



Fig. 1 – OptiClean[™] Negative Air Machine and Air Scrubber

The OptiClean[™] negative air machine is a portable 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 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, a business location or home, the machine can be used as an air "scrubber," pulling air in, removing many contaminants, and discharging cleaner air back into the room.

The unit can be operated either vertically as shown, or horizontally.

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
- Minimum 200 CFM, Maximum 1500 CFM
- Meets or exceeds ASHRAE Standard 170: Ventilation of Health Care Facilities
- Vertical design for smaller footprint compared to many competitors, and can be mounted and operated horizontally when necessary
- · 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
- 3-second motor start delay
- 3-speed selector switch on 006 and 015 models for various air flow ranges
- 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 (005/006 sizes) or 12-inch oval (015 size) duct included
- UL® Listed
- · One year limited warranty



Fig. 2 – Room Setup Example for Negative Air

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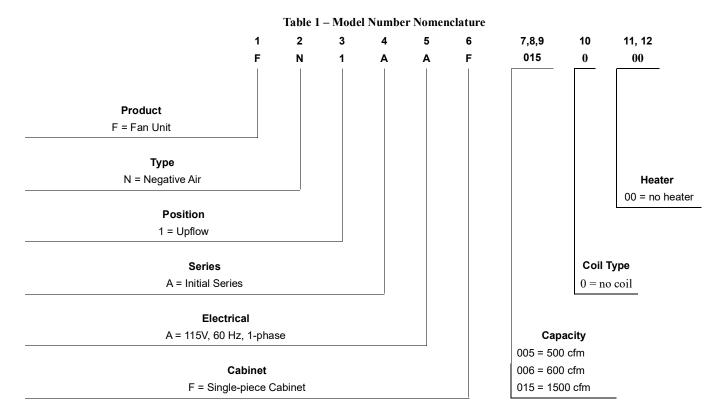


Table 2 – FN1AAF Basic Dimensional Data

Model Size		Unit Operating Weight		
woder Size	Height [*]	Width	Depth	lbs (kg)
005, 006	49-5/8 (1260.5)	17-5/8 (447.7)	22-1/16 (560.4)	125 (56.7)
015	53-7/16 (1357.3)	21-1/8 (536.6)	22-1/16 (560.4)	150 (68.0)

*. Height without casters. Add 3-5/8" (92.1 mm) when casters installed

Table 3 – Specifications

	005, 006 Size	015 Size					
Air Discharge	Vertical						
Air Intake Dimension (thru bottom) - in. (mm)	15-1/2 x 19-13/16 (387 x 503)	19 x 19-13/16 (483 x 503)					
Blower Type	Direct Drive						
CFM (Nominal)	500	500 / 1000 / 1500					
Motor Type	E	CM					
Motor HP	1/3 or 3/4	1.0					
Rated RPM	15	500					
	FILTERS (in.)						
Factory Installed - in.	Pre-Filter - 20 x 20 x 2 HEPA - 20 x 20 x 12						
	ELECTRICAL DATA						
Voltage	1	15					
Hertz	6	60					
Amps	5.0	12.0					

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

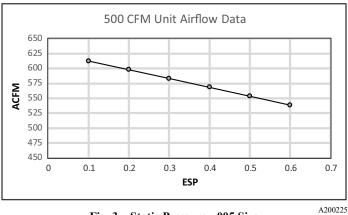


Fig. 3 – **Static Pressure - 005 Size** n clean pre-filter at 115V with factory-approved HEPA filter.

