

Mobile Air Circulators Model MAC

Belt and Direct Drive



 **GREENHECK**
Building Value in Air.

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Model MAC Mobile Air Circulator

Greenheck's model MAC mancoolers are designed to keep individuals comfortable and productive by moving high volumes of directed airflow at low velocity.

- Direct and belt drive configurations
- Propeller diameters from 18 to 48 inch
- 2-speed motors
- Volume range 2,400 to 21,000 cfm
- Maximum ambient temperature of 104°F (40°C)



Typical Applications

- Manufacturing Facilities
- Loading Docks
- Warehouses
- Automotive Shops
- Agricultural Facilities
- Educational Facilities

Standard Construction Features

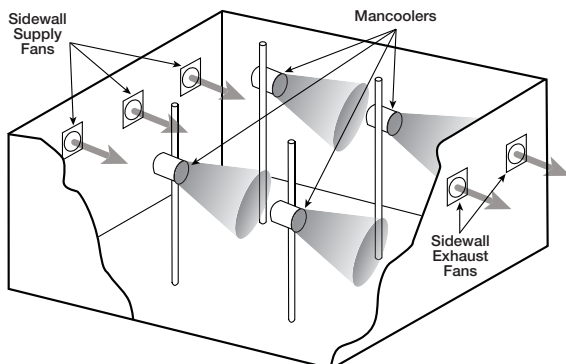
Housing	Constructed of galvanized steel providing high resistance to corrosion.
Guards	Guards are coated with a protective finish. Rings are spaced at a maximum of 1/2 inch and meet OSHA requirements.
Propeller	Aluminum propellers are statically and dynamically balanced.
Motor	Heavy-duty ball bearing motors are carefully matched to the fan load. Totally enclosed motors on 18-36 in., open drip proof on 42 and 48 inch fans with automatic reset thermal protection.
Power Cord	Factory wired, 115 volt, 9-foot, power cord and built-in cord wrap.
Toggle Switch	2-speed toggle switch allows the user to adjust airflow to desired setting.

Accessories

1.	Suspension Kit MAC-SM	Designed to mount to ceiling beams or rafters in industrial environments. Includes heavy-duty 3-point attachments and assembly hardware allowing easy tilt adjustment and multidirectional airflow.
2.	Ceiling Mount Kit MAC-CM-S MAC-CM-L MAC-CM-XL	Designed to mount to a ceiling or beam in industrial environments. Constructed of steel and includes safety cable, assembly hardware, and side and top channels with quick-turn knobs allowing for easy tilt adjustment and multidirectional airflow.
3.	Dock Arm Kit MAC-DA	Kit designed to mount around semi-trailer truck docks and loading areas. Constructed of steel with a yellow polyester powder coating. Use medium base flood lamp 300W or 150W (by others).
4.	Wall Mount Kit BKT-WPC-201	Designed to mount direct drive MAC sizes 18 to 30 inches. Includes safety support cable and hardware. Constructed of steel and coated with gray polyester powder coat finish.
5.	Mobile Tilttable Carriage Kit MAC-TC-24 MAC-TC-30 MAC-TC-36BD MAC-TC-36DD MAC-TC-42 MAC-TC-48	Kit provides a stable, portable carriage that can be easily rolled about in industrial environments. Constructed of steel and includes assembly hardware and carriage (disassembled) with quick-turn knobs allowing for easy tilt adjustment and multidirectional airflow.
6.	Mobile Kit MAC-WK-S MAC-WK-L	Kit provides easy movement of the fan in industrial environments. Constructed of steel and includes handle bracket assembly, foot bracket, foot/wheel assembly and assembly hardware.

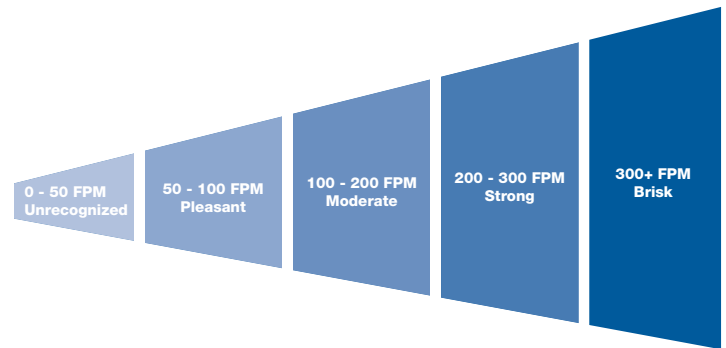
Multiple Mancooler Installation

Multiple mancoolers can be used as part of a general plant ventilation system to improve air quality and individual comfort. In the winter, they can move hot air from the ceiling to the floor and break up hot spots generated by unit heaters.



