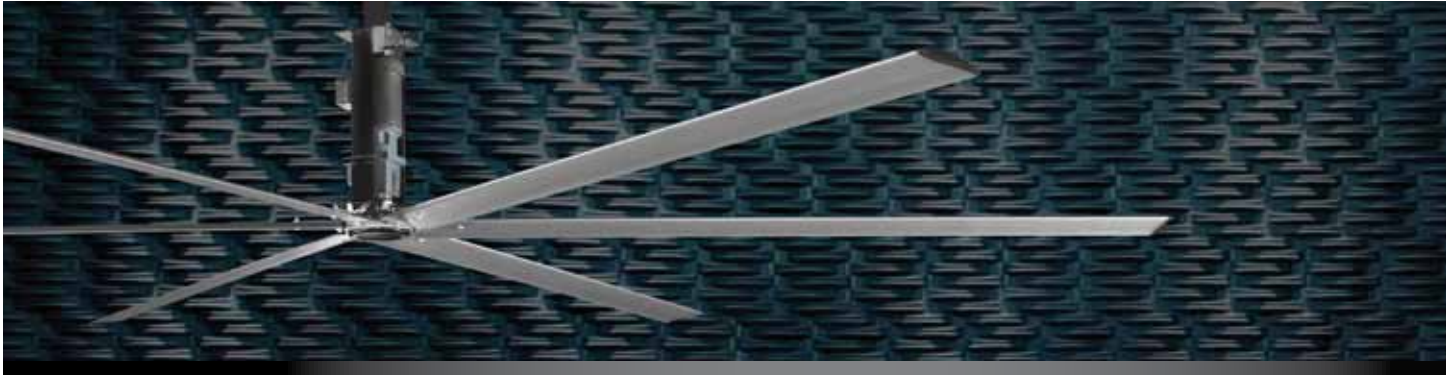


# AIRVOLUTION/12

12 ft.1HP Fan  
Model No. MA12XL1006



## GENERAL

|  |  |
|--|--|
| Model Number   | MA12XL1006   |
| Diameter   | 12 FT / 3.66 Meters  |
| Blade Style  | XL   |
| Number of Blades   | 6  |
| Nominal Horsepower   | 1.0 HP / 0.75 kW   |
| Hanging Weight (average)                                     | 190 lbs / 86.2 Kg  |
| Shipping Weight (Including MCP, Mounting Hardware) (average) | 335 lbs / 152.0 Kg   |
| Power Unit Pallet Dimensions / Weight                        | 26" X 30" X 33.5" / 246 lbs / 0.66 X 0.76X 0.85 Meters / 111.58 Kg |
| Blade Pallet Dimensions/Weight                               | 72" X 25" X 15" / 111 lbs 1.8 X .63 X .38 Meters / 50.5 Kg         |

## PERFORMANCE (AT MAX SPEED)

|                                  |                                    |
|----------------------------------|------------------------------------|
| Thrust                           | 27.3 lbf                           |
| Displacement (fwd, blowing down) | 97,695 CFM / 2766.4 CMS            |
| Displacement (rev, blowing up)   | 68,387 CFM / 1936.5 CMS            |
| Maximum Speed                    | 121 RPM                            |
| Power Usage @ Max. Speed         | .605 kW                            |
| Efficiency @ 100% Max. Speed     | 215.31 CFM/Watt / 6.09 CMS/Watt    |
| Maximum Effective Area           | 7,000 SQ FT / 650.3 m <sup>2</sup> |
| Typical Industrial Spacing       | 65 FT / 19.81 Meters               |
| Maximum dB                       | 58*                                |

## MOUNTING HARDWARE

|  |  |
|--|--|
| Standard Mount                             | Universal I-Beam Clamp w/ Swivel Joint and a 7.5" Drop |
| Glulam Mount (Optional)                    | Brackets w/ Swivel Joint & 7.5" Drop                   |
| Extra Wide / Thick I-Beam Mount (Optional) | Upon Request   |
| Additional Drop Extensions (Optional)      | Up to 10 FT in 1 FT Increments                         |

## MOTOR

|                               |                  |
|-------------------------------|------------------|
| Power                         | 1.0 HP / 0.75 kW |
| Ambient Operating Temperature | 40C°             |
| Insulation Class              | F                |
| Service Factor                | 1.15             |

## GEARBOX

|                  |                 |
|------------------|-----------------|
| Type             | 2-Stage Helical |
| Service Interval | Lubed For Life  |

## MOTOR CONTROL PANEL (MCP)

|  |   |
|--|---|
| Standard Power and Max Amp Draw            | 120V, 208-240V 1Ø (11.6A), 208-240V 3Ø (6.7A), 460-480V 3Ø (3.5A)           |
| Enclosure                                  | NEMA 1  |
| Disconnect Switch                          | 20-25 Amp, Lockable   |
| Remote Control Wall Mounted Switch NEMA 4X | Fwd/Off/Rev w/Speed Control Knob  |
| RF Line Filter                             | Built In VFD  |
| VFD Motor Drive Cable                      | 25 Feet / 7.62 Meters   |
| Remote Cable                               | 100 Feet / 30.48 Meters   |
| Options                                    | NEMA 4/ 4x Enclosure, 50hz Operation, Line Reactor                          |
| Special Wiring (Variable Speed Model Only) | Thermostats, fire alarm interface, VESDA, networking etc. (Consult Factory) |

## SAFETY COMPONENTS

Blade Retainer Links (6), Safety Cable, Guy Wires (Ceiling mount only), Patented Inter-Locking Hub

## WARRANTY

12 YRS\* on Motor, Gearbox & Control Panel.  
Limited Lifetime on Blades, Hub & Mounting System.

\*dB Values Were Obtained by Testing. Specific Applications/Installation values may vary.  
\*Labor Allowance to Remove and Replace in 1st Year  
Contact MacroAir for full Warranty Details. Specifications are subject to change.



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