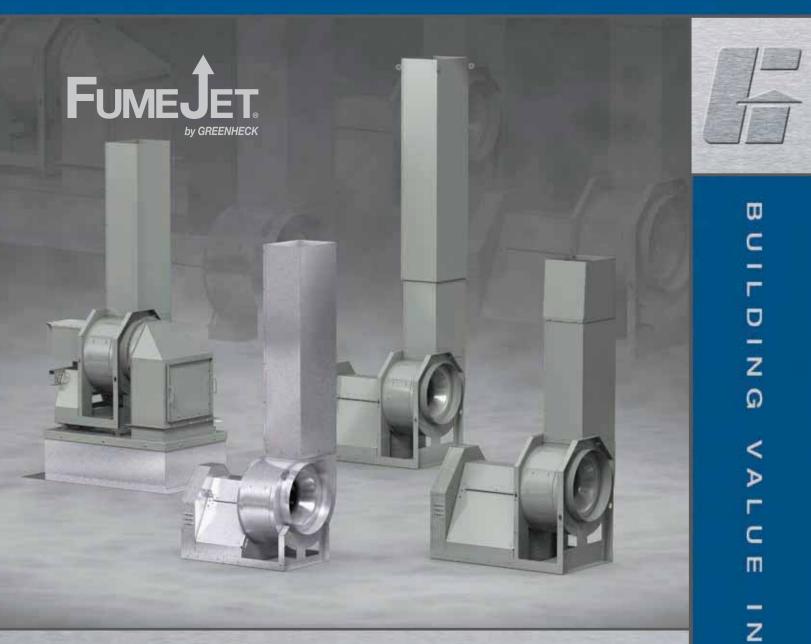
# FumeJet<sup>®</sup> Exhaust Systems Models FJC and FJI

• Pre-engineered, single source responsibility

• Lower cost, simplified installation





January **2019** 

AIR

# FUMEJET Exhaust Systems



Greenheck's FumeJet<sup>®</sup> 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.





FJC-300 belt drive with coated steel and straight stack

FJI direct drive with coated steel and fixed nozzle

- **FJC** Performance up to 5,000 cfm (2,360 l/s) and 4.5 in. wg (1,120 Pa)
- FJI 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	$\checkmark$	
Single source responsibility – Eliminating component misapplication, performance and fit-up issues due to field-fabricated or sourced components	~	
Designed to match application	$\checkmark$	$\checkmark$
Known performance corrections for all system components	$\checkmark$	
Wind loading capacity designed and factory tested to withstand a force of 34 PSF (equivalent to 115 mph or 185 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 or 15 ft. (3 or 4.6 m) heights available	~	
Corrosion Resistant Coating – All steel components are electrostatically powder coated with corrosion resistant Permatector <sup>™</sup> or Hi-Pro Polyester. Both protect against a wide spectrum of acids, alkalis and solvents	$\checkmark$	

## Eliminate Inefficient, Complicated and Unsafe Field Built-up Installations



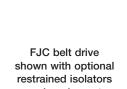
Field built systems can lead to complicated installations, unsafe exhaust locations, and even excess energy usage due to the creation of system effects. FumeJet pre-engineered exhaust systems include the necessary mounting accessories to simplify installation because equipment supports, isolators and 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**

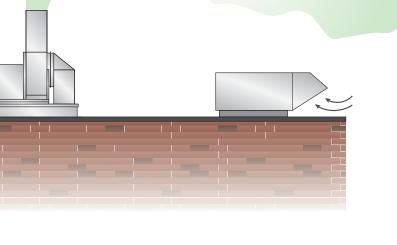
Fumes exhausted above working area for safe roof deck and over any MUA or air intakes to prevent reintrainment back into the building. Designed per ANSI Z9.2 standard for local exhaust systems, models FJC and FJI provide a compact footprint, complimentary accessories for quick and trouble free installation, and configurable mounting options to suit different building layouts.

