PRODUCT DATA SHEET

■ MAC 10® RFAC Fan Filter Introduction

Negative Pressure, Reverse Fan Filter Unit

The MAC 10® RFAC fan filter unit (FFU) is designed to pull contaminated air from the intake side of the filter, filter the air, and then exhaust it outside of the area. This allows the unit to provide negative pressure by working in reverse of a typical fan filter unit. The exhaust direction can be changed to one of four directions and exhausts through a 5" x 14" outlet which can be ducted.

High Performance and Innovation

The MAC 10® RFAC FFU uses a combination of backward-inclined motorized impeller, solid-state speed control, and, ENVIRCO's unique baffling system to make it energy-efficient, provide high performance and long motor life. The MAC 10® RFAC is versatile and can be used in typical ceiling grid installations, installed inside equipment, wall-mounted, or designed into a powered portable negative pressure air cleaner.

Typical Applications

The MAC 10® RFAC are primarily used in critical environments requiring negative pressure clean air solutions. These include modular cleanrooms, cleanroom garmenting rooms, healthcare contamination control, cleanroom workstations, workbench enclosures, and associated air hoods.

Multiple Housing Styles

The MAC 10® RFAC comes in two different style configurations to fit the needs of the clean space.
STD - Standard Filter: filter replaced from above ceiling
RSR - Roomside Removable Filter: filter replaced from below ceiling
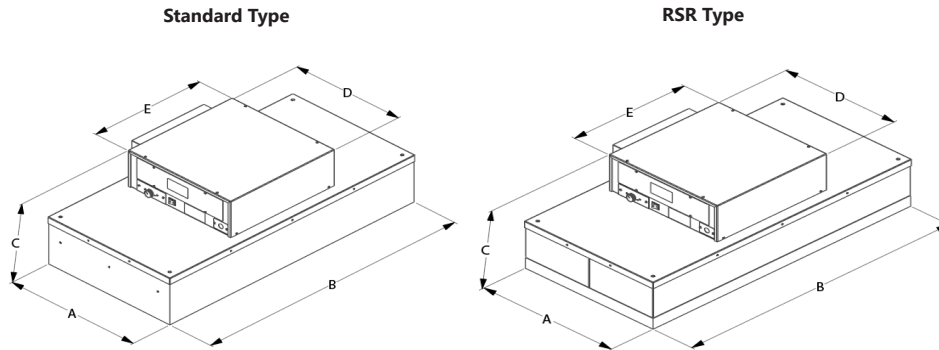
■ Standard Features

• Solid-state Speed Control
• Integrated Motorized Backward-inclined impeller
• HEPA filter: 99.99% efficient @ 0.3 micron, 53mm pleat depth
• Mill finished aluminum exterior
• Walkable plenum (excluding air output box), rated to 250 lbs.
• 5" x 14" output which can exhaust in one of four different directions
• MERV 8 pre-filters (RSR housing only)
• Latching easy open/close perforated screen for pre-filter and HEPA filter access (RSR housing only)
• Available in 2x2 and 2x4 sizes
• UL listed (115V, 277V) with standard UL 900 filter, file number E152685 (UL507)
• Manufactured to IEST recommended practices

■ Optional Features

• Powder coat white paint option
• Filter Efficiencies: HEPA 99.995% or ULPA 99.9995% at MPPS
• Other filter options: PTFE, Energuard, 70mm
• 3/4" knife edge: permits easy placement in gel track ceiling grid system (available on RSR units only)
• Continuous filter pressure monitoring option
• Remote Speed Control option
• Network Control Card option
  - MODBUS RTU
  - Analog speed control
• Surface mount adapters available (shipped loose)
• 1" Insulation option

PRODUCT DATA SHEET

■ MAC 10® RFAC Dimensions & Performance

Standard Type

RSR Type

Nominal Unit Size	Active Filter Face Area (Sq. Ft.)	Min. CFM	Max. CFM	Watts @ Max. CFM	dBA @ Max CFM	CFM @ 90 FPM	Watts @ 90 FPM	Sound dBA @ 90 FPM	Unit Weight	Dimensions AxBxCxDxE (mm)
2x4 RFAC Standard	7.2	250	760	209	71	650	212	68	62	23.63" x 47.63" x 16.14" x 20" x 20" (600 x 1210 x 318 x 508 x 508)
2x2 RFAC Standard	3.5	165	620	205	69	315	187	60	44	23.63" x 23.63" x 16.14" x 20" x 20" (600 x 600 x 318 x 508 x 508)
2x4 RFAC RSR	5.3	135	720	193	67	470	188	60	70	23.63" x 47.63" x 16.14" x 20" x 20" (600 x 1210 x 371 x 508 x 508)
2x2 RFAC RSR	2.3	135	495	199	67	210	160	56	49	23.63" x 23.63" x 16.14" x 20" x 20" (600 x 600 x 371 x 508 x 508)

* Do no operate 2x2 units above 400 SCFM. Damage to the filter and/or particle bleed-through can occur.

Notes:
Performance tested in accordance with the (ANSI/AMCA 210-07), (ANSI/ASHRAE 51-07) test standards for Certified Aerodynamic Performance Rating.
Max CFM rating based on free air volumes @ high speed motor setting. 90 fpm values based on active filter face area. BTU = Watts x 3.413

MAC 10® RFAC Electrical Info:
MAC 10® RFAC 115V 60HZ 1 Phase = 1.8 F.L.A., 277V 60 HZ 1 Phase = 0.80 F.L.A.