

AstroPure

HEPA HF SYSTEMATICS TEAM

HEPA Team Sync-AAF Clean Unit
Recirculation Care-Solutions



VariCel® I



AstroCel® VXL



MegaPleat® M8



AmAir®/C / AmAir®300E



HF Systems

For Creation of "Isolation Zones" to Reduce the Risk of Airborne Infection

AAF International is a leading supplier of negative pressure HEPA filtration equipment, with more than 25,000 air filtration systems in use today.

Our HEPA Filtration Systems are designed to create airborne infection isolation rooms in the healthcare setting. These systems can be used to meet certain engineering provisions from the 2003 CDC Guidelines for Healthcare Infection Control.

AAF HEPA Filtration Systems can be used for negative pressure environments or recirculation/dilution. All models are classified as Class II medical devices.

Our user-friendly systems are designed to provide the highest level of protection at an economical price. Each system features quiet, energy-saving motorized impellers, specially designed 99.99% gel seal HEPA filter, prefilter, aircraft-type cabinet construction, locking control and filter compartment, and attractive design. The HEPA and pre filter are UL listed and the fan is CE certified. Prefilters for the removal of smoke and odors are also available.

AP Portable HF-Systems

The AstroPure is the most versatile AAF model, with numerous infection control applications for the healthcare facility. It can be used as a portable system for movement from room to room on its stable, easy-to-move caster cart. If necessary, it can be removed from its cart for operation as a fixed

The AstroPure can be utilized in any of three operating modes:

- 100% exhaust*
- Need based variable exhaust based on the application
- 100% recirculation

Option 1 and 2 can be supplied with an optional flexible ducting.

Dual (top and back) exhaust outlets further add to the versatility of the AstroPure.

The AstroPure is designed specifically to enable a healthcare facility to quickly and inexpensively convert a standard patient room to a negative pressure isolation room. It can also be rolled into an ER, OR, ICU, or radiology suite when an airborne infection isolation room is required. It can be used as a recirculating device in outpatient clinics, waiting areas, and other common use areas where the status of patients and visitors is unknown.

This powerful system delivers up to 500-2000 CFM operating airflow at the "HIGH" speed setting. As a result, the AstroPure can typically provide above 12 air changes per hour in rooms up to 2,500 cubic feet. Variable speed controls enable the AstroPure to be run at lower speeds where less airflow is required. With fan regulation, the delivered volume can go upto 2000 CFM.





