



HEPA-AIRE® H4500: Setting the Standard for High Performance Commercial Duct Cleaning



The HEPA-AIRE 4500 Portable Power Vacuum is the ultimate portable duct cleaning unit for commercial and industrial applications. It enables contractors to clean commercial and industrial duct systems quickly, thoroughly, and efficiently, whether they are on the first floor or the 81st floor. This high-performance system utilizes the same patented, modular design technology as our popular H2500IV residential unit.

SUPERIOR AIR FLOW

The H4500 is the most powerful and efficient 115 volt portable power vacuum available. With peak airflow over 4,000cfm, and peak static of 8.4 in. w.g., it can tackle any size commercial job with power to spare, yet it starts and runs smoothly and efficiently on two 115 volt/20 amp circuits. A 230 volt/50 hz model is also available for export customers.

The H4500 doesn't just cram two motors and blowers into a cabinet designed for one. It is designed from the ground up specifically to provide commercial duct cleaning companies with the extra vacuum power they need. It utilizes two high-efficiency, high speed, 1.5 horsepower motors to drive two backward curved "AT-Gold" blowers at speeds up to 5,000 rpm.

These state-of-the-art anodized aluminum blowers provide superior performance and safety compared to plastic blowers, and feature a computer-designed blade pattern for optimum aerodynamic performance. This added power enables the H4500 to continue to pull incredibly high airflow even as filters load. The results: the job gets done faster, cleaning is more thorough, and filters last longer.

THREE-STAGE FILTRATION PROCESS

The H4500 features three-stage filtration beginning with a reusable and washable nylon mesh bag prefilter (3+ cu. ft. capacity) to capture most of the larger visible dirt and debris. The second-stage deep-pleated bag filter has 2.5 cubic feet of dirt holding capacity, and a 65% ASHRAE dust spot efficiency. It captures most remaining visible (10+ microns) contaminants.

The final-stage is an ultra-high quality and capacity HEPA filter, with an anodized aluminum frame. Each filter is performance tested and certified to a minimum filtration efficiency of 99.99% @ 0.3 microns, in accordance with IEST-RP-CC001.3 and exceeds CDC requirements for use in healthcare facilities.

DURABLE AIRCRAFT CONSTRUCTION

The H4500 is designed and built to provide many years of reliable, on the job use. The special aircraft aluminum alloy cabinets are strong, lightweight, and chemically anodized for superior corrosion resistance, durability and appearance. Solid rivets and seams sealed with closed cell neoprene gaskets assure strong, airtight construction, with no bypass of contaminated air. Use of the only the highest quality components further ensures performance and reliability.

PORTABLE AND MANEUVERABLE

This upright, four-module system is easily rolled on its built-in dolly from the transport vehicle to the job site by one person. If necessary, one or more of the three lightweight upper modules can be quickly detached from the main power module and hand carried.

Other portability features include: large, inboard rear wheels with smooth, non-marking, shock-absorbing tires; stair climbers with non-marking belts; hospital-type corner bumpers; and, 360° swivel casters with shock absorbing mounts.

USER FRIENDLY CONTROLS

H4500 controls are sophisticated, yet simple to use. Controls for each motor include: a turn and lock male plug for the power cord; on/off switch; power indicator lamp; hour meter; GFCI; pop-out breaker; and, variable amperage adjustment. The adjustment feature enables users to set the unit for peak performance on 115-volt, 15 or 20-ampere circuits, and to increase motor and blower speed to compensate for filter loading losses. All electrical components are UL/CSA listed. To protect components, the panel is recessed and has a hinged cover plate.

Filtration system monitoring controls include a, 5-in. diameter, color-coded pressure gauge; an amber "filter replacement" indicator lamp; and, an audio filter alarm.

PATENTED DESIGN

HEPA-AIRE duct cleaning vacuums are manufactured under the following U.S. Patents; 5,069,691; 5,588,985; and 5,593,470.



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Powerful & Maneuverable

The Portable Powerhouse For Commercial Jobs.

12" Inlet Collar
With Clamp

Inlet Module
With First-Stage
Reusable Bag
Filter

Second-Stage
Module With
65% ASHRAE
Pleated Bag
Filter

Third-Stage
Module With
99.99% HEPA
Filter

Top-Hinged
Control Panel
Access Door
With Closure
Latch

Recessed
Control Panel
With UL/CSA
Listed Electrical
Components

Power Module
With 2 Motors
And 2 AT
Gold Blowers

360° Front
Swivel Casters

Hinged Access Door
For First-Stage
Prefilter

Recessed
Carrying Handles
(2) On Each Module

Upper Handle
Casters For
Vehicle Loading
And Unloading
(Not Visible)

