

HVLS

FAN SYSTEMS

BUILDING VALUE IN AIR

High Volume, Low Speed Fans

Models WC and WS

Direct Drive HVLS



Model WC and WS HVLS Fans



Whether it is for comfort cooling, destratification, or for architectural purposes, we have you covered! Windstorm strives to provide you with the highest performing fans on the market through our extensive research, testing and product offering.

Model WC

Model WC5 is an aesthetic five-blade, direct drive design for use in commercial spaces with low to medium height ceilings. With its sleek design, the WC5 combines comfortable air movement with a variety of unique color options. These fans are effortless to install with a total weight less than one hundred pounds, the lightest among comparable HVLS fans.

- Fan diameters are 8 and 12 ft.
- Up to 54,900 cfm

Applications:

- · Office spaces
- · Restaurants and bars
- Education facilities
- · Supermarkets and grocery stores
- · Retail stores
- · Fitness centers



Model WS

Model WS3 is an efficient and economical three-blade, direct drive HVLS fan designed for commercial or industrial spaces with medium to high ceilings. These economical fans are the ideal balance between cost and performance, making them a smart choice for budget-conscious building owners. Plus, with a lighter weight than comparable HVLS fans, the WS3 is a breeze to install in any building.

- · Fan diameters between 16 and 24 ft.
- Up to 164,900 cfm

Model WS6 is a six-blade, direct drive HVLS fan designed for commercial or industrial spaces with medium to high ceilings. As the industry's best performing HVLS fan, the WS6 delivers unrivaled airflow at incredibly quiet sound levels. Along with reduced operating costs, the WS6 is clearly the best value HVLS product on the market.

- Fan diameters between 8 and 24 ft.
- Up to 243,000 cfm

Applications:

- Airports
- Gymnasiums
- · Agricultural facilities
- · Manufacturing facilities
- · Automotive facilities
- · Distribution centers
- · Stadiums and arenas





Standard Construction and Features

	WC5	WS3	WS6
Building Types	High End Residential & Commercial	Commercial & Industrial	Commercial & Industrial
Max CFM Range	28,500 - 54,000	87,900 - 164,900	28,600 - 243,000
Max Coverage Area Range (ft ²)	9,200 - 12,500	13,200 - 18,700	11,300 - 23,700
Fan Size (ft)	8 - 14	14 - 24	8 - 24
AMCA Certification	-	_	Circulating Fan Performance
UL/cUL 507 Listed for Electrical	√	$\sqrt{}$	√
Universal Ceiling Mount	√	$\sqrt{}$	√
Weight (lbs)	70 - 91	121 - 141	129 - 222
Direct Drive Motor (hp)	1/4	3/4	3/4 - 1-1/2
Voltage & Phase	115-230/1	208-277/1, 208-460/3	208-277/1, 208-460/3
Drop Length (ft)	2	3-1/2	3-1/2
Airfoil Finish*	Mill	Mill	Mill
Accent Color	Black	Black	Black
50 ft. of CAT-5e Control Cable	√	$\sqrt{}$	√
Fire Relay (for Fire Suppression System)	V	V	√
10 Year Warranty	√	V V	
*Custom color options available upon re	equest with an additional paint charge	e. Contact factory for details.	

Standard Construction Features

Airfoils - Unique extruded aluminum airfoil shape is designed to maximize airflow and coverage area. Intelligent VFD and Motor - Factory-mounted, wired

and programmed variable frequency drive (VFD). Direct drive motor and VFD combination result in high efficiency, low sound and ultra light installation. Smart features include over-speed and impact detection along with temperature, voltage and current monitoring.

Fire Relay - Keep your buildings and products safe. Low voltage relay can be wired into a building's fire suppression system for automatic fan shutdown when sprinklers are activated.

Guy Wire Kit - Braided steel guy wires prevent lateral fan movement for safe installations.

Model WC: 15-foot guy wires included for drop lengths greater than four feet.

Model WS: 20-foot guy wires included with all drop lengths.

Certifications



EuroVent certifies that the model WS6 Destratification Fan shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



Optional Accessories and Controls



Mounting Kits - Designed to mount to a variety of building structures. Kit options available for I-Beam, steel truss, Unistrut®, wood beam, and Z-purlin.

LED Light - Model WS only - Light option with 150W, 19,500 lumen output rating, and 120° beam angle. Requires separate 115V power (by others).

Extended Drop Lengths - By using extended drop lengths, the fan can accommodate every space, even sloped ceilings. Various drop lengths are available.

Model WC: 3 to 10 foot Model WS: 4 to 10 foot

Extended Length CAT-5e Control Cable - Allow flexibility with the install and placement of control options with the selections of 75 ft. or 100 ft. of CAT-5e control cable.

Disconnect Switch - Toggle type and heavy duty disconnect switches, both with fused protection options, are available for positive electrical shut-off and safety in servicing fans.