AP500



*Flexible ducting possibility
for 100% exhaust*



AstroCel® II

UV Light



AmAir®/C / AmAir®300E



MegaPleat® M8



AP500-II



*Flexible ducting possibility
for 100% exhaust*



AstroCel® II

UV Light



AmAir®300E



AP500-III



*Flexible ducting possibility
for 100% exhaust*



AstroCel® II



AmAir®300E



AP 2000



*Flexible ducting possibility
for 100% exhaust*

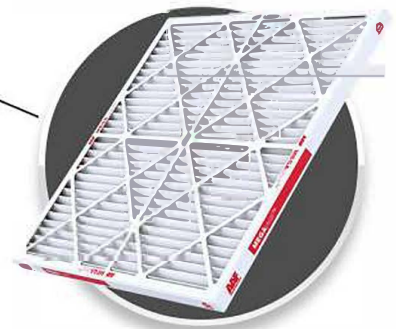


VariCel® I

UV Light



AstroCel® VXL



MegaPleat® M8



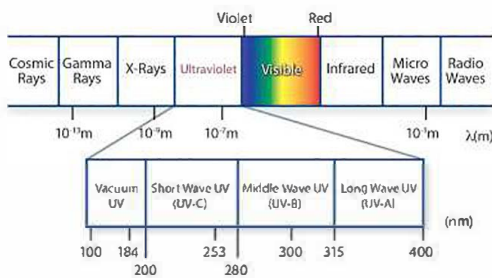
Technical Specifications

Name of Purification System	AstroPure 500	AstroPure 500 II	AstroPure 500 III	AstroPure 2000
Type	Portable / stand alone floor standing unit	Portable / stand alone floor standing unit	Stand alone floor standing unit	Portable / stand alone floor standing unit
Overall Dimension	800 X 714 X 1298.5mm	800 X 714 X 1100mm	800 X 714 X 1000mm	1298.5 X 800 X 714
Air Flow Capacity	500 CFM	500 CFM	500 CFM	2000 CFM
Electricity and Power Consumption	230V /1-Phase /60Hz to 50Hz /Class B (0.37KW)	230V /1-Phase /60Hz to 50Hz /Class B (0.37KW)	230V /1-Phase /60Hz to 50Hz /Class B (0.37KW)	230V /1-Phase /50/60Hz /Class B (0.37KW)
Motor	EC Centrifugal Fan	EC Centrifugal Fan	EC Centrifugal Fan	EC Centrifugal Fan
Construction	PU Insulated casing with castor	PU Insulated casing with castor	PU Insulated casing with castor	PU Insulated casing with castor
Overall Weight	Estimated shipment weight is 54 kg	Estimated shipment weight is 54 kg	Estimated shipment weight is 54 kg	Estimated shipment weight is 54 kgs
Pre Filter	MEGAPleat® M8	AmAir® 300E	AmAir® 300E	MEGAPleat® M8
Carbon Filter	AmAir®VC / AmAir®300E	NA	NA	Germicidal lamp 200-280 nm
System Efficiency	AstroCel®II H14 99.995% at MPPS EN1822	AstroCel®II H14 99.995% at MPPS EN1822	AstroCel®II H14 99.995% at MPPS EN1822	H14 99.995% at MPPS as per EN1822
Sound Level	< 53.7 dB	< 53.7 dB	< 53.7 dB	< 53.7 dB
UV light	Germicidal lamp 200-280 nm	Germicidal lamp 200-280 nm	NA	
Warranty Against Manufacturing Defects	1 Year	1 Year	1 Year	1 Year
Speed Control	Variable	Variable	NA	

UV-L

Broad-spectrum germicidal UV light which has wavelengths between 200 and 400 nanometers (nm), is highly effective at killing bacteria and viruses by destroying the molecular bonds that hold their DNA together.

UVC light also emits very short ultraviolet UV vacuum with wavelengths which creates ozone. It comes with a protective glass to block harmful UV wave lengths.





THE MOST LEAK-PROOF IN CLASS - GUARANTEED

MEGApleat® M8

EXTENDED SURFACE PLEATED PANEL FILTERS

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
Special Size Available	Yes
Antimicrobial Available	No
Recomm. Final Resistance	250 Pa
Max Operating Temperature	93°C
Air Filtration Certificate	UL 900

Pre-Filter Information

Nominal Size Inches (W x H x D)	Actual Size mm (W x H x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
24 x 24 x 2	594 x 594 x 44	3,400	67



THE WORLD LEADER IN CLEAN AIR SOLUTIONS

AA300E

Product Overview

- Excellent as a pre-filter
- Disposable pleated filter
- Wide selection range
- High loft media increases dust holding capacity
- Expanded metal support grid increases the stability of the pleat pack

Specification

EN779	G4
ASHRAE 52.2	MERV 7
ISO 16890	Coarse 70%
Filter Depth (mm)	22, 44, 95
Media Type	Non-Woven Cotton Synthetic Blend
Frame Material	Moisture Resistant Beverage Board
Special Size Available	Yes
Antimicrobial Available	Optional
Recomm. Final Resistance	250 Pa
Max Operating Temperature	93°C
Air Filtration Certificate	UL 900



Product Information

Media	Nominal Size Inches (W x H x D)	Actual Size mm (W x H x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
44 mm				
300E	24 x 24 x 2	594 x 594 x 44	850	30



THE WORLD LEADER IN CLEAN AIR SOLUTIONS

AA-2/C

GAS-PHASE FILTERS

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
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)	Airflow (CMH)	Rated Initial Resistance (Pa)
44 mm			
24 x 24 x 2	594 x 594 x 44	3400	90



AsC[®]-II (GS)

Product Overview

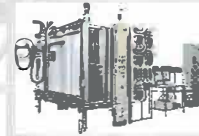
- Individually tested for certified performance
- Reduces operation costs with lowest possible pressure drop from microglass media
- Available in a range of efficiencies
- Lightweight and compact

Specification

EN 1822	H14
Filter Depth (mm)	Various
Media Type	Fibreglass
Frame Material	Aluminium
Separator Style	Hot Melt
Gasket Material	EPDM
Gasket Position	Upstream, Both Sides
Faceguard	Both Sides
Recommended Final Resistance	500 Pa
Max Operating Temperature	70°C
Air Filtration Certificate	UL 900
Efficiency	99.995% at MPPS



- All HEPA Filters are Auto Scan Tested as per EN1822
- All HEPA Filters are made in cleanroom (Class 100,000)



Product Information

Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
592 X 592 X 117	850	140



THE WORLD LEADER IN CLEAN AIR SOLUTIONS

VCI®-1

HEPA AND ULPA FILTERS

Product Overview

- Excellent performance in difficult operating conditions
- Dual density media delivers longer life and the lowest initial resistance
- Designed to improve Indoor Air Quality
- Water-resistant media ideal for installations in humid areas, or where exposed to moisture
- MERV 13 meet LEED® Project Certification efficiency requirements



