%
FXDQ20A3/FXDA20A	UK.SAF5 UVGI	750	200	0.120	0.800	24	100%	99%
FXDQ25A3/FXDA25A	UK.SAF5 UVGI	750	200	0.120	0.800	24	100%	99%
FXDQ32A3/FXDA32A	UK.SAF5 UVGI	750	200	0.120	0.800	24	100%	99%
FXDQ40A3/FXDA40A	UK.SAF6 UVGI	950	200	0.158	0.878	30	100%	99%
FXDQ50A3/FXDA50A	UK.SAF6 UVGI	950	200	0.183	1.017	30	100%	98%
FXDQ60A3/FXDA60A	UK.SAF7 UVGI	1150	200	0.242	1.052	42	100%	99%

Calculations are based on medium fan speed, values will vary depending on fan speed. UVC reduces in effectiveness with age and it is recommended that the tubes are changed after 9000 hours of operation.

As well as the accessory pack above to complete the solution you also need to order the UVC tube module from the table below:

FCU Model	Material Code	Single UVC EGTS Emitter length [inch's]
FXSQ15/20/25/32A & FXSA15/20/25/32A	UK.UVE16	16
FXSQ40/50A & FXSA40/50A & FBA35/50A9	UK.UVE20	20
FXSQ63/80A & FXSA63/80A & FBA60/71A9	UK.UVE36	36
FXSQ100/125A & FBA100/125/140A	UK.UVE50	50
FXSQ140A & FXSA140A	UK.UVE50	50
FDXM25/35F9 & FXDQ15/20/25/32A3 & FXDA15/20/25/32A	UK.UVE24	24
FXDQ40/50A3 & FXDA40/50A	UK.UVE42	42
FDXM50/60F9 & FXDQ60A3 & FXDA60A	UK.UVE30	30

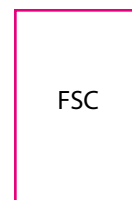
UVC emitter details

EGTS emitter class SE number based on length in inches, the tubes produce no ozone or other secondary contaminants. UVC tube is included with the plenum.

Terms and conditions

Pathogen reduction claims and report provided by e-co. Daikin does not warranty against the effectiveness of UV technology in reducing Pathogens nor does it warranty against the specific reductions that are indicated in the reports provided by e-co. Daikin accessory will only function with e-co UVC tubes and Daikin does not warranty the equipment for use with other UVC tube makes.

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UVGI Accessory

for Daikin Standard Duct Unit FBA and FXSQ/FXSA

UK.SF-UVC

UVGI Accessory for Ducted Units

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These plenums have been designed to be attached to Daikin slim and standard ducted units on the supply air side for Split and VRV systems. The plenums are provided as separate accessories and can be fitted to the duct; ductwork is then attached to the spigots. Access hatches on the top and bottom of the box allow the UVC tubes to be added or changed as required.

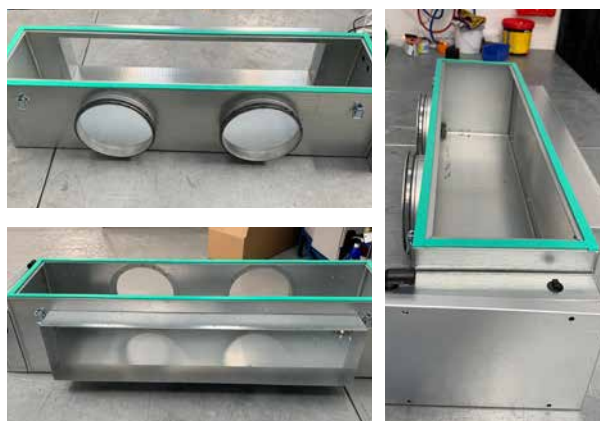
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UV GI Accessory for Ducted Units

Specifications

FCU Model	Material Code	No. of spigots	Plenum Width (mm)	Plenum Height (mm)	Air Volume M3/s (Nom)	Air Velocity M/s (Nom)	Single UVC EGTS Emitter length (inches)	Av. % Single pass Covid-19 Reduction rate (90%)	Av. % Single pass Covid-19 Reduction rate (99%)
FXSQ15A	UK.SF1 UVGI	1	550	245	0.125	0.947	16	100%	93%
FXSQ20A	UK.SF1 UVGI	1	550	245	0.125	0.947	16	100%	93%
FXSQ25A	UK.SF1 UVGI	1	550	245	0.125	0.947	16	100%	93%
FXSQ32A	UK.SF1 UVGI	1	550	245	0.133	1.008	16	100%	77%
FXSQ40A	UK.SF2 UVGI	2	680	245	0.208	1.275	20	100%	55%
FXSQ50A	UK.SF2 UVGI	2	680	245	0.208	1.275	20	100%	55%
FXSQ63A	UK.SF3 UVGI	2	980	245	0.300	1.276	36	100%	74%
	UK.SF3A UVGI	3							
FXSQ80A	UK.SF3 UVGI	2	980	245	0.325	1.382	36	100%	63%
	UK.SF3A UVGI	3							
FXSQ100A	UK.SF4 UVGI	4	1380	245	0.450	1.359	50	100%	68%
FXSQ125A	UK.SF4 UVGI	4	1380	245	0.525	1.585	50	100%	50%
FXSQ140A	UK.SF4L UVGI	4	1530	245	0.567	1.712	50	96%	48%
FBA35A9	UK.SF2 UVGI	2	700	245	0.208	1.238	24	100%	69%
FBA50A9	UK.SF2 UVGI	2	700	245	0.208	1.238	24	100%	69%
FBA60A9	UK.SF3 UVGI	2	1000	245	0.250	1.042	36	100%	99%
	UK.SF3A UVGI	3							
FBA71A9	UK.SF3 UVGI	2	1000	245	0.250	1.042	36	100%	99%
	UK.SF3A UVGI	3							
FBA100A	UK.SF4 UVGI	4	1400	245	0.433	1.289	50	100%	75%
FBA125A	UK.SF4 UVGI	4	1400	245	0.483	1.438	50	100%	60%
FBA140A	UK.SF4 UVGI	4	1400	245	0.483	1.438	50	100%	60%

Calculations are based on medium fan speed, values will vary depending on fan speed. UVC reduces in effectiveness with age and it is recommended that the tubes are changed after 9000 hours of operation.