FJI with mega stack option -115 mph windload rating without guy wires

GREENHECK Building Value in Air.



and equipment supports



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

#### **Commercial Facilities**

- Smoke
- Hospital / clinic
- Sterilization
- Gun ranges
- Pharmacy

#### **Industrial Facilities**

- Food packaging
- Welding
- Paint systems
- Waste water/odor
- Indoor horticulture

## **Spark-Resistant Construction**

Spark B	The <b>fan wheel</b> is constructed of a non-ferrous material (usually aluminum). A non-ferrous (aluminum) rub ring surrounds the fan shaft where it passes through the fan housing.
Spark C	The <b>inlet cone</b> is constructed of non-ferrous material (usually aluminum). A non-ferrous (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**

**Fan Options** 



Greenheck's FumeJet<sup>®</sup> 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.

# FJC-300



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

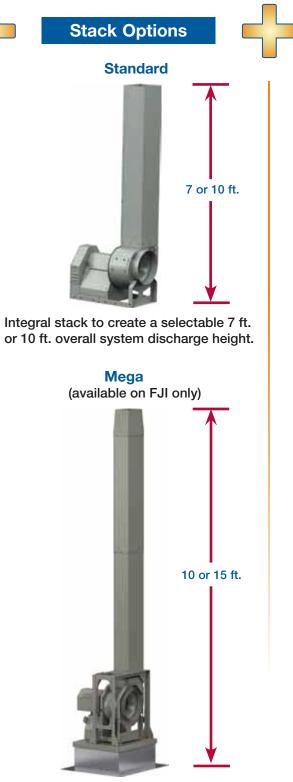
Performance up to 5,000 cfm (2,360 l/s) and 4.5 in. wg (1120 Pa)

FJI



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

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



Self-supported stack for up to 15 ft. overall discharge height, ideal for low flow applications requiring higher plume rise. Fan is completely isolated from stack.

## **VFD Speed Control Option**

Available Variable Frequency Drive (VFD) is preprogramed at the factory for job specific conditions allowing for seamless installation. VFD comes standard with a NEMA-3R enclosure and integral disconnect. Selectable with unit mounting bracket or as remote mounted.

Multiple control options are

Remote Speed Dial Temperature & Humidity Constant Pressure Constant CFM

**VOC Air Quality Sensor** 

available including:



4



### **Discharge Options**

#### **Straight Stack**

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



#### Fixed Nozzle

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



#### Adjustable Nozzle

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



#### No Loss Stack

A lower velocity stack with NO pressure drop that sheds rain water away from the fan housing.



#### Intake Options

#### **Horizontal Connection**



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.

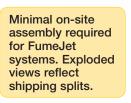
#### Vertical Connection Curb Cap Inlet Box



Positions the exhaust fan over the roof penetration. Compact installation minimizes roof deck space and leakage from multiple roof penetrations. Duct support provided to install duct drops in roof curb. Optional backdraft damper prevents airflow back into the building when fan is not in operation.