Specification

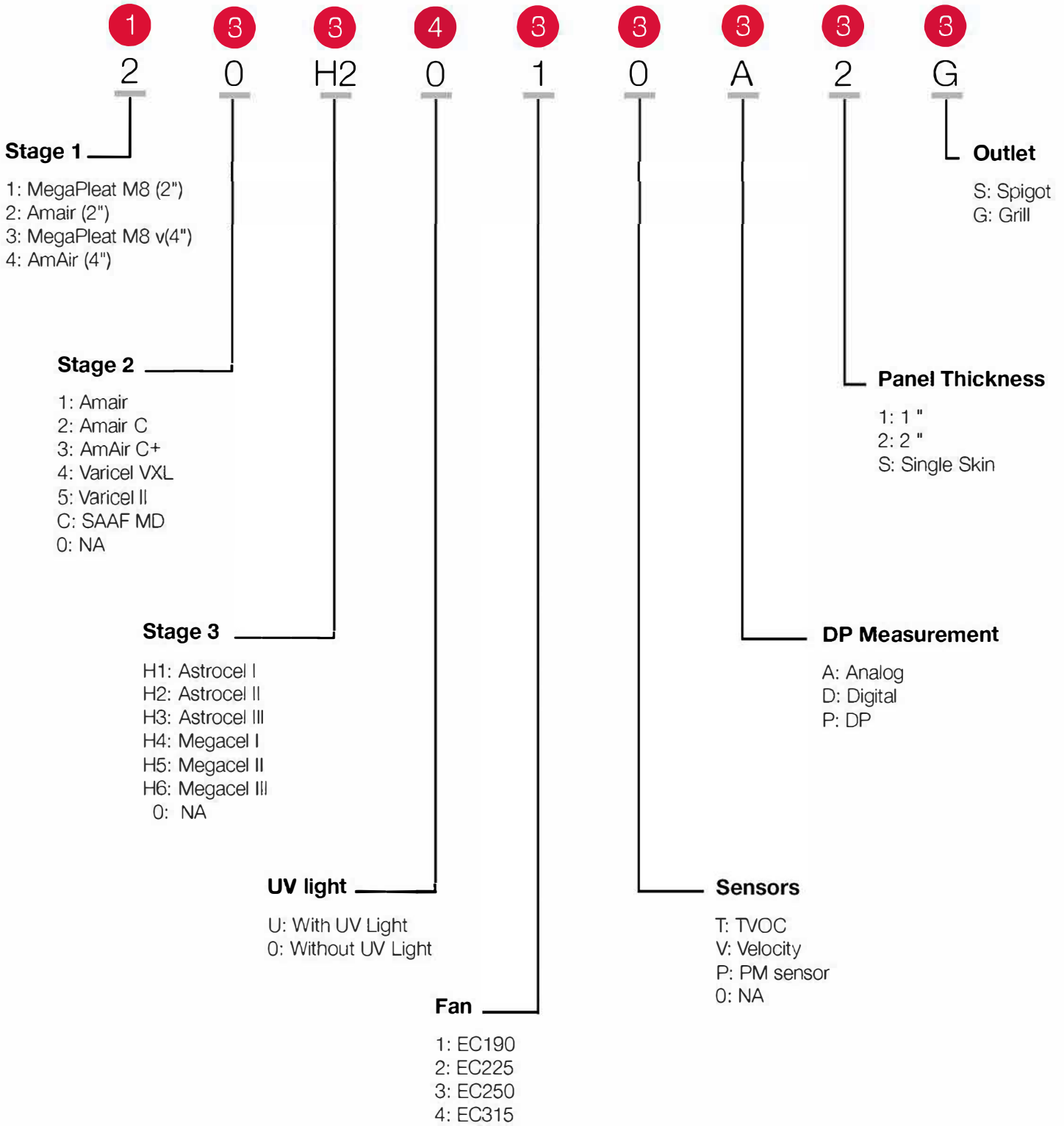
EN779	M6 - F9
ASHRAE 52.2	MERV 11 - 15
ISO 16890	ePM10 65%, ePM1 50%, 70%, 80%
Filter Depth (mm)	149, 292
Media Type	Fibreglass
Frame Material (Standard)	Galvanised Steel
Frame Material (Optional)	Particle Board, MDF, Plywood
Separator Style	Aluminium
Special Size Available	Yes
Antimicrobial Available	Optional
Header Type	Single, Double, None Header
Recommended Final Resistance	450 Pa
Max Operating Temperature	120°C (SH & DH), 93°C (NH)
Air Filtration Certificate	UL 900

Product Information

Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
594 x 594 x 292	3400	80



AP Range Detail-1.01A





Proven Expertise of AAF

AAF offers the most comprehensive SAFE-Air portfolio in the industry, including particulate and gas-phase filters, to provide a customized clean air solution. Each solution-set is carefully designed, manufactured, and tested in full compliance with all applicable standards to meet the most challenging demands.

Email us at:
support.aaf@sync-global.com

Call us at
011-450 33 577

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