

**FN1AAF**  
**Size 005**  
**Carrier OptiClean™ Negative Air Machine**



## Product Data

### 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. 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.



**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     |
| <b>Product</b><br>F = Fan Unit                |   |   |   |   |   |                                  |    |        |
| <b>Type</b><br>N = Negative Air               |   |   |   |   |   |                                  |    |        |
| <b>Position</b><br>1 = Upflow                 |   |   |   |   |   |                                  |    |        |
| <b>Series</b><br>A = Initial Series           |   |   |   |   |   |                                  |    |        |
| <b>Electrical</b><br>A = 115V, 60 Hz, 1-phase |   |   |   |   |   |                                  |    |        |
| <b>Cabinet</b><br>F = Single-piece Cabinet    |   |   |   |   |   |                                  |    |        |
|                                               |   |   |   |   |   | <b>Heater</b><br>00 = no heater  |    |        |
|                                               |   |   |   |   |   | <b>Coil Type</b><br>0 = no coil  |    |        |
|                                               |   |   |   |   |   | <b>Capacity</b><br>005 = 500 cfm |    |        |

## FN1AAF Dimensional Data

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

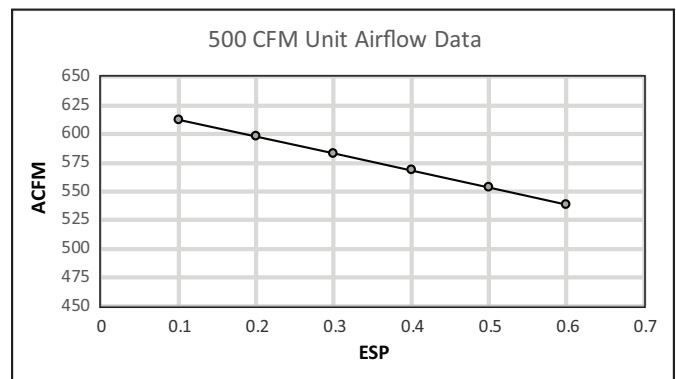
\*. Height without casters. Add 3.75" when casters installed

## 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<br>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.