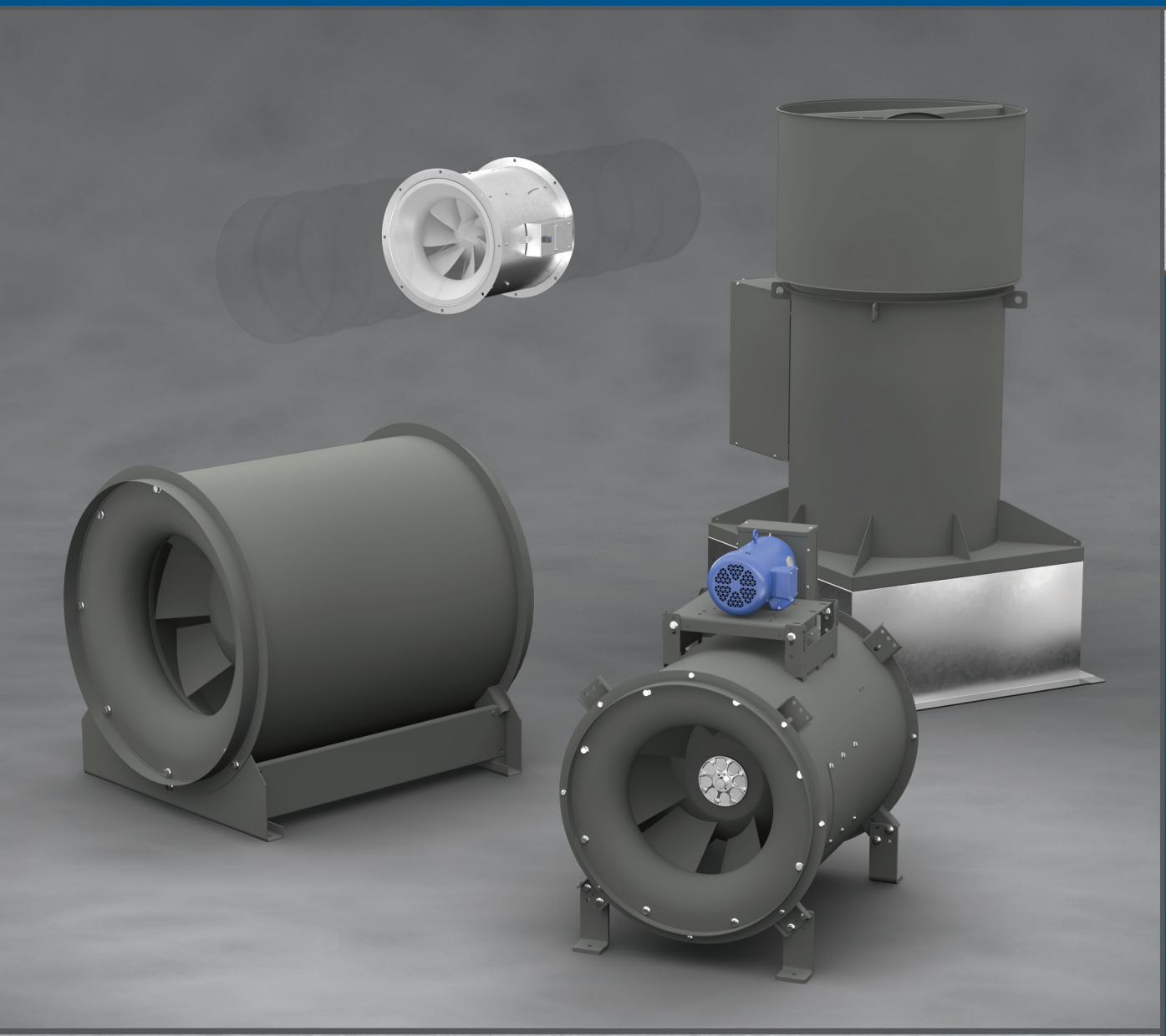
Mixed Flow Inline Fans

Model QEI-M

Quiet, Efficient Tubular Inline



GREENHECK
Building Value in Air.

BUILDING VALUE IN AIR.