Three Step Selection Guide

1. Determine your required air velocity:



2. Identify your fan's distance from the target:

Model	Fan RPM	HP	CFM		Velocity (FPM)		
			Low	High	@ 20 ft.	@ 40 ft.	@ 60 ft.
Direct Drive							
MAC-18-339-B4-J1	750/1075	1/4	2,400	3,600	274/415	165/250	73/110
MAC-20-327-B4-J1	750/1075	1/4	3,000	4,500	323/490	198/300	99/150
MAC-24-323-B3-J1	750/1075	1/3	4,100	6,100	248/350	100/140	35/50
MAC-30-324-C5-J1	600/825	1/2	7,000	9,600	280/400	115/165	45/65
MAC-36-322-C5-J1	600/825	1/2	9,100	12,500	261/372	164/235	125/179
MAC-42-320-C7-J1	600/825	3/4	11,600	16,000	262/418	204/284	173/240
MAC-48-316-C7-J1	600/825	3/4	14,100	19,500	279/464	260/344	232/316
Belt Drive							
MAC-36-5-J1	304/460	1/2	8,400	14,000	292/417	184/263	140/200
MAC-42-7-J1	380/470	3/4	11,500	18,000	295/470	230/320	195/270
MAC-48-7-J1	260/390	3/4	14,000	21,000	300/500	280/370	250/340

3. Select your mounting accessory kit:

Size	Fan Dia.	Fan Depth	Suspension	Ceiling Mount	Dock Arm	Wall Mount	Mobile Tilttable Carriage	Mobile
Direct Drive								
18	19½	13½	✓	✓	✓	✓		
20	21½	13½	✓	✓	✓	✓		
24	25½	13½	✓	✓	✓	✓	✓	✓
30	31½	13½	✓	✓		✓	✓	✓
36	37½	13½	✓	✓			✓	✓
42	43½	21¼	✓	✓			✓	✓
48	50	21¼	✓	✓			✓	✓
Belt Drive								
36	37½	21¼	✓	✓			✓	✓
42	43½	21¼	✓	✓			✓	✓
48	50	21¼	✓	✓			✓	✓

All dimensions given in inches.

1. Suspension Kit

2. Ceiling Mount Kit

3. Dock Arm Kit

4. Wall Mount Kit

5. Mobile Tilttable Carriage Kit

6. Mobile Kit

Specifications

Belt Drive

Mobile air circulator fans shall be of the belt drive, tube axial type. The housing shall be constructed of galvanized steel providing high resistance to corrosion. Propellers shall be of galvanized steel construction. Propellers shall be statically and dynamically balanced. Ground and polished steel fan shafts shall be mounted in pillow block ball bearings. Bearings shall be selected for minimum L_{10} life in excess of 100,000 hours (L_{50} average life of 500,000 hours) at maximum cataloged operating speeds. Drives shall be sized for a minimum of 150% of drive horsepower. Pulleys shall be of the fully-machined cast iron type, keyed and securely attached to the propeller and motor shafts. Drive frame assemblies shall be galvanized steel.

Fans shall be 115V, single-phase with 2-speed toggle switches. Power cords shall be factory wired, of 9-foot length, and shall include a 3-conductor cord with a grounded and molded plug. The wire guards shall be coated with a protective finish and comply with OSHA Standard 1910.212 (1/2 in. max opening). All fans shall be UL/cUL Listed to Standard 507.

Mobile air circulator fans shall be model MAC as manufactured by Greenheck Fan Corporation of Schofield, Wisconsin.

Direct Drive

Mobile air circulator fans shall be of the direct drive, tube axial type. The housing shall be constructed of galvanized steel providing high resistance to corrosion. Propellers size 18 in. thru 24 in. shall be of aluminum construction. Propellers size 30 in. thru 48 in. shall be of galvanized steel construction. Propellers shall be statically and dynamically balanced. A standard square key type or tapered bushing shall lock the propeller to the motor shaft. Motors shall be two-speed, ball bearing type.

Fans shall be 115V, single-phase with 2-speed toggle switches. Power cords shall be factory wired, of 9-foot length, and shall include a 3-conductor cord with a grounded and molded plug. The wire guards shall be coated with a protective finish and comply with OSHA Standard 1910.212 (1/2 in. max opening). All fans shall be UL/cUL Listed to Standard 507.

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Industrial Air Circulators



Available on Greenheck's QD program, models IC (non-oscillating) and ICO (oscillating) are industrial direct-driven two-speed fans designed for air movement in humid and demanding applications, and are suitable for spot cooling and recirculating air in factories, warehouses, manufacturing facilities, and garages.



Our Commitment

As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.

Product Warranties can be found online at Greenheck.com, either on the specific product page or in the literature section of the website at Greenheck.com/Resources/Library/Literature.



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