

Stratos SILENT ECO Series

Mixed-flow fan series



Stratos

Product family
name

**SILENT
ECO**

Model
Variant

150

Approximate
Duct Diameter
(mm)

The Stratos SILENT ECO series are mixed-flow inline duct fans designed for high static pressure ventilation applications requiring quiet and energy-efficient operation. The acoustically insulated housing consists of a high-quality polymer casing filled with 2 in. mineral wool insulation to reduce radiated sound and improve thermal performance. Engineered for residential, light commercial, and mixed-use applications, it delivers dependable performance in both supply and exhaust configurations where noise control is a priority.

Features

- High-efficiency, dual-speed, AC motor with thermal overload protection
- Precision-molded mixed-flow impeller for stable airflow and high static pressure performance
- Acoustically insulated housing with 2 in. mineral wool insulation for quiet operation
- Compact inline design for flexible installation in tight mechanical spaces
- Long-life ball bearings rated for 40,000+ hours of operation
- Ready-to-mount bracket for fast installation
- Sealed terminal box for airtight electrical connections
- IPX4-rated moisture-resistant construction
- Suitable for residential and commercial applications
- Maintenance-free design with no belts, pulleys, or filters

Specifications (@ high speed)

- | | |
|---------------------------|---------------------------------|
| • Airflow @ 0.2 in. wg. | – 142–284 CFM (67–134 L/s) |
| • Voltage/Phase | – 120/1 |
| • Duct connection | – 4–6 in. (102–152 mm.) round |
| • Power Consumption | – 31–77 W |
| • Current draw | – 0.25–0.61 A |
| • Maximum static pressure | – 0.7–0.98 in. wg. (174–244 Pa) |
| • Maximum air temperature | – 104°F (40°C) |
| • Fan impeller speed | – 2,685–3,026 RPM |
| • IP rating | – IPX4 |
| • Weight | – 9–11 lbs (4.1–5.0 kg) |

Product Numbers

SILENT ECO 100/125 part #: 573248

SILENT ECO 150 part #: 573249

Requirements and standards

Designed for installation in accordance with applicable local mechanical and electrical codes.

Fans and motor

Utilizes a high-efficiency, dual-speed, AC capacitor motor engineered for reliable performance in high-demand ventilation applications. Dual-speed configuration allows the unit to be wired for either high or low speed operation to suit system requirements. The motor incorporates thermal overload protection to safeguard against overheating and is equipped with permanently lubricated ball bearings rated for more than 40,000 hours of operation. The motor is factory-matched to a precision-balanced mixed-flow impeller to ensure stable airflow delivery, reduced turbulence, and consistent pressure performance across the operating range. The motor and impeller assembly is dynamically balanced to promote smooth, vibration-free operation.

Housing

Constructed from durable polymer material and incorporates 2 in. mineral wool insulation to provide acoustic and thermal benefits. Internal perforated surfaces and optimized airflow pathways help reduce sound transmission while maintaining efficient airflow performance. A sealed external terminal box is provided for electrical connection.

Controls and Operation

Designed for continuous or intermittent ventilation service and may be operated using compatible external speed controls. Operation is achieved through a two-speed motor configuration, allowing the installer to select high or low speed during installation by wiring configuration. This provides flexibility for balancing airflow and acoustic performance based on system requirements. The mixed-flow impeller maintains stable airflow performance across varying system static pressures while minimizing turbulence and sound generation.

Installation

Suitable for horizontal or vertical installation in ducted ventilation systems and may be mounted in any orientation. The central body rotates 180° to simplify wiring access and installation in confined or awkward spaces. A factory-installed mounting bracket is included to ensure fast and secure attachment. The design allows for installation between 12 in. on-center joists. A fully removable dual-latch access cover simplifies service and maintenance access.

Duct Connections

Designed for connection to 4/5/6 in. (depending on model) round ductwork for supply or exhaust ventilation applications.

