



Plasma Ionisation Accessory

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

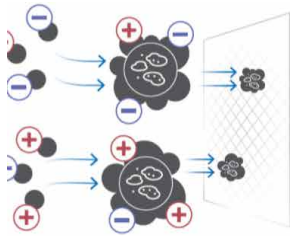
Roundflow Cassettes

Fully Flat Cassettes

Plasma Ionisation Accessory

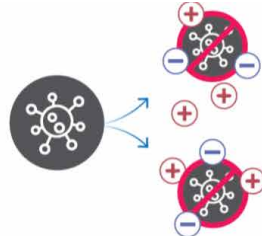
How bipolar ionisation improves indoor air quality

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.



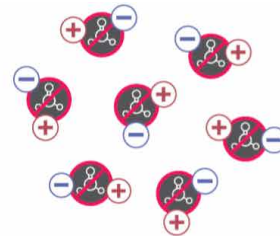
Bacteria and viruses

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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