FumeJet® Exhaust Systems Models FJ and FJC

- Pre-engineered, single source responsibility
- Lower cost, simplified installation





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FUMEJET Exhaust Systems



Greenheck's FumeJet® line of exhaust fans with integral stacks are designed to safely remove and disperse fumes and odors. FumeJet systems replace utility set fans with field-supplied intake ducts and exhaust stacks to ensure a safe roof deck area and aid in preventing re-entrainment of contaminated air into air intake systems.











FJ direct drive with coated steel and straight stack/adjustable nozzle



FJC- Performance up to 5,000 cfm (2,360 l/s) and 4.5 in. wg (1,120 Pa)

FJ - Performance up to 18,000 cfm (8,500 l/s) and 9 in. wg (2,240 Pa)

Value-Added Advantages of Greenheck's FumeJet System	FumeJet	Field Built-up
Compact design	✓	
Single source responsibility – Eliminating component misapplication, performance and fit-up issues due to field-fabricated or sourced components	✓	
Designed to match application	✓	✓
Known performance corrections for all system components	✓	
Wind loading capacity designed and factory tested to withstand a force of 40 psf (equivalent to 125 mph or 201 Km/h) without the need for guy wires	✓	
All FumeJet systems have a minimum of 7 ft. (2.1 m) exhaust discharge height. Optional 10 ft. (3 m) height available	✓	
Corrosion-Resistant Coating – All steel components are electrostatically powder coated with corrosion-resistant Permatector™ or Hi-Pro Polyester. Both protect against a wide spectrum of acids, alkalis and solvents	√	

Eliminate Inefficient, Complicated and Unsafe Field Built-up Installations







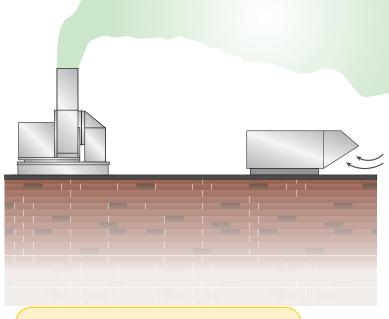


Field-built systems can lead to complicated installations, unsafe exhaust locations, and even excess energy usage due to the creation of system effects. FumeJet pre-engineered exhaust systems include the necessary mounting accessories to simplify installation because equipment supports, isolators and curbs are designed specifically for the system. Additionally, all FumeJet performance data includes losses associated with inlet boxes, dampers, and stacks to prevent unexpected performance issues, drive changes, or motor change-outs during test and balance.

Application Information



Fumes exhausted above working area for safe roof deck and over any Make-up Air (MUA) or air intakes to prevent re-entrainment back into the building. Designed per ANSI Z9.2 standard for local exhaust systems, models FJ and FJC provide a compact footprint, complementary accessories for quick and trouble free installation, and configurable mounting options to suit different building layouts.



FJ mounted on roof curb with isolators.
125 mph windload rating without guy wires

Selection software uses project volume with selected FumeJet configuration to provide effective plume height values.

Commercial Facilities

- Smoke
- Hospital/clinic
- Sterilization
- Shooting ranges
- Pharmacy
- Laboratory exhaust

Industrial Facilities

- Food packaging
- Welding
- Paint systems
- Wastewater/odor
- Indoor horticulture



Spark-Resistant Construction

Spark B The fan wheel is constructed of a nonferrous material (usually aluminum). A nonferrous (aluminum) rub ring surrounds the fan shaft where it passes through the fan housing.

Spark C The inlet cone is constructed of nonferrous material (usually aluminum). A nonferrous (aluminum) rub ring surrounds the fan shaft where it passes through the fan housing.

Protective Coating Options

Chemical Resistance Ratings						
Chemical	Bleach	Sulfuric Acid (10%)	HCI (10%)	MEK	Chlorine (0.1%)	NaOH (20%)
Permatector™	0	1	2	2	0	_
Hi-Pro Polyester	0	0	0	1	0	_
RATING DESCRIPTIONS	0 - No effect 1- Slight change in gloss or color 2- Surface etching, severe staining, but film integrity remains 3- Significant pitting, cratering, swelling, or erosion with obvious surface deterioration					

Pre-Engineered Discharge, Intake, and Easy Installation



Greenheck's FumeJet® systems are designed for quick installation and pre-engineered to eliminate component misapplication and fit-up issues. Build an application-specific FumeJet by selecting from multiple stack, discharge and intake options.

Fan Options

Stack Options



FJC



Belt-driven, arrangement 10, available in bolted construction. Compact footprint with motor and drives located under a common weatherhood.