Heavy-Duty
Locking Cam
Latches

.080 Anodized
Aircraft Aluminum
Cabinetry/Solid
Rivet Fasteners

Integral Transport
Cart/Built-In
Stairclimber System
(Not Visible)

Inboard Rear
Wheels With
Smooth,
Non-Marking
Rubber Tires

Hospital-Type
Corner Bumpers



HEPA-AIRE® Vacuums: Performance & Specifications

	H2500IV	H2500C	H2200	H4500
CABINETRY:	High gloss .080 aircraft aluminum with non-marking stainless anodized coating	Salin-coat steel with corrosion-resistant hammertone powder coating	Aluminum with corrosion-resistant hammertone powder coating	High gloss .080 anodized aluminum alloy (same as H2500IV)
WEIGHT and DIMENSIONS:				
Overall Weight Overall Dimensions	180 lbs. 20 5/8"W x 30"D x 58"H	167 lbs. 26"W x 30 7/8"D x 59 1/8"H	95 lbs. 18"W x 22"D x 49 3/4"H	264 lbs. 26 5/8"W x 31"D x 62 1/2"H
Inlet Module Weight Inlet Module Dimensions	17 lbs. 20 5/8"W x 25 1/2"D x 12 1/2"H	31 lbs. 19 1/2"W x 25 1/8"D x 27 1/2"H	n/a	20 lbs. 26 5/8"W x 25 1/2"D x 12 1/2"H
Bag Filter Module Weight Bag Filter Module Dimensions	20 lbs. 20 5/8"W x 25 1/2"D x 14 3/4"H	n/a	n/a	25 lbs. 26 5/8"W x 25 1/2"D x 13 3/4"H
HEPA Module Weight HEPA Module Dimensions	33 lbs. 20 5/8"W x 25 1/2"D x 8"H	n/a	n/a	67 lbs. 26 5/8"W x 25 1/2"D x 13 1/2"H
Power Module Weight Power Module Dimensions	110 lbs. 20 5/8"W x 30"D x 22 3/4"H	136 lbs. 26"W x 30 7/8"D x 31 5/8"H	n/a	152 lbs. 26 5/8"W x 31"D x 22 3/4"H
PEAK BLOWER PERFORMANCE*:	2,750 cfm, 8.4" w.g. static	2,300 cfm, 5.0" w.g. static	1,800 cfm, 5.0" w.g. static	4,100 cfm, 8.4" w.g. static
ELECTRICAL REQUIREMENTS:	115 volt/15 or 20 ampere/60 hz**	115 volt/15 ampere/60 hz	115 volt/15 ampere/60 hz	2 ea. 115 volt/15 or 20 ampere 60 hz circuits ***
MOTOR:	1.5 hp high efficiency w/automatic thermal overload protection	1.5 hp industrial grade high efficiency motor with thermal overload protection	1.5 hp direct drive DC	2 ea. 1.5 hp direct drive DC
BLOWER:	315mm AT Gold backward curved anodized aluminum blower	Same as H2500IV	250mm AT Gold backward curved anodized aluminum blower	2 ea. 315mm AT Gold Blowers (same as H2500IV)
INTEGRAL TRANSPORT CART:	Yes	Yes	Yes	Yes
360° FRONT SWIVEL CASTERS:	Yes	Yes	Yes	Yes
NON-MARKING WHEELS:	Yes, 10" diameter	Yes, 10" diameter	Yes, 8" diameter	Yes, 10" diameter
NON-MARKING STAIRCLIMBER:	Yes	Yes	Yes	Yes
ELECTRICAL CONTROLS:				
Electronic Performance Enhancement	Yes, IntelliVac AC Controller	No	No	Yes, DC Controller (2)
Amperage Adjustment Switch	Yes	No	No	Yes
Main Power Switch	Yes	Yes	Yes	Yes (2)
"Power On" Visual Indicator	Yes	Yes	Yes	Yes (2)
Power Cord Receptacle	Twist-Lock	Hard Wired	Hard Wired	Twist Lock (2)
GFCI	Yes	Yes	No	Yes (2)
Operating Hour Meter	Yes	Yes	Yes	Yes (2)
Motor Amperage Gauge	Yes	No	No	Yes (2)
Magnehelic Gauge	Yes, 0-10" w.g.	Yes, 0-5"	No	Yes, 0-10"

* Airflow ratings are based on third party testing conducted @ 115 VAC with clean filters in accordance with generally accepted testing methods using highly accurate electronic flow measurement equipment. Different testing methods may produce higher or lower results. Ratings have been rounded off to the nearest 50 cfm for convenience.

** 220-230 volt/50hz model also available (Part #H2500TF). *** 220-230 volt/50hz model also available (Part # H4500TF).



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