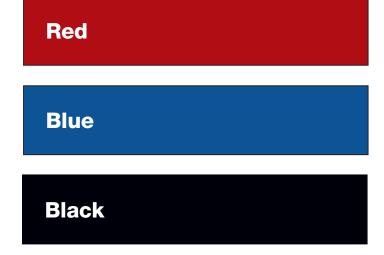
Extended Warranty - Protect your investment with an 11, 12, 13, or 14 year extended warranty.

HVLS Keypad Control - Keypad control with LCD display can operate up to five fans of the same model and size as a group, with all fans running at the same speed and direction. The keypad control provides full status monitoring capability and fault-logging, making this an excellent stand-alone control solution.

HVLS Touchscreen Control - Touchscreen control with LCD display. Group or independently control up to 10 fans with any combination of models and sizes, allowing maximum flexibility and convenience. Supports fan scheduling, password protection and advanced fan diagnostics for ease in troubleshooting.

HVLS Touchscreen Control with BACnet - Ability to communicate with a building management system (BMS) through BACnet MS/TP. Allows a BMS to control or monitor the status of the entire HVLS fan system through a single access point, simplifying integration in the field.

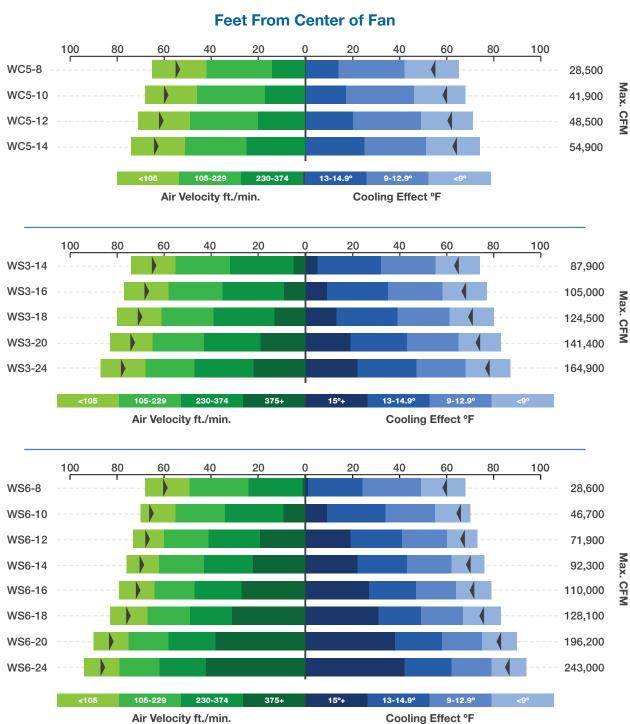
Finish Options - Available for the winglets, downtube, hub plate, airfoils, and universal ceiling mount.
Unlimited custom color match or select from 3 standard paint colors (Hi-Pro Polyester).



* Color is for reference only and is not to be used for final color matching. Anodize finish not shown. Additional charge may apply.



It is important to understand how the size and aerodynamics of the fan affect the velocity of air movement and the benefits of increased air in the building area. Selection guides such as the one shown below help identify the best HVLS fan for your application based on fan size and aerodynamics. This selection guide uses the widely respected and accepted ANSI/ASHRAE 55 Standard to illustrate the perceived cooling effect that happens with the addition of HVLS fans.



Recommended Max. Coverage Area

Testing conditions are based on a fan operating at full speed mounted 20 feet above the floor with air velocity measured at a height of 4 feet.

Air Performance



Model WC5

Fan Diameter (ft.)	Fan RPM	CFM	Total Sound Pressure (dBA)	Max. Coverage Area (ft.)	Max. Coverage Radius (ft.)	Min. Fan Spacing (ft.)	*Integrated Efficiency (CFM/W)	Base Fan Weight (lbs.)
8	180	28,500	55	9,200	54	24	149	70
10	143	41,900	55	11,300	60	30	188	77
12	99	48,500	48	12,000	62	36	270	84
14	73	54,900	45	12,500	64	42	375	91

^{*}Based on 115/60/1 testing per 10 CFR 430

Model WS3

Fan Diameter (ft.)	Fan RPM	CFM	Total Sound Pressure (dBA)	Max. Coverage Area (ft.)	Max. Coverage Radius (ft.)	Min. Fan Spacing (ft.)	*Integrated Efficiency (CFM/W)	Base Fan Weight (lbs.)
14	120	87,900	50	13,200	65	42	184	121
16	100	105,000	48	14,200	68	48	221	126
18	86	124,500	48	15,800	71	54	250	130
20	75	141,400	48	17,200	74	60	284	135
24	56	164,900	48	18,700	78	72	372	144

^{*}Based on 208/60/3 testing per 10 CFR 430

Model WS6

Fan Diameter (ft.)	Fan RPM	CFM	Total Sound Pressure (dBA)	Max. Coverage Area (ft.)	Max. Coverage Radius (ft.)	Min. Fan Spacing (ft.)	*Integrated Efficiency (CFM/W)	Base Fan Weight (lbs.)
8	142	28,600	45	11,300	60	24	133	129
10	136	46,700	49	13,600	66	30	128	138
12	119	71,900	49	14,500	68	36	148	147
14	97	92,300	49	15,300	70	42	190	156
16	81	110,000	48	16,200	72	48	221	165
18	69	128,100	47	18,100	76	54	262	174
20	78	196,200	52	21,600	83	60	224	204
24	61	243,000	50	23,700	87	72	249	222

^{*}Based on 208/60/3 testing per ANSI/AMCA Standard 230 and 10 CFR 430



EuroVent certifies that the model WS6 Destratification Fan shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seals applies to air performance ratings only. The AMCA Certified Ratings Seal applies at free delivery only. Performance ratings do not include the effects of appurtenances (accessories).