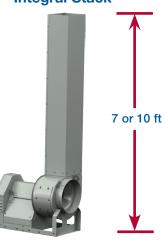
Performance up to 5,000 cfm (2,360 l/s) and 4.5 in. wg (1,120 Pa)



Available in belt or direct drive, arrangement 10 or 4, AMCA class 0, I or II. Options for spark resistance, high wind or corrosive exhausts.

Performance up to 18,000 cfm (8,500 l/s) and 9 in. wg (2,240 Pa)

Integral Stack

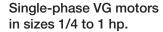


Selectable stack height with an overall system discharge height of 7 ft – Standard or 10 ft – Extended

Vari-Green® Motor

Electronically commutated (EC) Vari-Green® (VG) motor combines technology, controllability, and energy efficiency in a single, low-maintenance package that is changing the way the industry designs, specifies and operates air movement equipment.







Three-phase VG motors in sizes 1 to 10 hp.

Controls Package

Pre-programmed controls package available in the form of a UL508A weather-resistant control box. Control box consists of a factory-mounted and wired VFD, NEMA-3R disconnect, Vari-Green HOA (Hand/Off/Auto) controller, and an optional remote Vari-Green control method of choice. Configurations up to 30 hp.



Shipped loose



Mounted & wired

Vari-Green® Controls

Different configurations of optional remote controls on VG motor and VFD factory solutions.

Control methods available are:

- Remote Dial or Touch Remote
- Constant Pressure or Airflow Controller
- Indoor Air Quality Controller (IAQ)
- Temperature/Humidity Control
- Volatile Organic Compounds (VOCs)

VFD Speed Control

Variable frequency drive (VFD) is pre-programmed at the factory for job specific conditions allowing for seamless installation.

VFD configurations can be equipped with a weather-resistant enclosure and integral disconnect for outdoor use. This option is separate to the fan and requires the user to mount and wire the control box.



Discharge Options



Intake Options



Easy Installation

FumeJet with restrained isolators and

equipment supports

Straight Stack

Clean design with uniform straight discharge stack. Most economical discharge option.



Horizontal Connection







Tapered nozzle discharge increases outlet velocity sending exhaust fumes higher above the roof deck area. Does not negatively impact fan performance.



Typically used with remote fan mounting locations and ducting run along the roof deck. Slip fit or flanged connection to fan inlet. Recommended installation with three wheel diameters of straight duct prior to inlet to prevent airflow system effects.



Adjustable Nozzle

Allows the user to adjust the discharge area based on installed conditions. Four blade positions available.



Vertical Connection Curb Cap Inlet Box



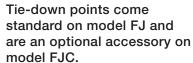
FumeJet with curb cap inlet box and GPFHL roof curb

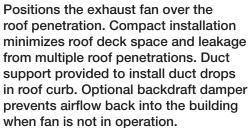




Tie-Down Points

FumeJets do not require the use of guy-wires, but they can be required on jobs looking at higher wind speed or critical applications.