#### **Easy Installation**

#### FumeJet with restrained isolators and GESS equipment supports







FumeJet with curb cap inlet box and GPFHL roof curb





# Standard and Optional Construction



Housing TypeScroll HousingScroll HousingImpeller TypeBackward Inclined CentrifugalImpeller TypeBackward Inclined CentrifugalImpeller TypesGalvanized, Coated SteelSpark ResistanceNone, Spark B or CConstruction ClassN/AHousing ConstructionPermalock™Permalock™Permalock™ or WeldedDrain1 in. Drain HoleCoating (optional)Permatactor™ or Hi-Pro PolyesterPower Transmission SpecsDP, TEFCPower Transmission SpecsDP, TEFCArrangementsBelt Drive (arg. 10)Bearing Life (Hours)L <sub>10</sub> 80,000L <sub>10</sub> 80,000L <sub>10</sub> 80,000 or L <sub>10</sub> 20,000Shaft MaterialTurned & Polished SteelDischargeTurned & Polished SteelNozzleStatight, Fixed, Acjustable, No LossPressure (PS Max)5,000 crfm (250%)CFM Range (Min cfm)200 crfm (251%)CFM Range (Min cfm)5,000 crfm (2360 V/s)Factory Vibration Test (peak vibration, at fan rpm, filterion)9 in. wg (2,240 Pa)Arical Steel Control (Optional)Variable Frequency Drive (Factory Programmed)CertificationsVariable Frequency Driv	Housing & Impeller Specs	FJC	FJI
Impeller Sizes   6-15 Inch   7-24 Inch     Finish Types   Galvanized, Coated Steel   Coated Steel     Spark Resistance   None, Spark B or C   None, Spark B or C     Construction Class   N/A   0, I, II     Housing Construction   Permalock™M   Permalock™or Welded     Drain   1 in. Drain Hole   1 in. Threaded Drain Connection     Coating (optional)   Permatector™ or Hi-Pro Polyester   Permatector™ or Hi-Pro Polyester     Power Transmission Specs   ODP, TEFC   ODP, TEFC, EXP     Motor Enclosure   ODP, TEFC   ODP, TEFC, BX0     Arrangements   Belt Drive (arrg. 10)   Direct Drive (arrg. 4)     Bearing Life (Hours)   L1 <sub>0</sub> 80,000   L1 <sub>0</sub> 80,000 or L1 <sub>0</sub> 200,000     Shaft Bearings   Set screw   Concentric lock     Discharge   Tft. (2.1 m) – Standard   10 ft. (3 m) – Extended   10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – Mega     Nozele   No Loss   Nore   Sustem Height   200 cfm (95 l/s)   200 cfm (95 l/s)     CFM Range (Min cfm)   200 cfm (95 l/s)   18,000 cfm (8,500 l/s)   19,000 cfm (8,500 l/s)   Pressure (PS Max)   4.5 in. wg (1,120 Pa)   9 in. wg (2,240 Pa)   16 in/s (dir	Housing Type	Scroll Housing	Scroll Housing
Finish Types   Galvanized, Coated Steel   Coated Steel     Spark Resistance   None, Spark B or C   None, Spark B or C     Construction Class   N/A   0, 1, II     Housing Construction   Permalock™   Permalock™ or Welded     Drain   1 in. Drain Hole   1 in. Threaded Drain Connection     Coating (optional)   Permatector™ or Hi-Pro Polyester   Permatector™ or Hi-Pro Polyester     Power Transmission Specs   ODP, TEFC   ODP, TEFC, EXP     Motor Enclosure   ODP, TEFC   ODP, TEFC, EXP     Arrangements   Belt Drive (arrg. 10)   Bit (arrg. 10) or     Bearing Life (Hours)   L <sub>10</sub> 80,000   L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000     Shaft Bearings   Set screw   Concentric lock     Discharge   Turmed & Polished Steel   Turmed & Polished Steel     Nozel   Straight, Fixed, Adjustable, No Loss   No Loss     Performance Specs   Straight, Fixed, Adjustable, No Loss   No Loss     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   .08 in/s (direct)     Max Temp (Continuous)   400°F (204°C)   500°F (260°C)   <	Impeller Type	Backward Inclined Centrifugal	Backward Inclined Centrifugal
Spark ResistanceNone, Spark B or CNone, Spark B or CConstruction ClassN/A0, 1, IHousing ConstructionPermalock™Permalock™ or WeldedDrain1 in. Drain Hole1 in. Threaded Drain ConnectionCoating (optional)Permatector™ or Hi-Pro PolyesterPermatector™ or Hi-Pro PolyesterPower Transmission SpecsPermatector™ or Hi-Pro PolyesterMotor EnclosureODP, TEFCODP, TEFC, EXPBearing Life (Hours)L <sub>10</sub> 80,000L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000Shaft MaterialTurmed & Polished SteelUrmed & Polished SteelShaft MaterialTurmed & Polished SteelTrimed & Polished SteelSystem Height7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – ExtendedNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance Specs200 cfm (95 l/s)CFM Range (Min cfm)200 cfm (95 l/s)18,000 cfm (8,500 l/s)CFM Range (Max cfm)5,000 cfm (2,360 l/s)18,000 cfm (8,500 l/s)Practory Vibration Test (peak vibration, at fan rpm, filter in) Max Temp (Continuous)None.05 in/s (belt) or .05 in/s (belt) or .05 in/s (belt) or .15 in/s (belt) or <br< td=""><td>Impeller Sizes</td><td>6-15 Inch</td><td>7-24 Inch</td></br<>	Impeller Sizes	6-15 Inch	7-24 Inch
