

Microclass Fan
Filter Unit (FFU)
HEPA & ULPA
Modules

MANN+HUMMEL
MICROCLASS
FAN FILTER UNIT

Microclass Fan Filter Unit HEPA & ULPA Module

FEATURES

- Low energy consumption
- For the control of contamination
- Factory assembled and wired integral fan/motor assembly
- Heavy duty construction
- Quiet noise levels averaging 53dBA
- Constructed materials have low chemical off gasing

APPLICATIONS

The Microclass FFU is designed for critical applications and used in environments that contain hazardous materials such as:

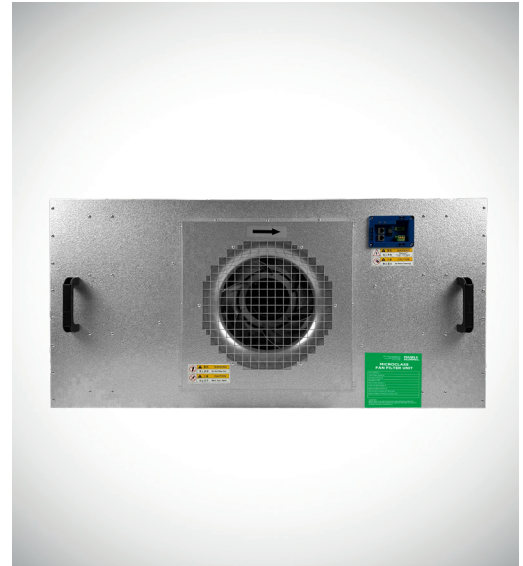
- Pharmaceutical
- Food processing industry
- Genetic research
- Hospital Operating and Medicine Compounding Areas
- Microelectronics
- Research laboratories
- Government facilities

DESIGNED FOR CRITICAL APPLICATIONS

The Microclass Fan Filter Unit series is designed for use in Cleanroom applications that require a powered HEPA and/or ULPA filter in a compact footprint. Applications include healthcare, pharmaceutical, microelectronics, medical device manufacturing and other cleanroom disciplines.

The Microclass FFU is engineered to offer energy efficient and quiet operation with solid construction. The Microclass FFU has low energy consumption with energy efficiency over 54%. In addition to low energy usage the Microclass FFU has quiet operation with noise levels averaging 53dBA (depending on model and fan speed – see chart next page). The Microclass FFU is constructed using high quality materials such as galvalume or aluminum and the construction is fully sealed. The unit is also constructed of materials with low chemical off gassing so it is safe to use in the most sensitive applications.

The Microclass FFU utilizes a Microclass Panel HEPA/ULPA filter, these filters are constructed with a media pack of glass microfiber or ePTFE media pleated on the state of the art pleating equipment and sealed into an extruded aluminum frame with polyurethane. The filter is then tested to ensure the highest level of performance. These filters are available from 99.95% at 0.3 μ m to 99.999995 at 0.12 μ m (H13 to U17). The Microclass FFU is the solution for your powered HEPA/ULPA filtration as it is convenient to use and the control software is user friendly to operate.



Microclass Fan Filter Unit Technical Data

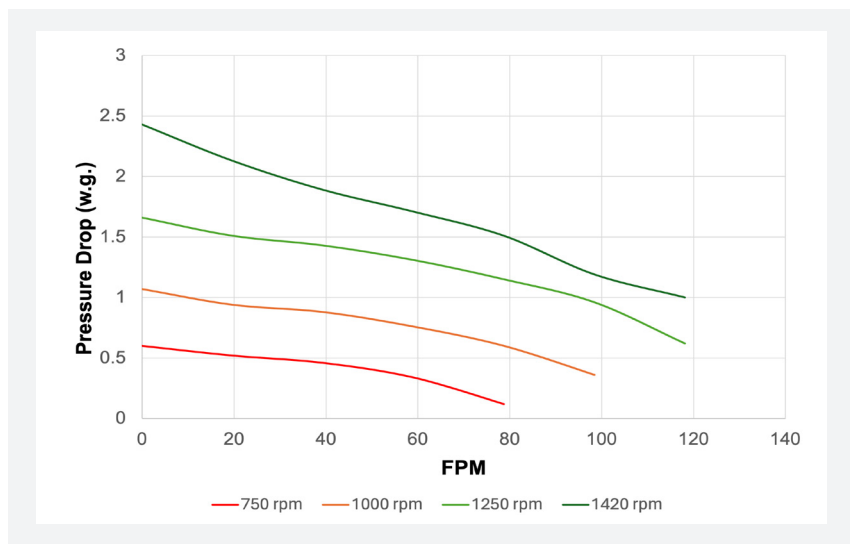
SIZE PARAMETER CHART - AC FFU

MODEL	NOMINAL SIZE Feet		AIR FLOW CFM	TSP in. w.g.	ENCLOSURE SIZE (inches) HxWxD	POWER WATTS	SOUND dBA
	L	W					
310AP	2	2	280	0.92	22.64 X 22.62 X 9.45	90	52
310AP	2	3	435	0.86	22.64 X 34.45 X 9.45	120	53
310AP	2	4	585	0.74	22.64 X 46.26 X 9.45	150	54
355AK	2	4	585	1.21	22.64 X 46.26 X 9.84	170	54
355AK	2.5	5	950	0.88	28.54 x 58.07 x 10.04	245	56
355AL	2.5	5	950	1.13	28.54 x 58.07 x 10.83	240	56
355AL	3	4	915	0.90	34.45 X 46.26 X 9.84	250	56
355AL	3	4	915	1.15	34.45 X 46.26 X 10.83	245	56
355AL	4	4	1240	0.88	46.25 x 46.25 x 10.83	275	57

