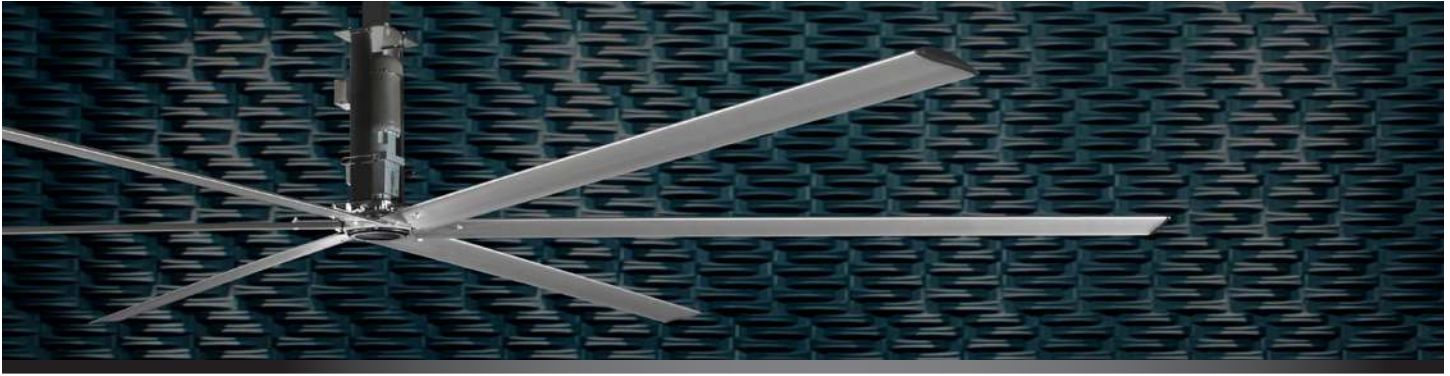


# AIRVOLUTION/18

18 ft. 1HP Fan  
Model No. MA18XL1006



## GENERAL

|  |  |
|--|--|
| Model Number   | MA18XL1006   |
| Diameter   | 18 FT / 5.49 Meters  |
| Blade Style  | XL   |
| Number of Blades   | 6  |
| Nominal Horsepower   | 1.0 HP / 0.75 kW   |
| Hanging Weight (average)                                     | 222 lbs / 100.7 Kg   |
| Shipping Weight (Including MCP, Mounting Hardware) (average) | 365 lbs / 165.6 Kg   |
| Power Unit Pallet Dimensions / Weight                        | 26" X 30" X 31" / 225 lbs / 0.66 X 0.76 X 0.79 Meters / 102.1 Kg |
| Blade Pallet Dimensions / Weight                             | 108" X 25" X 15" / 140 lbs / 2.7 X 0.63 X 0.38 Meters / 63.5 Kg  |

## PERFORMANCE (AT MAX SPEED)

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Thrust                           | 40.8 lbf                              |
| Displacement (fwd, blowing down) | 179,015 CFM / 5,066.1 CMM             |
| Displacement (rev, blowing up)   | 125,311 CFM / 3,546.3 CMM             |
| Maximum Speed                    | 71 RPM                                |
| Power Usage @ Max. Speed         | 0.65 kW                               |
| Efficiency @ 100% Max. Speed     | 275.41 CFM/Watt / 7.79 CMM/Watt       |
| Maximum Effective Area           | 14,000 SQ FT / 1,300.6 m <sup>2</sup> |
| Typical Industrial Spacing       | 90 FT / 27.43 Meters                  |
| Sound Level @ Max. Speed         | 58 dB*                                |

## 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             | Sealed 2-Stage Helical w/ Pressure Relief Valve |
| 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), 600V 3Ø (1.6A) |
| 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, 50-60Hz Operation, Line Reactor                             |
| Special Wiring (Variable Speed Model Only) | Thermostats, fire alarm interface, VESDA, networking etc. (Consult Factory)       |
| Fire Disconnect                            | Yes   |
| Network Controller                         | Yes   |
| Extension Restrictions                     | No Max  |

## SAFETY COMPONENTS

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

## WARRANTY

12 Year\*\* Service Life Warranty on Motor, Gearbox & Control Panel.  
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.