Construction ClassN/A0, I, IIHousing ConstructionPermalockTMPermalockTM or WeldedDrain1 in. Drain Hole1 in. Threaded Drain ConnectionCoating (optional)PermatectorTM or Hi-Pro PolyesterPermatectorTM or Hi-Pro PolyesterPower Transmission SpecsPermatectorTM or Hi-Pro PolyesterMotor EnclosureODP, TEFCODP, TEFC, EXPArrangementsBeit Drive (arg. 10)Belt (arg. 10) or Direct Drive (arg. 4)Bearing Life (Hours)L <sub>10</sub> 80,000L <sub>10</sub> 80,000 - L <sub>10</sub> 200,000Shaft MaterialTumed & Polished SteelTumed & Polished SteelShaft MaterialSet screwConcentric lockDischargeT ft. (2.1 m) - Standard 10 ft. (3 m) - Extended 10 ft. (3 m) - Extended, Mega 15 ft. (4.6 m) - MegaNozzleStreight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance Specs200 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.08 in/s (direct)AmcA Sound and Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)SeismicOSP-0503-10-Fiorida Product Approval (KDA)F122703- <td>Finish Types</td> <td>Galvanized, Coated Steel</td> <td>Coated Steel</td>	Finish Types	Galvanized, Coated Steel	Coated Steel
Housing ConstructionPermalock™Permalock™ or WeldedDrain1 in. Drain Hole1 in. Threaded Drain ConnectionCoating (optional)Permatector™ or Hi-Pro PolyesterPermaterix™ or Hi-Pro PolyesterPower Transmission SpecsODP, TEFCODP, TEFC, EXPMotor EnclosureODP, TEFCODP, TEFC, EXPArrangementsBelt Drive (arrg. 10)Belt (arrg. 10) or Direct Drive (arrg. 4)Bearing Life (Hours)L <sub>10</sub> 80,000L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000Shaft MaterialTurned & Polished SteelTurned & Polished SteelShaft BearingsSet screwConcentric lockDischarge7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – ExtendedNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance SpecsC200 cfm (95 l/s)CFM Range (Min cfm)200 cfm (95 l/s)200 cfm (85 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 (2,40 Pa)Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsVariable Frequency Drive (Factory Programmed)CertificationsCertificationsVariable Frequency Drive (Factory Programmed)Sizes 7-24UL/CUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)115 mph (185 Km/h)Sizes Solo 3-10Miami-Dade Notice Of Appr	Spark Resistance	None, Spark B or C	None, Spark B or C
Drain1 in. Drain Hole1 in. Threaded Drain ConnectionCoating (optional)Permatector™ or Hi-Pro PolyesterPermatector™ or Hi-Pro PolyesterPower Transmission SpecsODP, TEFCODP, TEFC, EXPMotor EnclosureODP, TEFCODP, TEFC, EXPBearing Life (Hours)L <sub>10</sub> 80,000L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000Shaft MaterialTurned & Polished SteelTurned & Polished SteelShaft MaterialTurned & Polished SteelTurned & Polished SteelShaft Material7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – MegaNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance Specs200 cfm (95 l/s)200 cfm (95 l/s)CFM Range (Min cfm)200 cfm (95 l/s)200 cfm (95 l/s)GFM Range (Max cfm)5,000 cfm (95 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)Aratory Vibration Test (peak vibration, at fan rpm, filter in)None.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)Variable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)CertificationsAMCA Air PerformanceSizes 6-8-AMCA Air PerformanceSizes 6-8-AMCA Air PerformanceSizes 12-15Sizes 7-24UL/UL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)High Wind RatingSore.030-1	Construction Class	N/A	0, I, II
Coating (optional)     Permatector™ or Hi-Pro Polyester     Permatector™ or Hi-Pro Polyester       Power Transmission Specs     U       Motor Enclosure     ODP, TEFC     ODP, TEFC, EXP       Arrangements     Belt Drive (arrg. 10)     Belt (arrg. 10) or Direct Drive (arrg. 4)       Bearing Life (Hours)     L <sub>10</sub> 80,000     L <sub>10</sub> 800,000 or L <sub>10</sub> 200,000       Shaft Bearings     Set screw     Concentric lock       Discharge     7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended     7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – Mega       Nozzle     Straight, Fixed, Adjustable, Nozle     Straight, Fixed, Adjustable, No Loss     Straight, Fixed, Adjustable, Nos       Performance Specs     U     200 cfm (95 l/s)     200 cfm (95 l/s)       CFM Range (Min 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     .05 in/s (bit) or .08 in/s (direct)       MCA Air Performance     Sizes 6-3     -       AMCA Air Performance     Sizes 12-15     Sizes 7-24       UL/cUL 705 Listed Power Ventilator     Optional     Opti	Housing Construction	Permalock™	Permalock <sup>™</sup> or Welded
Power Transmission Specs     ODP, TEFC     ODP, TEFC, EXP       Arrangements     Belt Drive (arrg. 10)     Belt (arrg. 10) or Direct Drive (arrg. 4)       Bearing Life (Hours)     L <sub>10</sub> 80,000     L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000       Shaft Material     Turned & Polished Steel     Turned & Polished Steel       Shaft Bearings     Set screw     Concentric lock       Discharge     7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – Mega     7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – Mega       Nozzle     Straight, Fixed, Adjustable, No Loss     Straight, Fixed, Adjustable, No Loss     Straight, Fixed, Adjustable, No Loss       Performance Specs     200 cfm (95 l/s)     200 cfm (95 l/s)     CFM Range (Min cfm)     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)     None     .08 in/s (direct)     .08 in/s (direct)     .08 in/s (direct)     Straight, Fixed, Adjustable, No Loss     .09 F (204°C)     500°F (260°C)     Control     .00°F (204°C)     500°F (260°C)     .00°F (204°C)     500°F (260°C)     .00°F (204°C)     .09°F (260°C)     .00°F (260°C)     .00°F (204°C)     500°F (260°C)	Drain	1 in. Drain Hole	1 in. Threaded Drain Connection
