THE WORLD LEADER IN CLEAN AIR SOLUTIONS

# PurAir 350C

CEILING MOUNTED UNIT


Bringing clean air to life.®

AAF®
INTERNATIONAL
a member of DAIKIN group

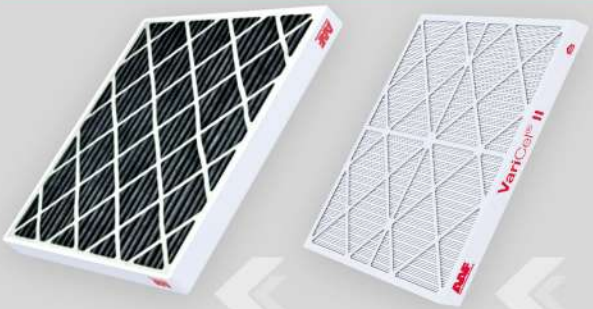
# PurAir 350C

## Ceiling Mounted Unit

### Specification

| | |
|---|---|
| Air flow | 400 CMH |
| CADR | 350 CMH |
| Filtration Efficiency | >99% Integral |
| Filtration Space | 100 Sqft / 9.3 Sqm @12 ACPH |
| Housing Colour / Material | White / GI or SS |
| Filter configuration | MegaPleat M8 > AmAir C > UV > MegaCel II (eFRM) Or<br>MegaPleat M8 > Varicel II > UV > MegaCel II (eFRM) |

MEGApleat® M8



AmAir®/C Or VariCel® II

UV Light

MEGAcel® II
with eFRM Filtration Technology

### Application

Suitable for all kinds of commercial indoor environment, especially for hospitals, schools, airports, financial institutions, hotels and shopping malls. As supplement of indoor fresh air, it can be connected to existing fresh air system or mixed (fresh & recirculating) air system.

### Advantages & Benefits

- The compact design of machine integrated with three-stage of high-performance filters can efficiently remove indoor fine particles, harmful gases, bacteria and viruses.
- First-stage coarse panel filter is used to effectively remove indoor large particles, dust and hair.
- Second stage is a combination filter (with carbon) – AmAir C, Which can effectively remove indoor TVOC, odours, harmful gases, such as formaldehyde.
  Or
  VariCel II, which can remove fine particles & has an efficiency minimum 50% ePM1 as per ISO 16890.
- Third-stage UV-C with an electrical discharge through a low-pressure gas enclosed in a Quartz tube for in-activating viral, bacterial and fungal organisms.
- Fourth-stage HEPA filter can remove indoor fine particles such as PM2.5, PM1, bacteria and virus.
- The machine adopts low-noise, high-torque DC fan and 10 speed setting function.
- The optimized sealing structure can effectively control noise.
- A quick ceiling-mounted structure design is suitable for pipelines and surface mounted environments.
- Easy-to-replace air duct adapters at both ends for on-site installation.

## Main Unit

| Model | Housing dimension (Connector and electrical box) ( L x W x H ) mm | Voltage/ Frequency V/Hz | Power W | Noise dB(A) | Unit Weight Kg |
|---|---|---|---|---|---|
| PA350-2P-4C/4F-UV-4H | 1050 x 414 x 310 | 220V~50/60Hz | 175 | <65 dB (A) @ 1m | 27 |

## Product Information

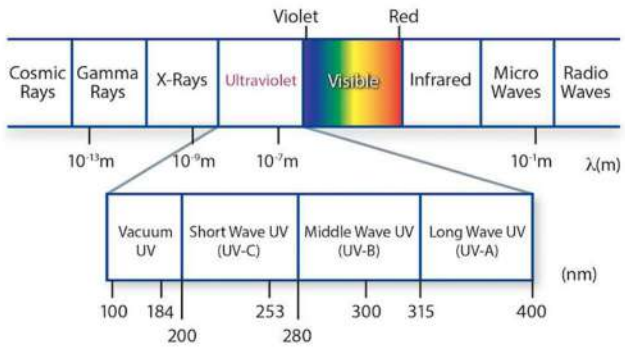
| Model | Product | Filter | Filter Dimension ( WxHxD ) mm | Quantity |
|---|---|---|---|---|
| Ceiling Mounted Recuirculation Unit | MEGApleat M8 | G4 – Pre-Filter | 287 x 287 x 44 | 1 |
| | AmAir C / | G4 +Carbon – Carbon Filter | 295 x 295 x 100 | 1 |
| | VariCel II | F7 – Fine Filter | 295 x 295 x 100 | 1 |
| | UV | Optional | | |
| | MEGAcel II (eFRM) | H14 - HEPA Filter | 295 x 295 x 117 | 1 |

## UV Light

Ultraviolet energy inactivates viral, bacterial and fungal organisms so they are unable to replicate and potentially cause disease. The entire UV spectrum is capable of inactivating microorganisms, but UV-C (wavelengths of 100 – 280 nm) provides the most germicid[a]l effect, with 265 nm being the optimum wavelength. The majority of modern UVGI lamps create UV-C with an electrical discharge through a low-pressure gas (including mercury vapor) enclosed in a quartz tube, similar to fluorescent lamps. Roughly 95% of the energy produced by these lamps is radiated at a near-optimal wavelength of **253.7 nm.**