Sept
2023

Mixed Flow Fans

Mixed flow inline fans can be used for a wide variety of commercial, institutional, and industrial applications, handling everything from clean, grease-laden or high-temperature air for supply, exhaust, or return air. Greenheck's unique wheel design excels in applications where low sound is critical. In addition, Greenheck's mixed flow fans are more efficient than comparably sized tubular centrifugal fans, reducing the required motor horsepower and lowering operating costs.

High Efficiency	Operating peak total efficiencies of 76% and FEI levels exceeding 1.0, providing exceptional value.
Low Operating Cost	High-efficiency operation lowers operational costs.
Low Sound	Blade design lowers overall sound levels and removes pure tones.
Low Maintenance	Belt drive models have air handling quality bearings for superior operation and long life, while direct drive models remove service needs for belts and fan shaft bearings.
All Weather	Good for indoor and outdoor applications.
Variety of Configurations	Available as inline ducted, roof-mounted upblast, horizontal or vertical and in multiple levels of construction, fitting fan to application.
Applications	Good for supply or exhaust applications, clean or dirty air, or potential hazardous exhaust in difficult environments.

Certifications

Greenheck India Pvt. Ltd. certifies the model QEI-M fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Certified data may be found in Greenheck's Computer Aided Product Selection program (CAPS®).

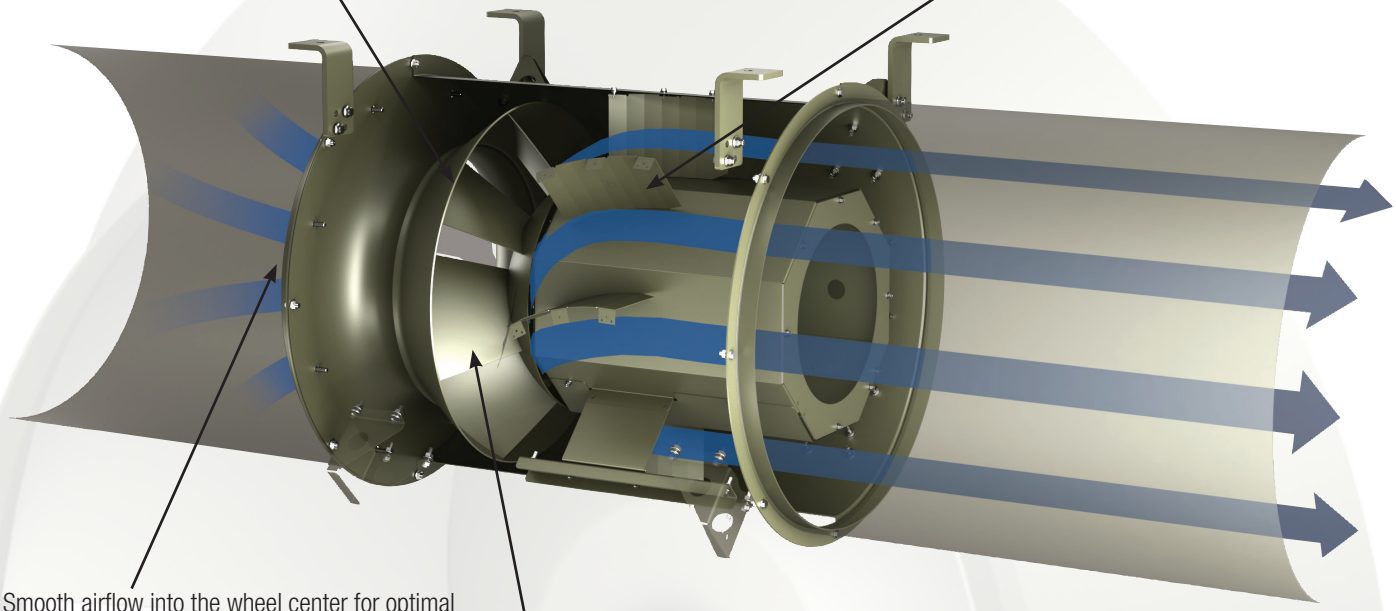
FEI - Fan Energy Index

UL/cUL Listed Power Ventilator
UL/cUL File E40001
UL/cUL Power Ventilators for Restaurant Exhaust Appliances
UL/cUL File MH11745
UL/cUL Power Ventilators for Smoke Control Systems
UL/cUL File MH17511

Aerodynamically designed

Angled and contoured blade profiles for the highest efficiency and quiet operation.