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

Unit Airflow Data (CFM)										
Switch Setting	Motor Tap External Static Pressure (ESP)									
Switch Setting	Number	0.01*	0.1	0.2	0.3	0.4	0.5	0.6		
Alternate 1	5	731	706	685	664	643	624	606		
High	4	524	496	471	446	419	394	370		
Medium	3	428	396	367	335	309	280	254		
Alternate 2 2		350	320	287	254	224	195	162		
Low	1	248	216	179	140					
* CFM with acc	cessory Air D	iffuser (no a	e)							

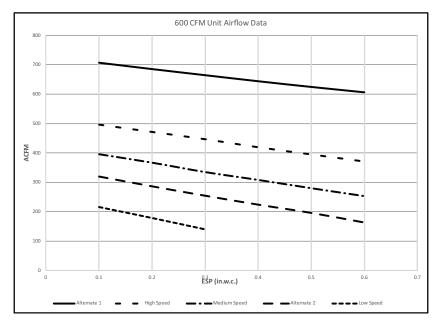
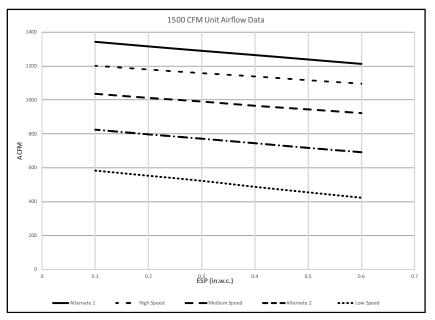


Fig. 4 – Static Pressure - 006 Size

Unit Airflow Data (CFM)											
Switch Setting	Motor Tap		External Static Pressure (ESP)								
Switch Setting	Number	0.01*	0.1	0.2	0.3	0.4	0.5	0.6			
Alternate 1	5	1462	1342	1315	1289	1264	1238	1212			
High	4	1280	1201	1179	1158	1139	1117	1097			
Medium	3	1104	1037	1013	992	967	946	924			
Alternate 2	2	885	826	798	772	745	717	692			
Low	1	637	583	552	522	487	454	422			
* CFM with acc	* CFM with accessory Air Diffuser (no adapter plate)										



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Fig. 5 – Static Pressure - 015 Size 1.Airflow based upon clean pre-filter at 115V with factory-approved HEPA filter.

2.Measured with adapter plate installed

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

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High-Altitude Adjustment

Depending on your location, you may see up to 10% increase of measured airflow at higher altitudes. To compensate, you can change motor taps for alternate airflows. See instructions in the Operation and Maintenance Manual.

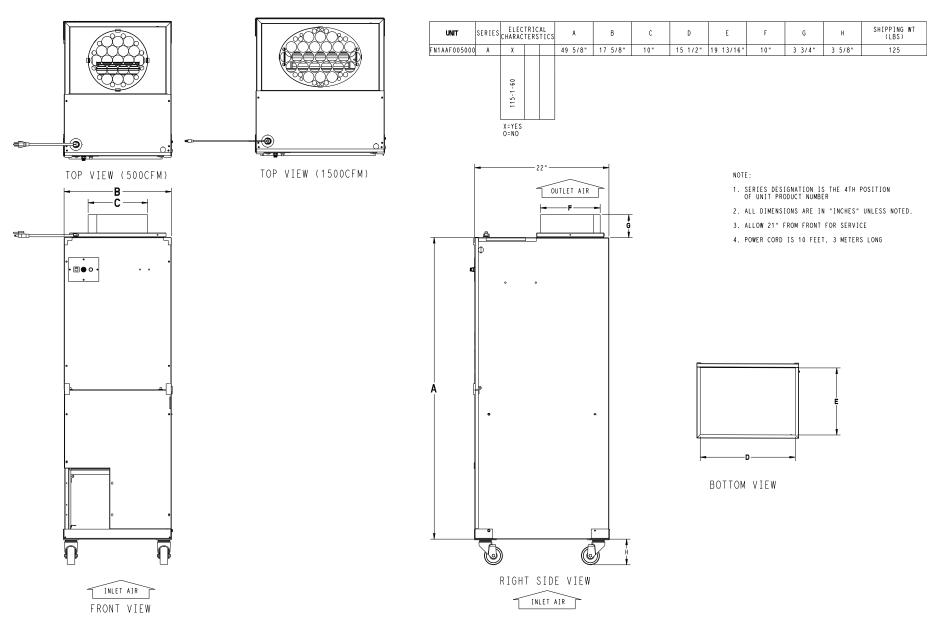
			005 Model		
Motor Tap [*]	Switch Position	Nominal Airflow [†]	as NAM (dB)	as Scrubber (dB)	with Accessory Diffuser (dB)
1		375	48	54	51
2		425	51	57	54
3	Factory Setting	500	53	59	57
4		575	55	61	59
5		600	55	62	60
			006 Model		
Motor Tap	Switch Position	Airflow	as NAM (dB)	as Scrubber (dB)	with Accessory Diffuser (dB)
1	Low	200	39	41	39
2		300	43	46	43
3	Medium	400	45	49	46
4	High	500	49	52	50
5		700	51	58	56
			015 Model		
Motor Tap	Switch Position	Airflow	as NAM (dB)	as Scrubber (dB)	with Accessory Diffuser (dB)
1	Low	600	51	53	49
2		800	56	59	55
3	Medium	1050	60	63	59
4	High	1200	61	65	62
5		1350	61	67	64