Model WC

Ceiling mounted circulation or destratification fans shall be of the large diameter direct drive (high volume, low speed) type.

Fan construction shall include a universal ceiling mount that is designed for fast and secure connection to a variety of ceiling substrates via heavy-duty mounting hardware kits (specified upon order). Universal ceiling mount shall be constructed of heavy gauge steel and shall include a single-axis pivot to accommodate any ceiling angle. Fans shall also include a heavy gauge steel downtube to provide a structural connection between the universal ceiling mount and fan motor. Downtube shall include a factory-programmed variable frequency drive. All components of the universal ceiling mount and downtube shall be powder-coated for corrosion resistance and aesthetic appearance.

Motors shall be of the high torque, low speed direct drive type, carefully matched to the fan load and furnished at the specified voltage and phase. Motors shall include plug-and-play connectors for power and control wiring to the variable frequency drive. Motors shall also be provided with a factory-installed, heavy gauge steel hub with precision-cut steel struts for ease of airfoil installation.

Airfoils shall be constructed of 6005A-T6 extruded aluminum with a unique aerodynamic profile that has been optimized for maximum airflow and efficiency. Airfoils shall be provided with a mill finish as standard, with additional finishes available in a variety of types and colors (specified upon order). Airfoils shall also be provided with precision-cut, powder-coated aluminum winglets as standard.

Fan shall be provided with a multi-point, redundant safety system comprised of a heavy-duty safety retention cable, hub retention system, and airfoil retaining ring as standard.

Fan shall bear a manufacturer's nameplate containing the model number and individual serial number for future identification.

Fan shall be Model WC as manufactured by Windstorm, a division of JohnDow Industries Inc. of Barberton, OH 44203.

Model WS

Ceiling mounted circulation or destratification fans shall be of the large diameter direct drive (high volume, low speed) type.

Fan construction shall include a universal ceiling mount that is designed for fast and secure connection to a variety of ceiling substrates via heavy-duty mounting hardware kits (specified upon order). Universal ceiling mount shall be constructed of heavy gauge steel and shall include a bidirectional pivot to accommodate any ceiling angle. Fans shall also include a heavy gauge steel downtube to provide a structural connection between the universal ceiling mount and fan motor. Downtube shall include a factory-programmed variable frequency drive. Downtube shall also include a welded guy wire connection ring for fast and secure connection of the fan's guy wires. All components of the universal ceiling mount and downtube shall be powder-coated for corrosion resistance and aesthetic appearance.

Motors shall be of the high torque, low speed direct drive type, carefully matched to the fan load and furnished at the specified voltage and phase. Motors shall include plug-and-play connectors for power and control wiring to the variable frequency drive. Motors shall also be provided with a factory-installed hub that consists of heavy gauge, precision-cut aluminum plates and machined aluminum struts for ease of airfoil installation.

Airfoils shall be constructed of 6005A-T6 extruded aluminum with a unique aerodynamic profile that has been optimized for maximum airflow and efficiency. Airfoils shall be provided with a mill finish as standard, with additional finishes available in a variety of types and colors (specified upon order). Airfoils shall also be provided with precision-cut, powder-coated aluminum winglets as standard.

Fan shall be provided with a multi-point, redundant safety system comprised of a heavy-duty safety retention cable, guy wire kit, hub retention system, and airfoil retaining ring as standard.

Fan shall bear a manufacturer's nameplate containing the model number and individual serial number for future identification.

Fan shall be Model WS as manufactured by Windstorm, a division of JohnDow Industries Inc. of Barberton, OH 44203.

Model	Size	Best Available Program		
WC5	8, 10, 12, 14			
WS3	14, 16, 18, 20, 24	4 Weeks		
WS6	8, 10, 12, 14, 16, 18, 20, 24			



And, of course, you can always count on the personal service and expertise of our national and international representative organization. To locate your nearest EuroVent HVLS representative call 800.433.0708 or visit our website at www.euroventexhaustextraction.com

Building Value in Air

EuroVent delivers value to mechanical engineers by helping them solve virtually any air quality challenges their clients face with a comprehensive selection of top quality, innovative air-related equipment. We offer extra value to contractors by providing easy-to-install, competitively priced, reliable products that arrive on time.

Our Commitment

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

Product warranties can be found online at euroventexhaustextraction.com, either on the specific product page or in the literature section of the website.



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