Straightening vanes convert rotational airflow into axial flow resulting in static pressure rise and energy savings.



Smooth airflow into the wheel center for optimal performance in unducted or ducted applications.

High efficiency wheel design means lower fan speeds with low sound levels.

No abrupt changes in airflow direction through the wheel and housing improves efficiency.

Arr. 9
Belt drive

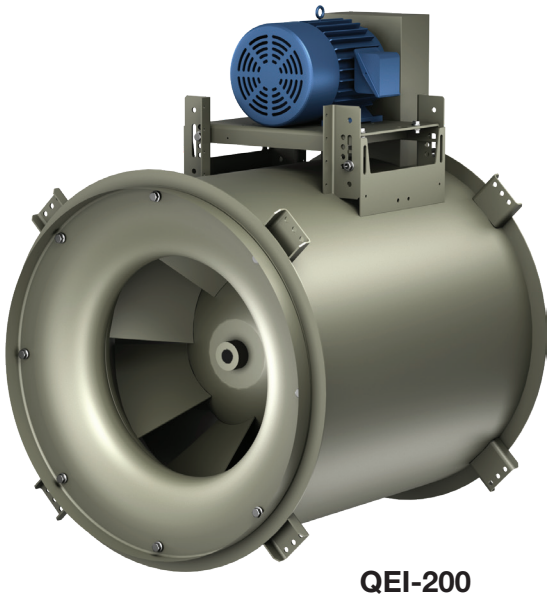
Belt Drive Benefits

- Adjustable performance with sheave change
- Broad range of application environments
- Accessible motor
- Long bearing life

QEI-M Features

	QEI – M Belt Drive
	Series 200
Volume Range	1,100 - 32,900 cfm (1,870 - 195,390 m³/hr)
Static Pressure	Up to 5 in. wg (1,245 Pa)
Airflow	Supply and Exhaust
Construction	Welded
Mounting	Mounting Brackets
Environment	Indoor / Outdoor
Assembly Vibration Tested*	0.2 in./sec

** = Peak, filter-in as measured at the fan RPM*



QEI-200

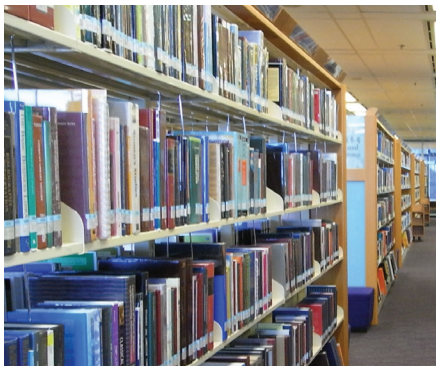
Advantages

- On-site installation flexibility for motor orientations
- All weather suitable for indoor or outdoor applications
- Reduced sound levels and low operating costs
- High efficiency and low maintenance
- Warranty (one to five year options)

Typical Applications

Return, exhaust or supply air in office buildings, hospitals, schools and data centers.

Low sound air movement in libraries, concert halls and dormitories.



