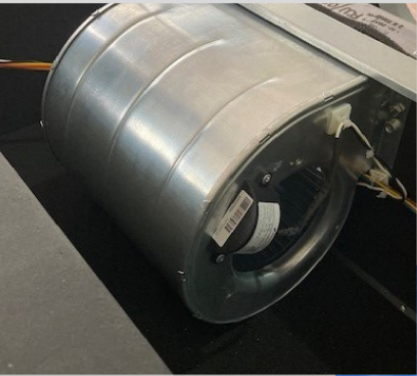


Scope of works

Ilbex House is an eleven storey Art Deco office building on the east side of the City of London and it recently had a CAT A office fit out. Part of the mechanical works package was for each fan coil unit (FCU) to be retro-fitted with a bipolar ioniser.



Overview

Beatties Mechanical installed a number of Plasma Air PA604 ionisers to the new fan coil units (FCU). These were retrofitted on site and installed within the fan chamber of the horizontal chassis type fan coil units, ensuring the positioning was correct to provide the maximum amount of ions.

Installation

**Mechanical
Contractor**

**LOCATION:
Ibex House, London**

**CLIENT:
Sale Group**

**CONSULTANT:
MTT**

The Plasma Air Model PA600 is a needle point brush type ionizer producing an equal amount of positive and negative ions. This ionization equipment is effective in reducing harmful pollutants and odours by introducing positive and negative ions into the system airflow. This unit is highly versatile as it may be installed in an air handling unit, fan coil unit, PTAC, heat pump and even a ductless split system. The model PA600 is self-contained in a potted ABS box which has moulded flanges with mounting holes. Models are available to accept 12V DC, 24V AC, 120V AC and 230V AC without the use of an external power supply device as the units take their power from the FCU and do not affect the energy efficiency of the FCU, as they offer negligible resistance to airflow.

Bipolar ionisation technology is designed to distribute high volumes of ions into a space to potentially remove viruses and other pathogens from the breathing zone. If selecting these systems for pathogen mitigation, they are most effective when added to local ventilation plant and terminal devices such as fan coil units. They are ideally deployed close to the point of use, as the ions lose their charge over time as they travel through long lengths of ductwork. Systems fitted to AHUs will primarily act to improve the quality of air being delivered to the space by reducing levels of harmful ultrafine particulate and VOCs in the outdoor air, they will have less effect on the air being re-circulated by the fan coils.