Standard and Optional Construction



Motor Enclosure ODP, TEFC ODP, TEFC, EXP Arrangements Belt Drive (arrg. 10) Belt (arrg. 10) or Direct Drive (arrg. 4) Bearing Life (Hours) L₁₀ 80,000 L₁₀ 40,000, 80,000, or 200,000 Shaft Material Polished Steel Polished Steel or Stainless Steel Shaft Bearings Set screw Set Screw or Concentric lock Discharge System Height 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended Nozzle Straight, Fixed, or Adjustable Straight, Fixed, or Adjustable Performance Specs CFM Range (Min CFM) 200 cfm (95 l/s) 200 cfm (95 l/s) CFM Range (Max CFM) 5,000 cfm (2.360 l/s) 18,000 cfm (8,500 l/s) Pressure (Ps Max) 4.5 in. wg (1,120 Pa) 9 in. wg (2,240 Pa) Factory Vibration Test (peak vibration, at fan rpm, filter in) None None, 0.15 in/s (belt) or 0.08 in/s (direct) Controls Induction Motor with Variable Frequency Drive (Factory Programmed) Induction Motor with Variable Frequency Drive (Factory Programmed) Certifications Sizes 6-8 Sizes 4-24 – B7 Performance AMCA Air Performance Sizes 12-15 Sizes 4-24 – B6	Housing & Impeller Specs	FJC	FJ
Impeller Sizes	Housing Type	Scroll Housing	Scroll Housing
Impeller Sizes		Backward Inclined Centrifugal	Backward Inclined Centrifugal
Finish Types			
Construction Class N/A O, I, II	Finish Types	Galvanized, Coated Steel	Galvanized, Coated Steel
Construction Class N/A O, I, II	•••	None, Spark B or C	None, Spark B or C
Housing Construction	•	-	
Drain	Housing Construction	Permalock™	
Power Transmission Specs Motor Enclosure Arrangements Belt Drive (arrg. 10) Bearing Life (Hours) Shaft Material Polished Steel Set screw Poster W Set Screw or Concentric lock Discharge System Height 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended Nozzle Straight, Fixed, or Adjustable Straight, Fixed, or Adjustable Performance Specs CFM Range (Min CFM) CFM Range (Max CFM) Pressure (Ps Max) Pressure (Ps Max) Pressure (Ps Max) At 5 in. wg (1,120 Pa) None None, 0.15 in/s (belt) or 0.08 in/s (direct) Controls None Controls AMCA Air Performance Sizes 6-8 Sizes 4-24 – B7 Performance UL/cUL 705 Listed Power Ventilator High Wind Rating OSP-0503-10 Miami-Dade Notice Of Approval (NOA) Florida Product Approval (FLPA)		1 in. Drain Hole	1 in. Drain Hole or Threaded Drain
Motor Enclosure ODP, TEFC ODP, TEFC, EXP Arrangements Belt Drive (arrg. 10) Belt (arrg. 10) or Direct Drive (arrg. 4) Bearing Life (Hours) L₁₀ 80,000 L₁₀ 40,000, 80,000, or 200,000 Shaft Material Polished Steel Polished Steel or Stainless Steel Shaft Bearings Set screw Set Screw or Concentric lock Discharge Discharge System Height 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended Nozzle Straight, Fixed, or Adjustable Straight, Fixed, or Adjustable Performance Specs CFM Range (Min CFM) 200 cfm (95 l/s) 200 cfm (95 l/s) CFM Range (Max CFM) 5,000 cfm (95 l/s) 18,000 cfm (8,500 l/s) 18,000 cfm (8,500 l/s) Pressure (Ps Max) 4.5 in. wg (1,120 Pa) 9 in. wg (2,240 Pa) 9 in. wg (2,240 Pa) Factory Vibration Test (peak vibration, at fan rpm, filter in) None None, 0.15 in/s (belt) or 0.08 in/s (direct) Controls Induction Motor with Variable Frequency Drive (Factory Programmed) Induction Motor with Variable Frequency Drive (Factory Programmed) Induction Motor with Variable Frequency Drive (Factory Programmed) Induction Motor with	Coating (optional)	Permatector™ or Hi-Pro Polyester	-
Belt Drive (arrg. 10) Belt (arrg. 10) or Direct Drive (arrg. 4)	Power Transmission Specs		
Bearing Life (Hours) Line 80,000 Line 40,000, 80,000, or 200,000	Motor Enclosure	ODP, TEFC	ODP, TEFC, EXP
Shaft Material Polished Steel Polished Steel or Stainless Steel Shaft Bearings Set screw Set Screw or Concentric lock Discharge System Height 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 10 ft. (4 m) – Extended 10 ft.	Arrangements	Belt Drive (arrg. 10)	
Shaft Bearings Set screw Set Screw or Concentric lock Discharge System Height 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended Nozzle Straight, Fixed, or Adjustable Straight, Fixed, or Adjustable Performance Specs CFM Range (Min CFM) CFM Range (Max CFM) Pressure (Ps Max) Factory Vibration Test (peak vibration, at fan rpm, filter in) Continuous Max Temp (Optional) Speed Control (Optional) Speed Control (Optional) AMCA Air Performance AMCA Air Performance AMCA Sound and Air Performance UL/CUL 705 Listed Power Ventilator High Wind Rating 115 mph (185 Km/h) California OSHPD Seismic Miami-Dade Miami-Dade Mozzle Straight, Fixed, or Adjustable 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 7 ft. (2.1 m) – Standard 10 ft. (2.1 m) – Standard 10 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 7 ft. (2.1 m) – Standard 10 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 7 ft. (2.1 m) – Standard 10 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 7 ft. (2.1 m) – Standard 10 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended 8 traight, Fixed, or Adjustable Psteanded 18,000 cfm (95 l/s) 200 cfm (95 l/s)	Bearing Life (Hours)	L ₁₀ 80,000	L ₁₀ 40,000, 80,000, or 200,000
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Performance Specs CFM Range (Min CFM) 200 cfm (95 l/s) 200 cfm (95 l/s) CFM Range (Max CFM) 5,000 cfm (2,360 l/s) 18,000 cfm (8,500 l/s) Pressure (Ps Max) 4.5 in. wg (1,120 Pa) 9 in. wg (2,240 Pa) Factory Vibration Test (peak vibration, at fan rpm, filter in) None None, 0.15 in/s (belt) or 0.08 in/s (direct) Continuous Max Temp (Optional) 400°F (204°C) 250°F (121°C) Controls Induction Motor with Variable Frequency Drive (Factory Programmed) or VariGreen® EC motor with configured controls Certifications AMCA Air Performance Sizes 6-8 Sizes 4-24 – B7 Performance AMCA Sound and Air Performance Sizes 12-15 Sizes 4-24 – B6 Performance UL/cUL 705 Listed Power Ventilator Optional Optional High Wind Rating 115 mph (185 Km/h) 125 mph (200 Km/h) California OSHPD Seismic OSP-0503-10 - Miami-Dade Notice Of Approval (NOA) 17-0307.01 23-0707.02 (7 ft discharge height, direct drive) Florida Product Approval (FLPA) FL22703 -	System Height	, , , , , , , , , , , , , , , , , , , ,	,
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High Wind Rating 115 mph (185 Km/h) California OSHPD Seismic OSP-0503-10 - Miami-Dade Notice Of Approval (NOA) Florida Product Approval (FLPA) To ph (200 Km/h) 23-0707.02 (Without stack/nozzle) (7 ft discharge height, direct drive) Florida Product Approval (FLPA)			
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Notice Of Approval (NOA) (Without stack/nozzle) (7 ft discharge height, direct drive) Florida Product Approval (FLPA) FL22703 –		OSP-0503-10	-
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Quick Ship Programs 5 day 5 day	Florida Product Approval (FLPA)	FL22703	_
	Quick Ship Programs	5 day	5 day