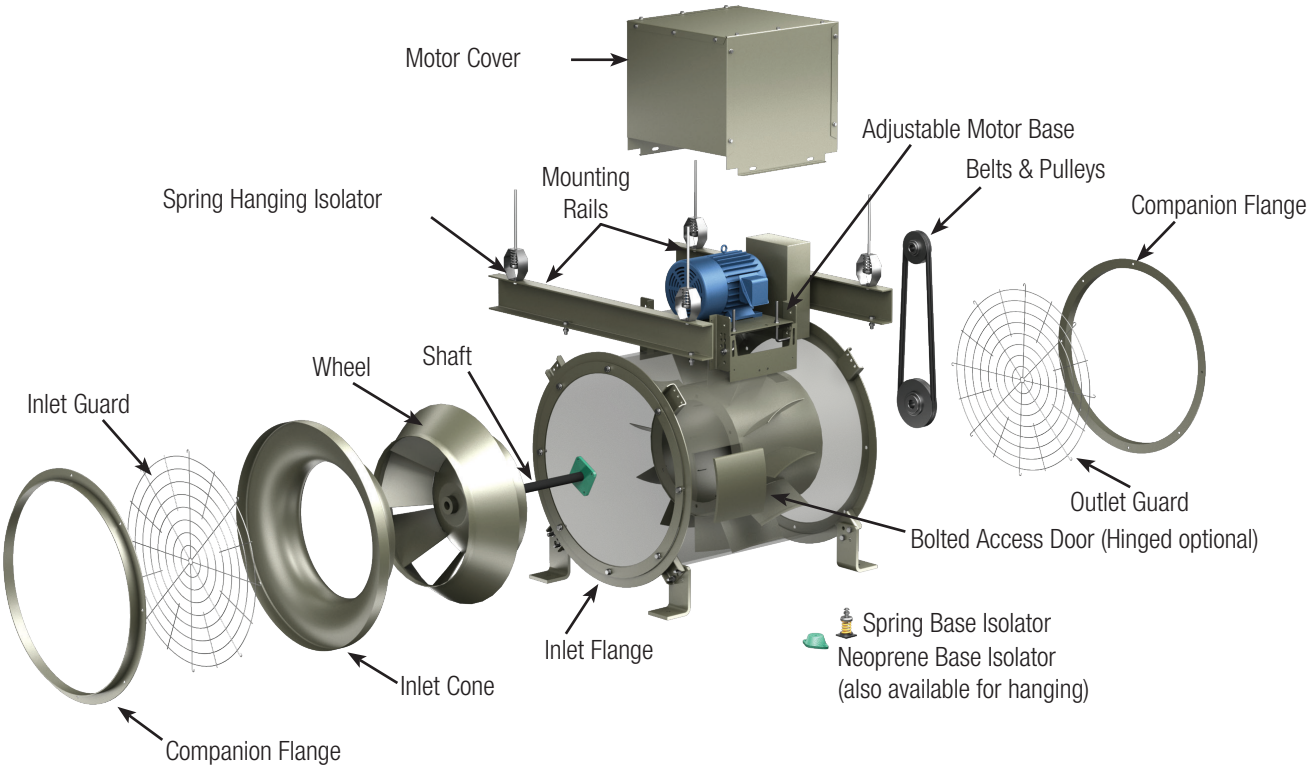
Industrial process exhaust in manufacturing facilities, paint systems, and utility plants.

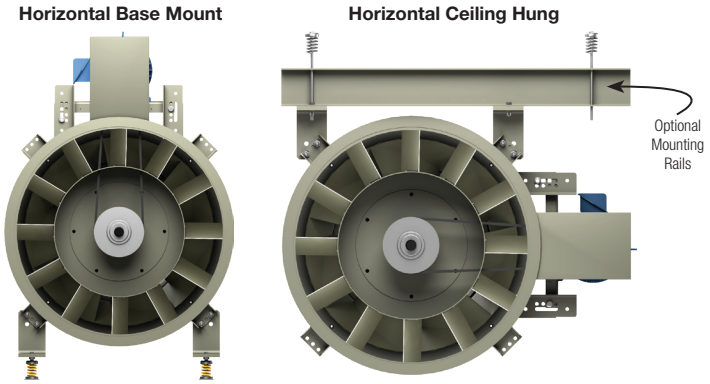
Life safety applications including emergency smoke exhaust and stairwell pressurization, restaurant kitchen grease, hazardous or flammable airstreams.

