

# TECHNICAL SPECIFICATION

## MAC 10<sup>®</sup> LE-DC Introduction

#### **A Second Generation FFU**

While Envirco<sup>®</sup> has introduced a variety of proprietary products, one of its most successful continues to be the MAC 10<sup>®</sup> family of fan filter units (FFUs). We add to this industry's leading line of products a second generation FFU, the MAC 10<sup>®</sup> 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<sup>®</sup> LE-DC FFU can help provide opportunities to earn LEED\* points with its many energy-saving features. *Note: LEED* (*Leadership in Energy and Environmental Design*) is the rating system of US Green Building Council by which building designs are certified.



By taking advantage of a unique combination of EC motor technology with Envirco's proprietary baffling system and backward inclined fan, the LE-DC tops 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 52.3 dBA, which are a MAC 10<sup>®</sup> family benchmark.

Envirco<sup>®</sup> MAC 10<sup>®</sup> 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<sup>®</sup> representative or visit us on the web at www.envirco. com.

## Standard Features

- » New Universal Control Card
  - Network Speed Control, MOBUS 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

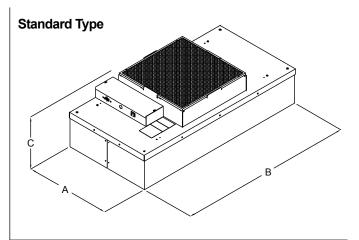
## Optional Features

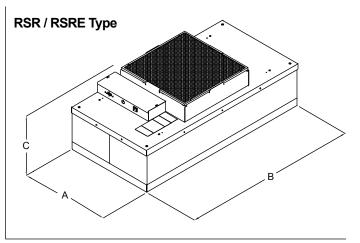
- » Room-side Replaceable Filter (RSR)
- » Room-side Replaceable Filter and Motor Assembly (RSRE)
- » Infrared Speed Control: Room-side airflow adjustment with a hand-held remote control
- » Ducted Inlet Connection (shipped loose)
  - 10" (254 mm)
  - 12" (305 mm)
  - 14" (356 mm)
- » Direct connection 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)
- » MERV 8 pre-filter available



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# Dimensions





# Performance MAC 10<sup>®</sup> 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<sup>®</sup> IQ sold today.

#### 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<sup>®</sup> 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.

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