Options

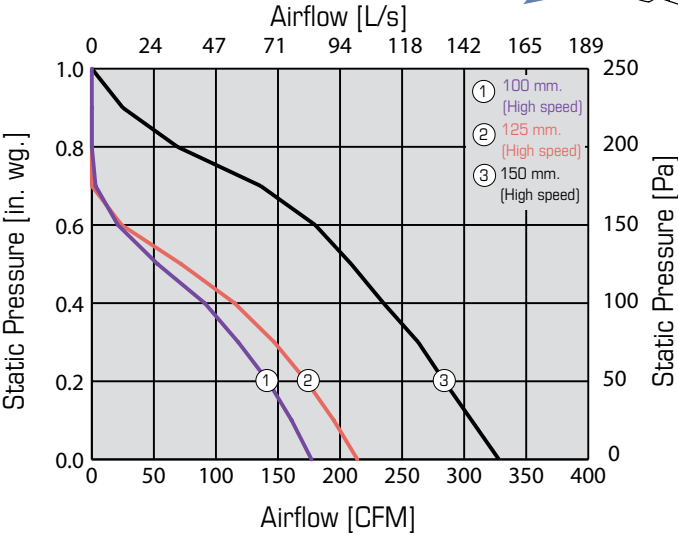
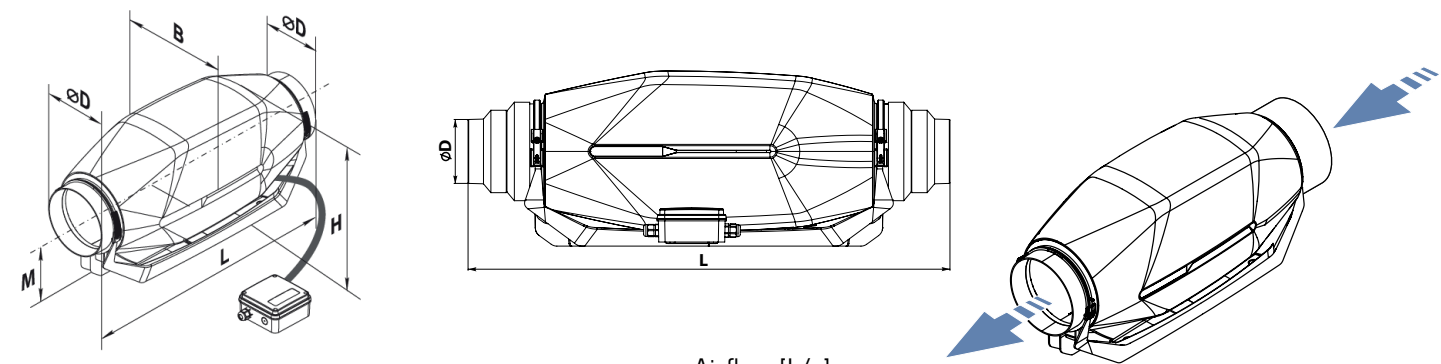
Speed controllers, backdraft dampers, silencers, and duct filters where system design requires additional airflow control or acoustic treatment. Not suitable for use with solid-state speed controls.

Limited Warranty

3-year limited warranty.

Dimensions & Airflow

Model	ΦD		B		H		L		M	
	in	mm	in	mm	in	mm	in	mm	in	mm
SILENT ECO 100	3 15/16	100	8 1/8	207	8 13/16	224	22 13/16	579	4 13/16	123
SILENT ECO 125	4 13/16	123	8 1/8	207	8 13/16	224	19 3/4	502	4 13/16	123
SILENT ECO 150	5 13/16	148	10	253	10 1/2	267	23 7/8	606	5 13/16	148



Performance

Model	Duct Diameter	Speed	RPM	Rated Power	Max Amp	CFM												MAX Ps
			min ⁻¹	W	A	0.0 in. wg.	0.1 in. wg.	0.2 in. wg.	0.3 in. wg.	0.4 in. wg.	0.5 in. wg.	0.6 in. wg.	0.7 in. wg.	0.8 in. wg.	0.9 in. wg.	1.0 in. wg.		
SILENT ECO 100 ²	4"	high	3016	32	0.25	177	161	142	118	91	53	21	3	-	-	-	0.72	
		low	2446	25	0.21	140	122	99	73	38	9	-	-	-	-	-	0.54	
SILENT ECO 125 ²	5"	high	3026	31	0.25	214	195	173	147	115	72	24	-	-	-	-	0.70	
		low	2493	24	0.21	173	148	120	92	45	5	-	-	-	-	-	0.52	
SILENT ECO 150 ²	6"	high	2685	77	0.61	328	306	284	263	235	209	180	136	69	25	-	0.98	
		low	1773	57	0.46	217	186	152	120	87	62	32	-	-	-	-	0.69	

Speed (RPM) shown in nominal. Performance is based on actual speed of test.
Performance ratings do not include the effects of appurtenances (accessories).
²cETLus safety certified.

Contacts

Submitted by:	Date:
Quantity:	Model:
Comments:	Project #:
Location:	
Architect:	
Engineer:	Contractor:

Distributed by:

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