Table 4 –	Sound	vs Airflow	Data
	Sound	v 5 All 110 W	Data

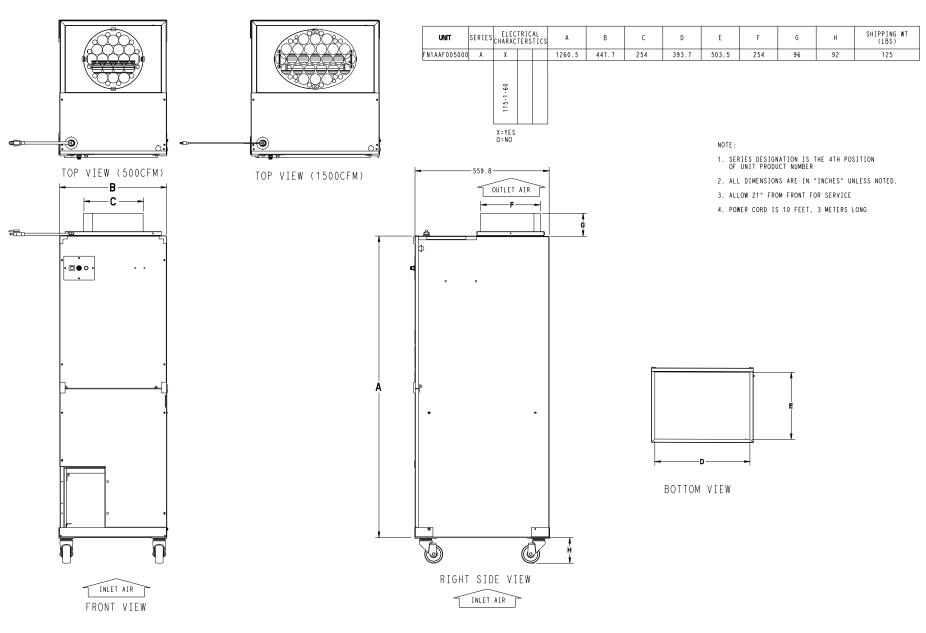
*. The factory-set low and medium airflow can be moved to Speed Tap 2 or Speed Tap 5 airflow respectively, by removing the upper panel and moving the motor pin selection. The factory set for and mental annow can be more due to speed to peed tap 2 annow respectively, of a Refer to Operation and Maintenance manual for procedure.
Airflow measured at 0.10 ESP (external static pressure). For other ESP values, see Static Pressure tables above.

