

ENERGY & COST SAVINGS

ENSURING YOUR LONG-TERM PEACE OF MIND.

VALUE ADDED SERVICES

BIPOLAR IONISATION

Daikin Air Handling Systems

ABOUT DAIKIN APPLIED ASIA & OCEANIA

Engineered for Performance and Flexibility

- Daikin Group is global leaders in the Air Conditioning sector.
- 96,000 employees globally.
- Over 100 Production manufacturing sites across the world.
- Providing technological solutions in more than 170 countries in the world.
- Daikin Applied Asia & Oceania is a subsidiaries under Daikin Industries Ltd Group (“Daikin”) of companies.



DAIKIN APPLIED VALUE ADDED SERVICES

BIPOLAR IONIZATION SOLUTION

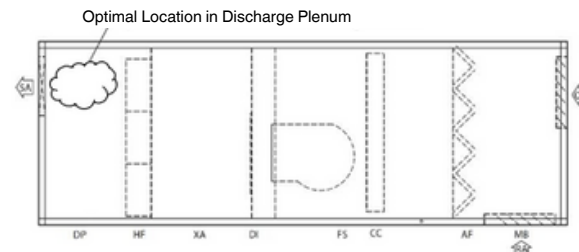
High-Efficiency, Chemical- Free Air Purification in Air Handling Systems

As buildings become more energy efficient, they are less likely to circulate fresh, clean air - and more likely to accumulate unsafe levels of particles, bacteria, mold spores and volatile organic compounds (VOCs).

Bipolar ionization makes HVAC more sustainable by recycling the cleanest indoor air possible and reducing outside air intake, which lowers energy bills and reduces operating expenses.

- 90% reduction in VOCs and up to a 95% reduction in particles
- 3-year installation cost payback
- Contributes to LEED and WELL building standards

APPLICATION & PLACEMENT



Mounted in the discharge plenum of an air handler, operation only occurs when airflow is present. Thus, power to the ionization unit should be interlocked with fan operation or controlled via an air pressure switch.

QUANTITY & SELECTION

Indoor Air Quality Level Selection Table

500FC



508FC



ASHRAE 62.1 Indoor Air Quality Class	Indoor Air Quality Level	Building Description
I	A	Residences, Airports, Office Spaces, Schools/Classrooms, Day Care Centers
II	B	Nursing Homes, Locker Rooms, Manufacturing, Food Processing, Restaurants
III	C	Beauty Salons, Casinos, Waste Water Applications, Industrial Facilities, Garbage Rooms, Kennels
IV	NA	Exhaust to outdoors

There are two models designed for use in Daikin air handling systems: model 500FC, which has 5 tubes and model 508FC, which has 8 tubes.

- 20-40% reduction in HVAC Energy Expenditures.
- 4-8% reduction on ENTIRE utility bill.
- 15% reduction in Equipment.
- Potential 20-30% reduction in HVAC tonnage/plant sizes.

1. INCOMING POLLUTED AIR

2. IONIZATION TAKING PLACE

3. BI-POLAR IONIZATION

4. BI-POLAR IONS REACT WITH PM, VOCs, BACTERIA, VIRUSES, GERMS

5. ATMOSAIR IS THE ONLY TECHNOLOGY TO CLEAN AIR WITHIN A SPACE