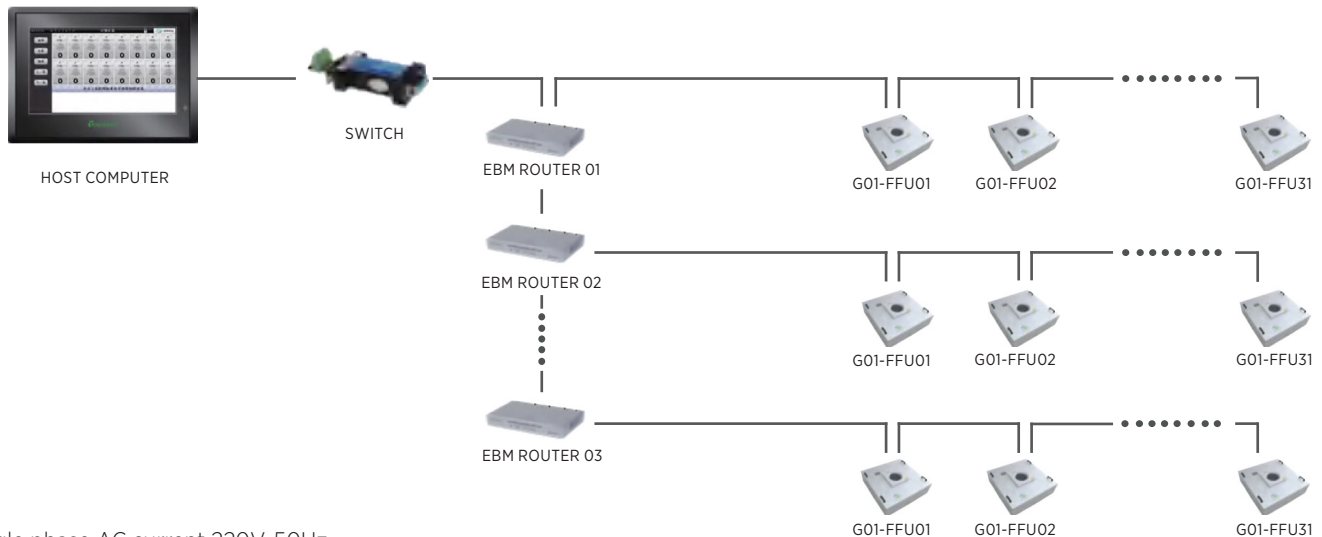
SIZE PARAMETER CHART - EC AC FFU

MODEL	NOMINAL SIZE Feet		AIR FLOW CFM	TSP in. w.g.	ENCLOSURE SIZE (inches) HxWxD	POWER WATTS	SOUND dBA
	L	W					
355AM	2	2	280	2.45	22.64 X 22.62 X 10.83	65	49
355AM	2	3	435	2.37	22.64 X 34.45 X 10.83	90	50
355AM	2	4	585	2.29	22.64 X 46.26 X 10.83	135	52
400AC3061	2	4	585	1.81	22.64 X 46.26 X 11.81	110	52
400AC3061	3	4	915	1.55	34.45 X 46.26 X 11.81	150	53
400AC3061	4	4	1240	1.13	46.25 x 46.25 x 11.81	190	54
400RP4561	2	4	585	1.03	22.64 X 46.26 X 11.81	100	50
400RP4561	3	4	915	1.39	34.45 X 46.26 X 10.83	140	51
400RP4561	4	4	1240	1.21	46.25 x 46.25 x 10.83	180	52

PERFORMANCE DATA



Microclass Fan Filter Unit Typical Network



- Single phase AC current 220V, 50Hz
- Connection cable: Category 5 shielded network cable
- Connector RJ-45 shielded crystal head
- Each group can connect up to 31 FFU at most
- Max: 8 groups can be connected, 248 units

CONNECTION INSTRUCTIONS

- Connect 1 to 31 FFU per group
- Each system can monitor up to 8 groups and allocate a maximum of 248 wind turbine addresses

FEATURES

- Using a 7 or 10in screen
- Portable operation, mobile control device operation
- Saving installation space, easy debugging and control

MANN+HUMMEL is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice. MANN+HUMMEL products are manufactured to exacting criteria – there can be a $\pm 5\%$ variance in filter performance.

LOCAL REPRESENTATIVE