Motor EnclosureODP, TEFCODP, TEFC, EXPArrangementsBelt Drive (arrg. 10)Belt (arrg. 10) or Direct Drive (arrg. 4)Bearing Life (Hours)L <sub>10</sub> 80,000L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000Shaft MaterialTurmed & Polished SteelTurmed & Polished SteelShaft MaterialTurmed & Polished SteelTurmed & Polished SteelShaft BearingsSet screwConcentric lockDischargeTft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – ExtendedNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance SpecsVCFM 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)Practory Vibration Test (peak vibration, at fan rpm, filter in) Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsVariable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)CertificationsVariable Frequency Drive (Factory Programmed)5izes 12-15MCA A ir PerformanceSizes 6-8-AMCA A ir PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703- <td>Coating (optional)</td> <td>Permatector™ or Hi-Pro Polyester</td> <td>Permatector™ or Hi-Pro Polyester</td>	Coating (optional)	Permatector™ or Hi-Pro Polyester	Permatector™ or Hi-Pro Polyester
ArrangementsBelt Drive (arrg. 10)Belt (arrg. 10) or Direct Drive (arrg. 4)Bearing Life (Hours)L <sub>10</sub> 80,000L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000Shaft BearingsSet screwConcentric lockDischargeTurned & Polished SteelTurned & Polished SteelSystem Height7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – MegaNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance SpecsCFM 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) Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsSpeed Control (Optional)Sizes 6-8-AMCA Air PerformanceSizes 6-8-AMCA Air PerformanceSizes 6-8-AMCA Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Motice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Power Transmission Specs		
ArrangementsBert Drive (arrg. 10)Direct Drive (arrg. 4)Bearing Life (Hours)L <sub>10</sub> 80,000L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000Shaft MaterialTurned & Polished SteelTurned & Polished SteelShaft BearingsSet screwConcentric lockDischargeTft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – MegaNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance Specs200 cfm (95 l/s)200 cfm (95 l/s)CFM Range (Min cfm)200 cfm (95 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.08 in/s (direct)Max Temp (Continuous)Variable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)CertificationsU/cull .705 Listed Power VentilatorOptional-AMCA Air Performance Defend Control (Optional)Sizes 6-8-AMCA Air Performance LU/cull .705 Listed Power VentilatorOptional0ptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)-California OSHPD SeismicOSP-0503-10Miami-Dade Notice Of Approval (NOA)17-037.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Motor Enclosure	ODP, TEFC	ODP, TEFC, EXP
Shaft MaterialTurned & Polished SteelTurned & Polished SteelShaft BearingsSet screwConcentric lockDischargeTft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – MegaNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance SpecsCFM 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.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsUrable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)AMCA Air PerformanceSizes 6-8-AMCA Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptional0ptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Arrangements	Belt Drive (arrg. 10)	
Shaft BearingsSet screwConcentric lockDischargeSystem Height7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – Mega 15 ft. (4.6 m) – MegaNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance SpecsCFM 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.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)CertificationsVariable Frequency Drive (Factory Programmed)AMCA Air PerformanceSizes 6-8–AMCA Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10–Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)–Florida Product Approval (KDA)FL22703–	Bearing Life (Hours)	L <sub>10</sub> 80,000	L <sub>10</sub> 80,000 or L <sub>10</sub> 200,000