Accessories

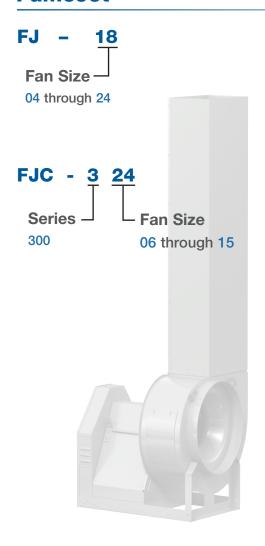


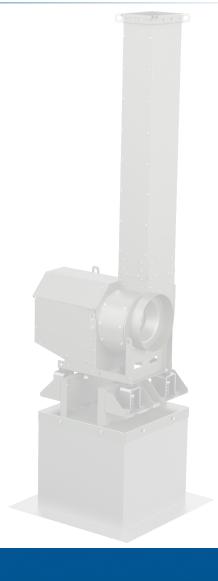
- 1 Access Door Bolted or hinged removable panel provides access for inspection or cleaning.
- 2 Inlet Flange Fan inlet is flanged for bolted connection to system ductwork.
- 3 Companion Inlet Flange For easy connection between inlet flange and system ductwork. Companion and inlet flange have matching bolt hole pattern.
- 4 Restrained Spring Isolators Both vertical and lateral movement restricted. Isolators are seismically rated to minimum 1.0 g, and sized for all components including stack.
- 5 Equipment Supports Designed for use on non-insulated flat roof decks and mounted directly to the deck structure. Available in galvanized steel.
- 6 Curb Cap Inlet Box (CCIB) Provides a quick transition from roof opening to fan inlet often used in locations with minimal roof deck space. Coated steel construction with fully welded seams and corners.
- Backdraft Damper Located in the curb cap inlet box, the gravity damper prevents airflow back into the building when the fan is not in operation.
- 8 Duct Drop Transition between building ductwork and inlet box opening. Coated and fully welded duct drop supplied with matching flange to inlet box and slip-fit end for easy field duct connection. Multiple lengths available for extending below roof deck if desired.
- 9 Roof Curb Model GPFHL is a straight sided, insulated roof curb with internal vertical supports designed for high loads. Roofing material is brought to the vertical surface and sealed to the flashing flange.
- Disconnect Switch NEMA-3R rated disconnect switches. Switches can be factory mounted or shipped loose for field installation.
- 11 Sure-Aire™ (FJ) Airflow measurement device (piezometric ring) with an accuracy within 3%. Unlike traditional flow probes mounted in the fan venturi, Sure-Aire does not create a system effect hindering fan performance. Optional Sure-Aire Monitor (ships loose) for reading the fan performance. Resulting data can be tied to the facility Building Automation System (BAS).
- 12 Variable Frequency Drive (VFD) Factory programmed for job specific conditions. Includes integral disconnect and NEMA-3R enclosure with multiple control options available.
 - Shaft Seal Available for operation at high temperatures or exhausting contaminated air. Shaft seal prevents contaminated exhaust from leaking into the surrounding area. (not shown)
 - Extended Lube Lines Conveniently located grease fittings mounted on the exterior of weatherhood or motor cover. Nylon or copper depending on airstream temperature. (not shown)



Benefits of the FumeJet® include single source responsibility, performance data that includes stack and accessory corrections, energy savings usage by elimination of system effects, and features to reduce the cost of installation.

FumeJet





Our Commitment

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

Product warranties can be found online at Greenheck.com, either on the specific product page or in the literature section of the website at Greenheck.com/Resources/Library/Literature.



