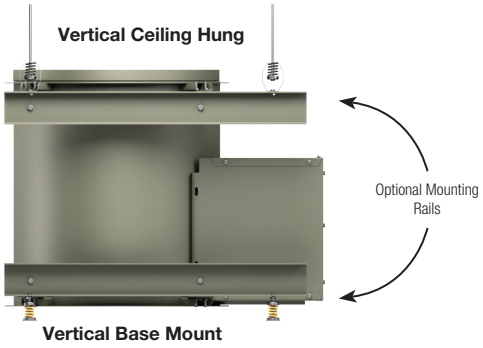
✓ = *Optional*

		QEI-M 200
Housing Finish	Greenheck's Hi-Pro Polyester coating is an electrostatically applied thermosetting polyester urethane. Hi-Pro Polyester coatings provide excellent corrosion characteristics for general indoor and outdoor applications.	Std.
Extended Lube Lines	Lubrication lines with grease fittings mounted to the fan exterior allow bearings (QEI), if required, lubrication without accessing internal drive components.	Std.
Adjustable Motor Bases	Motor bases are welded to the fan housing and include adjustment screws for belt tensioning.	Std.
Motor Cover	Shields the motor components from dust, dirt, and moisture for indoor or outdoor installations. Also, serves as a personnel guard and meets OSHA standards.	✓
Belt Guard	A totally enclosed belt guard, per OSHA standards, provides protection from rotating pulleys and belts.	✓
Bolted Access Door	Access door for cleaning or visual inspection of the wheel.	Std.
Flanges	Inlet and outlet flanges with prepunched holes welded to the housing, provide an easy means for bolted connection to ductwork. Bolt-on companion flanges also available.	✓
Inlet and Outlet Guards	Removable inlet and outlet guards provide protection for personnel and equipment in ducted or non-ducted installations.	✓
Belt Tube	A totally enclosed belt tube isolates the belts and drives from the airstream.	✓
Mounting Rails	Mounting rails are recommended for vertically mounted fans or horizontal mounting when the motor is to be located in the B, C, D, F, G or H position.	✓
Isolators	Base mount and hanging isolators are available in either neoprene or spring mounts.	✓

Belt Drive Exploded View







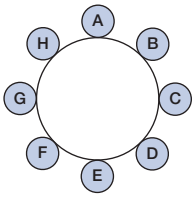
Series 200 (Sizes 12-27)

Universal Mounting

Brackets on belt or direct drive models are used for either horizontal or vertical mounting. For ease of installation, motor or junction box positions can be changed in the field for better access to components, solve fit issues, or avoid electrical trays and piping.

Mounting rails are suggested for any vertical installation and horizontal installations with motor positions C or G (3 or 9 o'clock). Motor positions as viewed from the discharge end.

Motor Mounting Positions



Motor Positions As Viewed From Outlet End

(Sizes 30-33)

Horizontal Mounting

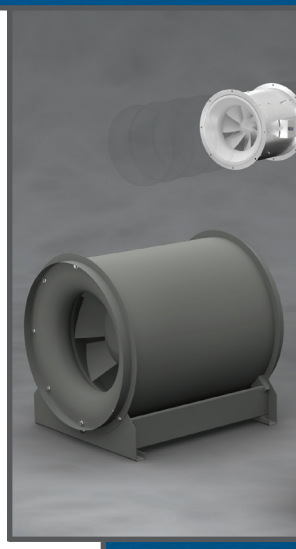
Horizontal mounting configurations, base mount or ceiling hung, are provided with an identical support. The mounting configuration can be changed between base mount or ceiling hung in the field.

Mounting rails are recommended for installations B, C, D, F, G or H positions. Motor positions as viewed from the discharge end.

Model Number Nomenclature

QEI - M20 – 5.5kW

- QEI: Fan Model, Belt Drive
- M20: Metric Unit
- 20: Fan Size, 12-33
- 5.5kW: Motor kW



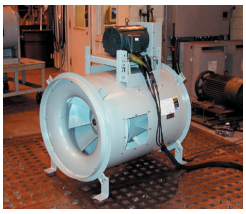
Value Added Features

Software Selection Tools

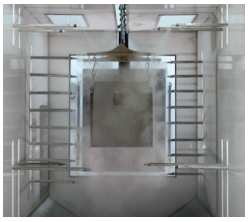
- *CAPS®*
- *eCAPS®*

Quality Assurance Testing

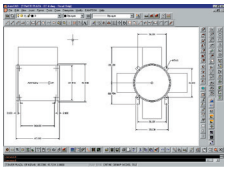
- *Wheel balance*
- *Motor amps*
- *Assembly vibration*



Electrostatic Powder Coatings



AutoCAD® and 3D Revit® Models



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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