Discharge7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – ExtendedNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance SpecsCFM 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.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)CertificationsVariable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)CertificationsSizes 6-8–AMCA Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power Ventilator High Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10–Miami-Dade Miami-Dade17-0307.01 (Without stack/nozzle)–Florida Product Approval (NOA)FL22703–	Shaft Material	Turned & Polished Steel	Turned & Polished Steel
System Height7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended7 ft. (2.1 m) – Standard 10 ft. (3 m) – Extended, Mega 15 ft. (4.6 m) – MegaNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance SpecsCFM 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.15 in/s (betl) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500° (260°C)ControlsSpeed Control (Optional)Variable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)CertificationsAMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Shaft Bearings	Set screw	Concentric lock
System Height7 ft. (2,1 m) - Standard 10 ft. (3 m) - Extended10 ft. (3 m) - Extended, Mega 15 ft. (4.6 m) - MegaNozzleStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossStraight, Fixed, Adjustable, No LossPerformance SpecsCFM 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.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)CertificationsSpeed Control (Optional)Variable Frequency Drive (Factory Programmed)Certifications-AMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power Ventilator OptionalOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Discharge		
No LossNo LossNo LossPerformance SpecsCFM 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.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)CentrolsCertificationsAMCA Air PerformanceAMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD Seismic0SP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	System Height		10 ft. (3 m) – Extended, Mega
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.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsVariable Frequency Drive (Factory Programmed)AMCA Air PerformanceAMCA Sound and Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Nozzle		
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.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsCertificationsAMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Performance Specs		
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.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsCertificationsAMCA Air PerformanceSizes 6-8AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD Seismic0SP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	CFM Range (Min cfm)	200 cfm (95 l/s)	200 cfm (95 l/s)
Factory Vibration Test (peak vibration, at fan rpm, filter in)None.15 in/s (belt) or .08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsControlsSpeed Control (Optional)Variable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)CertificationsAMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	CFM Range (Max cfm)	5,000 cfm (2,360 l/s)	18,000 cfm (8,500 l/s)
None.08 in/s (direct)Max Temp (Continuous)400°F (204°C)500°F (260°C)ControlsSpeed Control (Optional)Variable Frequency Drive (Factory Programmed)CertificationsAMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Pressure (Ps Max)	4.5 in. wg (1,120 Pa)	9 in. wg (2,240 Pa)
ControlsSpeed Control (Optional)Variable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)CertificationsAMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	-	None	
Speed Control (Optional)Variable Frequency Drive (Factory Programmed)Variable Frequency Drive (Factory Programmed)CertificationsAMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Max Temp (Continuous)	400°F (204°C)	500°F (260°C)
Speed Control (Optional)(Factory Programmed)(Factory Programmed)CertificationsAMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Controls		
AMCA Air PerformanceSizes 6-8-AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Speed Control (Optional)		
AMCA Sound and Air PerformanceSizes 12-15Sizes 7-24UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	Certifications		
UL/cUL 705 Listed Power VentilatorOptionalOptionalHigh Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	AMCA Air Performance	Sizes 6-8	-
High Wind Rating115 mph (185 Km/h)115 mph (185 Km/h)California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	AMCA Sound and Air Performance	Sizes 12-15	Sizes 7-24
California OSHPD SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	UL/cUL 705 Listed Power Ventilator	Optional	Optional
SeismicOSP-0503-10-Miami-Dade Notice Of Approval (NOA)17-0307.01 (Without stack/nozzle)-Florida Product Approval (FLPA)FL22703-	High Wind Rating	115 mph (185 Km/h)	115 mph (185 Km/h)
Notice Of Approval (NOA)(Without stack/nozzle)Florida Product Approval (FLPA)FL22703		OSP-0503-10	-
			-
Quick Ship Programs 5 day 10 day	Florida Product Approval (FLPA)	FL22703	-
	Quick Ship Programs	5 day	10 day