	1						Table 5 – C	Jetave Dal	lu Souliu	Data						
		Negativ	ve Air Mac	hine Mode)		Air	Air Scrubber Mode with Adaptor Plate					Air Scrubber Mode — with Air Diffuser			
	Hz	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5
	OA (dB(A))	48	51	53	55	55	54	57	59	61	62	51	54	57	59	60
	Octave (dB(A))	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5
	125	41.3	44.6	46.9	48.6	48.3	42.0	44.7	46.9	49.0	49.8	43.4	46.3	48.6	50.5	51.4
005	250	42.3	45.2	47.0	48.5	49.1	44.8	47.1	49.2	50.9	51.5	44.3	47.1	49.4	51.2	51.8
SIZE	500	41.8	44.3	46.3	47.6	48.6	47.1	49.7	51.8	53.4	54.0	43.7	46.2	48.6	50.5	51.2
	1000	40.3	42.9	45.0	46.4	46.7	48.9	51.4	53.4	55.2	55.9	43.3	46.3	49.1	51.2	52.1
	2000	38.3	41.0	43.3	44.5	45.0	48.2	50.9	53.2	55.0	55.6	43.2	46.3	49.2	51.3	52.1
	4000	32.6	35.8	38.3	39.8	40.4	44.4	47.7	50.3	52.3	53.0	40.7	44.3	47.6	50.0	50.9
	8000	23.4	26.2	28.7	30.8	31.5	34.6	38.4	41.6	44.1	45.1	32.1	35.8	39.1	41.7	42.6
	Hz	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5
	OA (dB(A))	39	43	46	49	51	41	46	49	52	58	39	43	46	50	56
		00	40	40	40	01		40	40	02	00	00	40	40	00	00
	Octave (dB(A))	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5
	125	31.8	35.2	38.2	42.2	45.0	31.3	34.6	37.4	40.9	46.5	31.1	35.0	37.9	41.7	48.2
006 SIZE	250	32.7	36.6	38.9	41.8	46.1	34.1	38.0	40.3	43.2	49.3	34.0	37.7	40.1	43.2	49.7
SIZE	500	32.7	36.5	39.0	41.7	43.4	35.2	39.8	42.2	45.2	49.9	32.1	36.0	38.6	41.9	47.8
	1000	29.8	34.9	37.7	40.7	42.5	35.3	40.8	43.9	47.5	52.3	28.9	34.2	37.4	41.4	48.0
	2000	26.8	32.8	35.9	39.4	41.3	31.8	38.3	41.7	45.7	50.9	27.2	33.4	37.0	41.4	48.3
	4000	22.5	28.1	31.9	35.8	37.9	25.1	31.7	36.1	40.8	47.1	23.7	29.8	34.1	39.1	47.2
	8000	20.4	21.6	23.8	27.2	29.2	20.6	23.3	26.9	31.7	38.8	20.5	22.5	25.5	30.1	38.5
	Hz	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5
	OA (dB(A))	5 peeu 1 51	5 peeu 2 56	60	61	61	53	5 peeu 2 59	63	65	67	49	55 55	59	62	5peeu 5 64
		51	50	00	01	01	55	59	03	03	07	49	55	39	02	04
	Octave (dB(A))	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5
	125	44.5	49.9	54.1	55.2	55.4	42.7	48.6	52.9	55.2	55.9	43.1	49.1	52.9	55.0	56.1
015 SIZE	250	44.2	49.2	52.9	54.4	54.5	45.3	50.6	55.0	57.1	57.7	43.7	48.8	52.6	54.7	56.6
SIZE	500	42.5	47.2	51.0	52.3	52.4	46.2	50.9	55.6	57.6	59.5	40.6	46.1	50.3	53.0	55.1
	1000	42.8	48.1	52.0	53.5	53.6	47.5	52.6	57.5	59.4	61.1	40.1	46.6	51.1	54.0	56.7
	2000	40.7	46.1	50.1	51.5	51.7	46.4	51.6	56.4	58.4	60.7	40.2	46.6	50.9	53.9	56.7
	4000	35.9	42.3	46.7	48.3	48.3	41.2	48.0	52.8	55.4	57.8	37.6	45.1	50.1	53.8	56.1
	8000	27.8	35.6	41.6	43.4	43.4	31.1	39.1	44.9	48.4	50.4	27.9	35.4	41.6	46.3	48.6

