

FN1AAF
Size 005
Carrier OptiClean™ Negative Air Machine



Product Data



Fig. 1 – Carrier OptiClean™ Negative Air Machine

A200220

The Carrier OptiClean negative air machine is a portable, minimum 500 CFM solution primarily designed to help convert normal hospital rooms into Airborne Infectious Isolation (AII) rooms. Designed to ASHRAE's Standard 170 for Ventilation of Health Care Facilities, the Carrier OptiClean uses highly efficient filters and a heavy duty, yet quiet, motor to remove contaminated air from the room. The resulting negative air pressure, or "vacuum effect," helps limit the spread of air-based contaminants into surrounding areas. If negative pressure is not required, such as in an open-air, temporary hospital, the machine can be used as an air "scrubber," pulling air in, removing many contaminants, and discharging cleaner air back into the room.

The Carrier OptiClean negative air machine is currently designed for commercial applications only.

STANDARD FEATURES

- 99.97% efficient long-life HEPA filter removes particles as small as 0.3 microns
- Standard MERV 7 or higher pre-filter available locally
- Minimum 500 CFM
- Meets or exceeds ASHRAE Standard 170: Ventilation of Health Care Facilities
- Vertical design for smaller footprint compared to many competitors
- Portable and adaptable to nearly any location
- Heavy duty locking casters for easy and smooth transport
- HEPA filter rack and sealing design meet air leakage requirement
- Red lighted indicator to alert user when filters are overloaded (generally means pre-filter requires replacement)
- Green ON/OFF switch illuminates to verify when running
- 10-foot long power cord with strain relief
- 115V
- Galvanized steel, pre-painted cabinet is fully insulated
- Exhaust transition plate to standard 10-inch round duct included
- UL® Listed
- One year limited warranty



Fig. 2 – Room Setup Example

A200221

Model Number Nomenclature

1	2	3	4	5	6	7,8,9	10	11, 12
F	N	1	A	A	F	005	0	00
Product F = Fan Unit								
Type N = Negative Air								
Position 1 = Upflow								
Series A = Initial Series								
Electrical A = 115V, 60 Hz, 1-phase								
Cabinet F = Single-piece Cabinet								
						Heater 00 = no heater		
						Coil Type 0 = no coil		
						Capacity 005 = 500 cfm		

FN1AAF Dimensional Data

Model Size	Dimensions- inches (mm)			Unit Operating Weight lbs (kg)
	Height*	Width	Depth	
005	49-5/8 (1260.5)	17-5/8 (447.7)	22-1/16 (560.4)	125 (56.7)

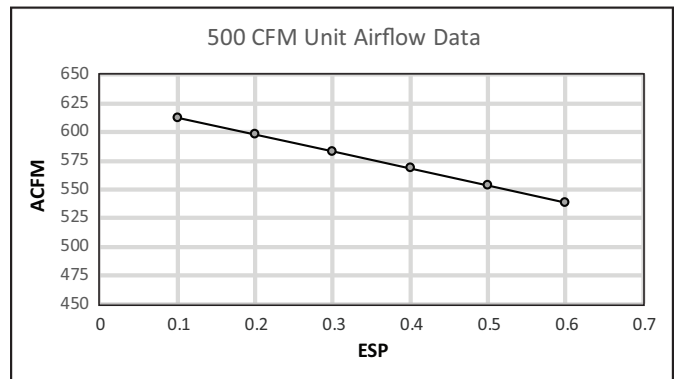
*. Height without casters. Add 3.75" when casters installed

Specifications

BLOWER & MOTOR	
Air Discharge	Vertical
Blower Type	Direct Drive
CFM (Nominal)	500
Motor Type	ECM
Motor HP	3/4
Rated RPM	1500
FILTERS	
Factory Installed - in.	Pre-Filter - 16 x 20 x 2 HEPA - 16 x 20 x 12
ELECTRICAL DATA	
Voltage	115
Hertz	60
Amps	5.0

Static Pressure

External Static Pressure (ESP)	0.1	0.2	0.3	0.4	0.5	0.6
Actual Flow (CFM)	613	598	583	568	554	539



Airflow based upon clean pre-filter at 115V with factory-approved HEPA filter.
Measured with 10 feet of flex duct installed.