## Accessories



- 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

- 3 Companion Inlet Flange For easy connection between inlet flange and system ductwork. Companion and inlet flange have matching bolt hole pattern.
- 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.
- Equipment Supports Model GESS 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 roof curb, the gravity damper prevents airflow back into the building when the fan is not in operation.
- B 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.
- Sure-Aire™ (FJI) 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 Motor Starter Starter components options include: physical interface, overload protection, disconnect, magnetic contactor, NEMA-1 or NEMA-3R steel enclosures and pre-engineered easy system integration.

6

- 13 Fan Monitoring System (ships loose) The FMS package includes a preprogrammed monitor along with a wide selection of commonly applied sensors to monitor the overall equipment health, plan maintenance, and monitor energy use.
- Variable Frequency Drive (VFD) Factory programmed for job specific conditions. Includes integral disconnect and NEMA-3R enclosure with multiple control options available. Optional mounting bracket accessory.

Shaft Seal – Felt or neoprene shaft seal with rub ring available for operation at high temperatures or exhausting contaminated air. 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)

**A** 

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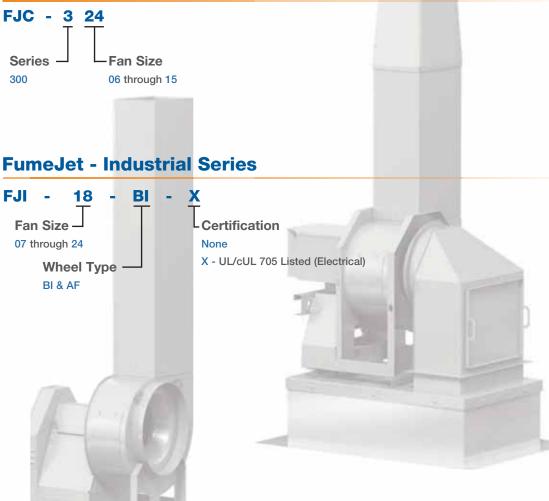
7

14

Benefits of the FumeJet<sup>®</sup> 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. Model Codes

## **FumeJet - Commercial Series**









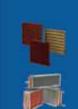
## **Our Commitment**

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.









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