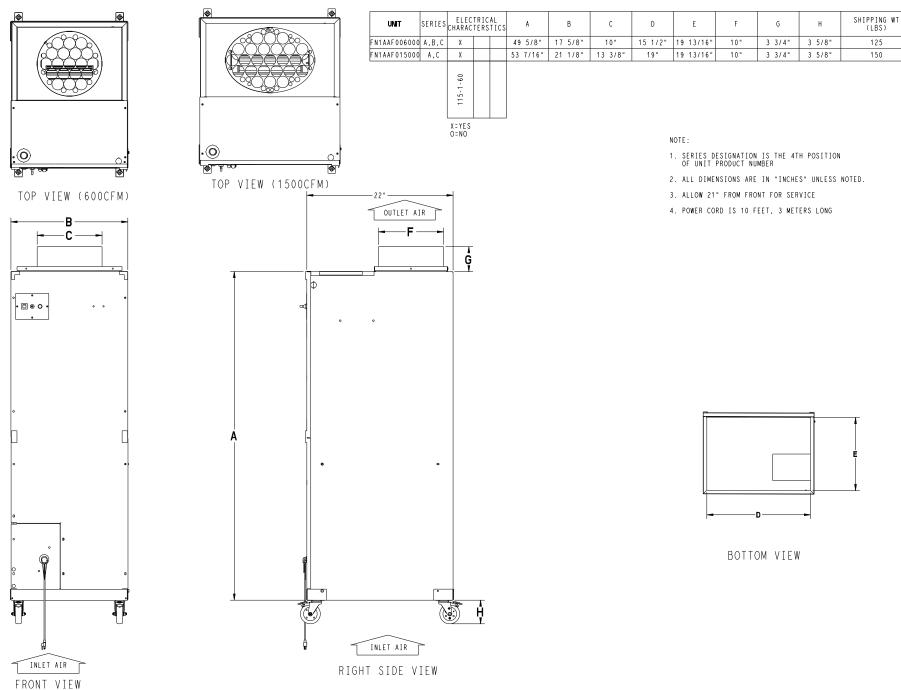
FN1AAF 005 Size Detailed Dimensions - English



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FN1AAF 006/015 Size Detailed Dimensions - English



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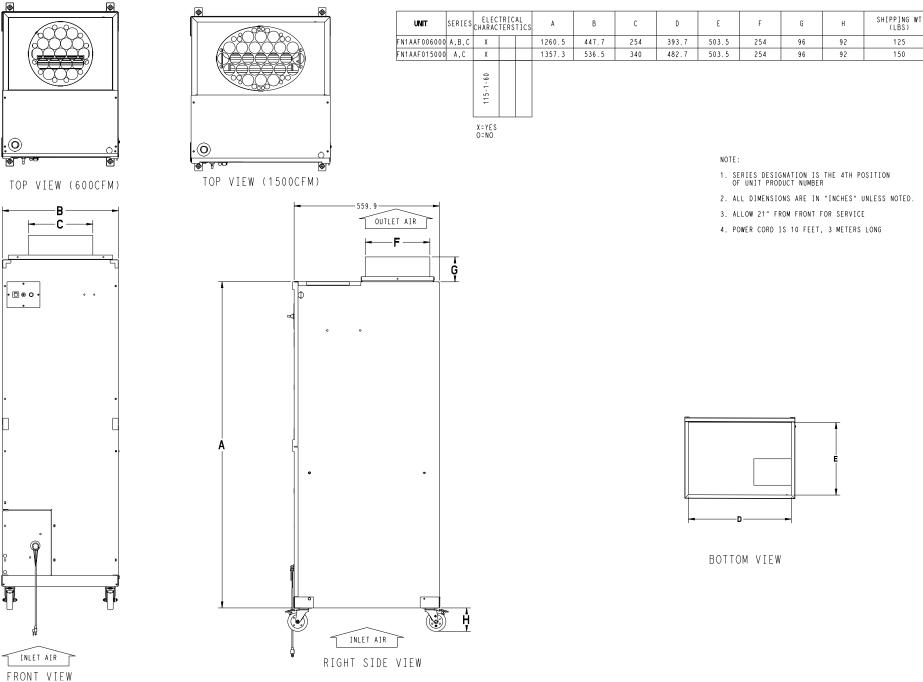


Table 6 – Accessories

Description	P/N	Used On Models		
Diffuser for Air Scrubber - Small	KFADG0101SML	005, 006		
Diffuser for Air Scrubber - Large	KFADG0101LRG	015		