Source: ASHRAE - https://www.ashrae.org/technical-resources/filtration-disinfection

UV Light



# MEGApleat® M8

## Product Overview

- Excellent as a pre-filter
- Low operating resistance saves energy
- Highest dust holding capacity
- Strongest construction
- Guaranteed consistent performance
- Patent-pending filter design
- Heavy-duty, galvanised expanded metal support grid

## Specification

| | |
|---|---|
| EN779 | G4 |
| ASHRAE 52.2 | MERV 8 |
| ISO 16890 | Coarse 60% |
| Filter Depth (mm) | 22,44,95 |
| Media Type | Synthetic |
| Frame Material | Moisture Resistant Beverage Board/Al |
| Special Size Available | Yes |
| Antimicrobial Available | No |
| Recomm. Final Resistance | 250 Pa |
| Max Operating Temperature | 93° C |
| Air Filtration Certificate | UL 900 |

## Product Information

### MEGApleat® M8

| Nominal Size Inches (W x H x D) | Actual Size Inches (W x H x D) | Rated Airflow (CMH) | Rated Initial Resistance (Pa) |
|---|---|---|---|
| 12 x 12 x 2 | 287 x 287 x 44 | 400 | 35 |

# AmAir® /C

## Product Overview

- Disposable filter for economical, effective, gas-phase and particulate filtration
- Economical solution to many gaseous contaminant problems including odors
- Carbon
- Odor removal and corrosion control protection
- Easy to install
- Directly interchangeable with standard air filters

## Specification

| | |
|---|---|
| EN779 | G4 |
| ASHRAE 52.2 | MERV 7 |
| Filter Depth (mm) | 44 |
| Media Type | Carbon |
| Frame Material | Moisture Resistance Beverage Board/Al |
| Special Size Available | Yes |
| Antimicrobial Available | No |
| Recommended Filter Resistance | 250 Pa |
| Max Operating Temperature | 49°C |
| Air Filtration Certificate | UL 900 |

## Product Information
## AmAir®/C

| Nominal Size Inches (W x H x D) | Actual Size mm (W x H x D) | Rated Airflow (CMH) | Rated Initial Resistance (Pa) |
|---|---|---|---|
| 12 x 12 x 4 | 295 x 295 x 100 | 350 | 70 |

# VariCel® II


## Product Overview

- True high-efficiency filter - only 95 mm thick media pack
- Slim-line, mini-pleat design reduces operating costs
- Engineered for a variety of applications
- Easy disposal
- Available with antimicrobial

## Specification

| | |
|---|---|
| EN779 | M6 - F9 |
| ASHRAE 52.5 | MERV 11 -15 |
| ISO 16890 | ePM10 65%, ePM1 50%, 70%, 80% |
| Filter Depth (mm) | 95 |
| Media Type | Fibreglass |
| Frame Material | Moisture Resistant Beverage Board/Al |
| Separator Style | Hot Melt |
| Special Size Available | Yes |
| Antimicrobial Available | Optional |
| Header Type | None Header |
| Recommended Final Resistance | 450 Pa |
| Max Operating Temperature | 66°C |
| Air Filtration Certificate | UL 900 |

## Product Information

### MEGApleat® M8

| Nominal Size Inches (W x H x D) | Actual Size Inches (W x H x D) | Rated Airflow (CMH) | Rated Initial Resistance (Pa) |
|---|---|---|---|
| 12 x 12 x 2 | 295 x295 x 100 | 350 | 80 |

# MEGAcel® II eFRM

## Product Overview

- Pharmaceutical grade eFRM Filtration Technology media is proven to be more durable than microglass, delivering superior performance than micro fibreglass
- Industry's first and only eFRM media to be Polyalphaolefin (PAO) compatible, with a higher PAO holding capacity compared to microglass media
- Superior durability and tensile strength, 84 times the pleated strength of microglass
- Chemical-resistant capabilities reduce media degradation in highly corrosive environments
- Exceptional water resistance compared to ultrafine microglass

## Specification

| | |
|---|---|
| EN1822 | H14 |
| Filter Depth (mm) | 50 |
| Media Type | eFRM |
| Frame Material | Aluminium |
| Separator Style | Hot Melt |
| Gasket Material (Standard) | PU |
| Gasket Material (Optional) | Neoprene, EPDM |
| Gasket Position (Standard) | Downstream |
| Gasket Position (Optional) | Upstream, Both Sides |
| Faceguard | Both Sides |
| Special Size Available | Yes |
| Antimicrobial Available | No |
| Recommended Final Resistance | 500 Pa |
| Max Operating Temperature | 70°C |
| Air Filtration Certification | UL 900 |

MEGAcel® II
with eFRM Filtration Technology



## Product Information

### MEGAcel® II eFRM

| Nominal Size Inches (W x H x D) | Actual Size Inches (W x H x D) | Rated Airflow (CMH) | Rated Initial Resistance (Pa) |
|---|---|---|---|
| 12 x 12 x 4 | 295 x 295 x 117 | 350 | 140 |

## Proven Expertise of AAF

AAF offers the most comprehensive air filtration portfolio in the industry, including particulate and gas-phase filters, to provide a customized clean air solution. Each product is carefully designed, manufactured, and tested in full compliance with all applicable standards to meet the most challenging demands with the lowest Total Cost of Ownership.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