

TECHNICAL SPECIFICATION

USP 797 Introduction

A Second Generation FFU

While Envirco[®] has introduced a variety of proprietary products, one of its most successful continues to be the MAC 10[®] family of fan filter units (FFUs). We add to this industry's leading line of products a second generation FFU, the MAC 10[®] LE-DC, which features the most control options and the most versatile control system available on the market today.

A Green Product Solution

The MAC 10[®] LE-DC FFU helps provide opportunities to earn LEED* with its energy-saving features. *Note: LEED (Leadership in Energy and Environmental Design) is the rating system of US Green Building Council which building designs are certified.*



By taking advantage of a unique combination of EC motor technology coupled with Envirco's proprietary baffling system and backward inclined fan, the LE-DC leads the industry in energy-efficiency. Its electronically commutated (EC) motor with internal microprocessor offers high performance and delivers long motor life with energy consumption rates as low as 90W @ 90 fpm.

Utilizing Envirco's experience in FFU development, the LE-DC also features low sound levels of 52 dBA, which are a MAC 10[®] family benchmark.

Envirco[®] MAC 10[®] FFUs are used worldwide for a variety of critical clean air applications. Learn more about how you can benefit from the LE-DC in your next critical room application. Contact your local Envirco[®] representative or visit us on the web at www.envirco.com.

Standard Features

- » New Universal Control Card
 - Network Speed Control, MODBUS RTU
 - Manual Speed Control, On-Board Potentiometer
 - Analog Speed Control, Remote 0-10V
- » Electronically Commutated (EC) brushless motor with internal microprocessor
- » High Efficiency Particulate Air (HEPA) Filter: 99.99% efficient
 @ 0.3 micron
- » 1.0 in. wg (200 Pa) of external static capability
- » Backward-inclined centrifugal fan
- » Walkable plenum (excluding prefilter), rated to 250 lbs.
- » Washable pre-filter
- » Manufactured to IEST recommended practices
- » Available in 2 x 2, 2 x 3, 2 x 4 and 4 x 4 sizes
- » cUL listed (115V, 208-240V, 277V) with standard UL 900 filter, File number E152685 (UL507)
- » Mill finished aluminum exterior

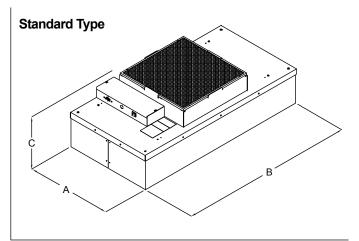
Optional Features

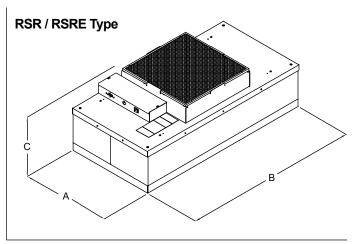
- » Room-side Replaceable Filter (RSR)
- » Room-side Replaceable Filter and Motor Assembly (RSRE)
- » Infrared Speed Control: Room-side airflow adjustment with a hand-held remote control
- » Ducted Inlet Connection (shipped loose)
 - 10" (254 mm)
 - 12" (305 mm)
 - 14" (356 mm)
- » Direct connection to air conditioning supply
- » Flow-through light fixture provides illumination with minimal airflow disruption
- » Powder coat white paint or stainless steel housing
- » Room-side 3/8" Challenge Ports: Convenient aerosol challenge and HEPA filter testing. Standard on RSE and RSRE units
- » CE certified on 230V units
- » ULPA 99.9995% at 0.12 micron PTFE and low boron.
- » 3/4" Knife Edge: Permits easy placement in gel track ceiling grid system (available on RSR and RSRE units only)
- » Pleated MERV 8 pre-filter available



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Dimensions





Performance MAC 10[®] LE-DC

| Nominal Unit Size | Active Filter Face Area (Sq. Ft.) | Max. CFM | Watts @ Max. CFM | | | Sound dBA @ 90 FPM | Unit Weight | Dimensions AxBxC (in) |
|----------------------|---|-------------|---------------------|-----|----|-----------------------|----------------|---|
| 2x4 LE-DC | 7.2 | 950 | 250 | 650 | 90 | 52 | 66 | 23.63 x 47.63 x 14.32 (600 x 1210 x 364) |
| 2x3 LE-DC | 5.3 | 650 | 150 | 470 | 65 | 47 | 52 | 23.63 x 35.63 x 14.32 (600 x 905 x 364) |
| 2x2 LE-DC* | 3.5 | 410 | 145 | 315 | 85 | 46 | 41 | 23.63 x 23.63 x 14.32 (600 x 600 x 364) |
| 2x4 LE-DC RSR/RSRE | 5.3 | 850 | 240 | 477 | 65 | 47 | 71 | 23.63 x 47.63 x 16.43 (600 x 1210 x 417) |
| 2x3 LE-DC RSR/RSRE | 3.8 | 650 | 150 | 340 | 45 | 43 | 54 | 23.63 x 35.63 x 16.43 (600 x 905 x 417) |
| 2x2* LE-DC RSR/RSRE | 2.3 | 350 | 130 | 210 | 50 | 46 | 44 | 23.63 x 23.63 x 16.43 (600 x 600 x 364) |

* All 2 x 2 units will be built with a forward curve fan utilizing the same technology as the MAC10[®] IQ sold today. Weights above are for aluminum units. For RSRE units, add 5 lbs. For stainless steel units, add 10 lbs.

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® LE-DC:

MAC 10[®] LE-DC 115V, 50/60HZ 1 Phase = 2.75 F.L.A., 208-240V 50/60HZ 1 Phase = 1.75 F.L.A., 277V 60 HZ 1 Phase = 1.35 F.L.A. MAC 10[®] LE-DC 2x2 115V-5.0 F.L.A. 2x2 208-240V 33.0 F.L.A. 277V 2.5 F.L.A

Modular Cleanrooms Denver, Colorado 800-496-7666 (Toll Free) 303-371-0272 (Office) 303-371-0270 (Fax) Sales@modularcleanrooms.com www.modularcleanrooms.com

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