As well as the accessory pack above to complete the solution you also need to order the UVC tube module from the table below:

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FXSQ100/125A & FBA100/125/140A	UK.UVE50	50
FXSQ140A & FXSA140A	UK.UVE50	50
FDXM25/35F9 & FXDQ15/20/25/32A3 & FXDA15/20/25/32A	UK.UVE24	24
FXDQ40/50A3 & FXDA40/50A	UK.UVE42	42
FDXM50/60F9 & FXDQ60A3 & FXDA60A	UK.UVE30	30

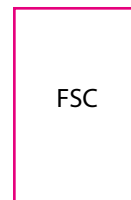
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UK. PA604

Plasma Ionisation Accessory

Daikin's plasma ionisation unit provides a continuous stream of ionised particles. Using Plasma Air's Bi-Polar Ionisation system, it neutralises pathogens such as bacteria, viruses, moulds and odours. The unit can be fitted into the return air side of most Daikin's indoor units.

The Plasma Air 600 Series Model 604 is a needlepoint brush-type ioniser. It produces an equal amount of positive and negative ions to neutralise harmful pollutants and odours. Each ionisation unit is capable of ionising a supply airflow of 4000 m3/hr.

The plasma Air Bi-Polar Ionisation system

The 600 Series is a versatile choice and can be installed at the fan inlet of the majority of Daikin's fan coils. The unit is self-contained in a potted ABS box with a moulded flange and mounting holes and is protected with an inline 500mA glass cartridge fuse.



Features and benefits

- › Silent and invisible
- › Independently proven safe and effective for continuous use
- › Easy to install in existing or new HVAC systems*
- › Requires no replacement parts
- › 3-year standard warranty
- › Tested and passed UL 867 for ozone and safety

* the UK.PA604 must be installed as defined by Daikin installation instructions.

Applicable Daikin units



Ducted units



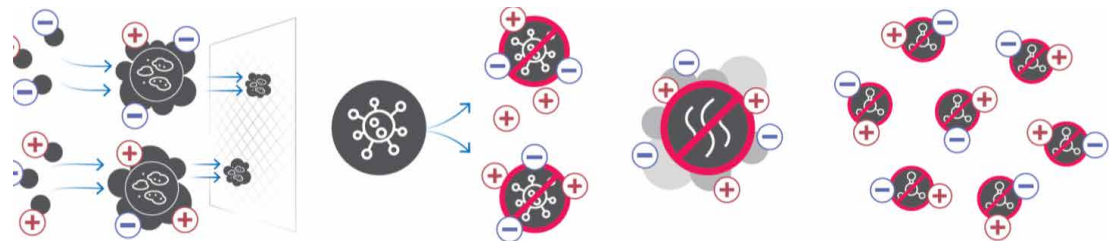
Roundflow Cassettes

Fully Flat Cassettes

Plasma Ionisation Accessory

How bipolar ionisation improves indoor air quality

Plasma Air technology produces a natural bio-climate rich in positive and negative oxygen ions. The negative ions contain an extra electron while the positive ions are missing an electron, resulting in an unstable condition. In an effort to restabilise, these bipolar ions seek out atoms and molecules in the air to trade electrons with. This action effectively neutralises particulate matter, bacteria and viruses, odorous gases and aerosols, and VOCs.



Particulate

Airborne particles, such as smoke, dust, pollen and spores are charged by the ions through ionic bonding. These charged particles stick together increasing their size and allowing them to be easily removed by low-grade filters.

Bacteria and viruses

As they divide to reproduce, bacteria and virus cells bond with oxygen ions and are destroyed.

Odorous gases

Odorous gases and aerosols oxidise on contact with oxygen ions and are neutralised.

Volatile organic compounds

Oxygen ions cause a chemical reaction with VOCs breaking down their molecular structure.

Comparison information provided by PlasmaAir*

	Bipolar Ionisation	PCO	Ozone Generators	Traditional Filtration	HEPA/Fine Grain filters	Carbon
Effectiveness	99%	Marginal	99%	Minimal	0-99.7%	Marginal
Particle Size	Small < 2.5µm	Large > 5µm	Small < 2.5µm	Large > 5µm	Small < 0.3µm	N/A
Treats in Room Air	YES	YES	YES	NO	NO	NO
Replacement Parts Needed	NO	YES	YES	YES	YES	YES
Maintenance Required	NO	YES	YES	YES	YES	YES
Produces Harmful Byproduct	NO	YES	YES	NO	NO	NO
Energy Costs	£	££	£	££	£££	£££

Terms and conditions

Daikin does not warranty against the effectiveness of Plasma Air Bi-Polar Ionisation system in reducing pathogens. Daikin Duct will only function with Plasma Air Bi-Polar Ionisation system and Daikin warranty the equipment for a period of 3 years from the date of purchase based on failed or malfunctioning product purchased.

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