

Systemair K 125M Sileo

Systemair K 125M Sileo Duct Fan

Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Systemair K 125M Sileo duct fan. The K-series fans are designed for efficient air handling in duct systems, featuring robust construction and reliable performance. Please read this manual thoroughly before installation and operation to ensure safe and correct use of the product.

2. SAFETY INFORMATION

Always adhere to local electrical codes and safety regulations during installation and operation. Disconnect power before performing any maintenance or installation procedures.

- The fan is equipped with built-in thermal contacts with automatic reset to protect the motor from overheating.
- The airtight, folded galvanized steel housing (leak rate according to tightness class C, EN 12237:2003) allows for installation in damp rooms and outdoor areas.
- The motor has a protection class of IP44.
- Ensure proper grounding.
- Do not operate the fan if any part is damaged.

3. PRODUCT FEATURES

The Systemair K 125M Sileo duct fan offers the following key features:

- **Speed-Controllable:** Can be controlled using a stepless thyristor or a 5-step transformer.
- **Integrated Thermal Protection:** Built-in thermal contacts with automatic reset for motor safety.
- **Flexible Installation:** Installation is possible in any mounting position.
- **Outdoor and Damp Room Use:** Suitable for outdoor and damp environments due to its airtight housing and IP44 motor protection.
- **Reliable and Maintenance-Free:** Designed for dependable operation with minimal maintenance requirements.
- **Efficient Design:** Features backward-curved impeller blades and external rotor motors for optimal performance.

- **Easy Mounting:** Includes a mounting bracket for straightforward installation and removal.

4. TECHNICAL SPECIFICATIONS

Parameter	Value
Model	K 125M Sileo
Voltage	230V
Frequency	50Hz
Phase	1~
Electrical Power Consumption (P1)	28.2W
Current	0.164A
Max. Volume Flow	187m³/h
Speed	2491 1/min
Weight	2.3kg
Max. Medium Temperature	70°C
Max. Medium Temperature (Speed Controlled)	70°C
Sound Pressure Level at 3m (20m³ Sabin)	34.2dB(A)
Insulation Class	B
Protection Class, Motor	IP44
Connection Diameter	125mm
Energy Class (Basic Unit)	F
Energy Class (Basic Unit Option)	C
ErP Ready	ErP 2018
Manufacturer	Systemair
ASIN	B07ZP91RP2
Manufacturer Reference	103573

Max. Wirkungsgrad										
Betriebspunkt Daten										
▲ Betriebspunkt - Luftmenge	93,4 m³/h									
▲ gelieferter statischer Druck	97 Pa									
▲ Aufnahmeleistung	27,6 W									
Drehzahl	2529 1/min									
Strom	0,161 A									
SFP	1,06 kW/m³/s									
Spannung	230 V									
Schalleistungspegel		63	125	250	500	1k	2k	4k	8k	Tot
Einlass	dB(A)	45	53	57	58	52	48	32	24	62
Austritt	dB(A)	44	51	55	57	51	47	35	24	60
Gehäuseabstrahlung	dB(A)	17	26	30	36	35	31	20	15	40

Figure 4.1: Maximum Efficiency and Operating Data Table. This table provides detailed performance metrics including airflow, static pressure, power consumption, and sound levels at various frequencies.

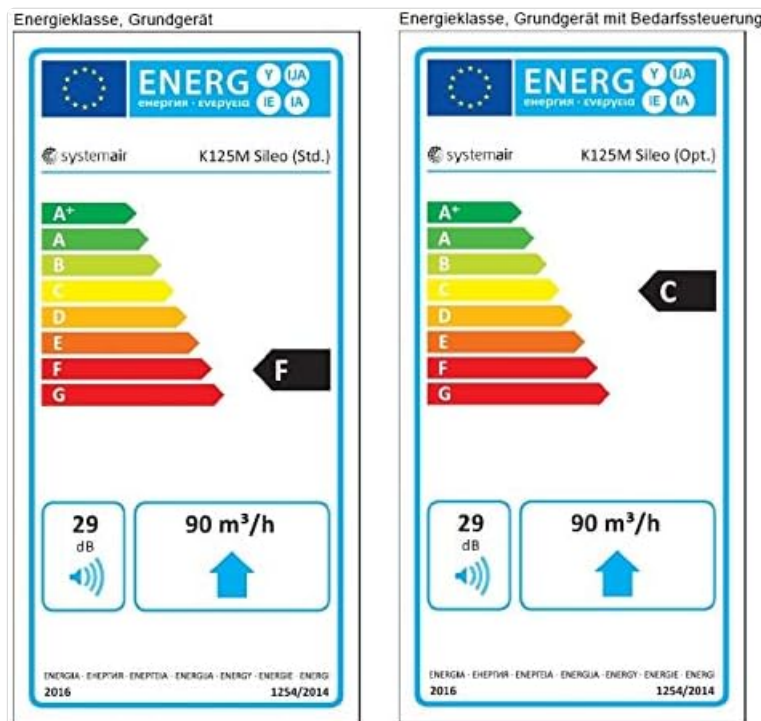


Figure 4.2: Energy Efficiency Labels. Displays the energy class ratings for the basic unit (F) and an optional configuration (C), along with sound power level (29 dB) and airflow (90 m³/h).

5. INSTALLATION AND SETUP

The K-series fans are designed for easy duct mounting. Ensure the installation location is suitable and allows for proper airflow and access for maintenance.



Figure 5.1: Systemair K 125M Sileo Duct Fan. This image shows the main product view of the cylindrical duct fan with its integrated control box.

5.1 Mounting

- The fan comes with a mounting bracket to facilitate easy installation and removal.
- All K-fans feature duct connections at least 25 mm long, compliant with EN 1506:1997, for secure attachment to ductwork.
- For vibration-free connection to the duct system, consider using FK connecting sleeves (available as accessories).
- The fan can be installed in any mounting position (horizontal, vertical, etc.).

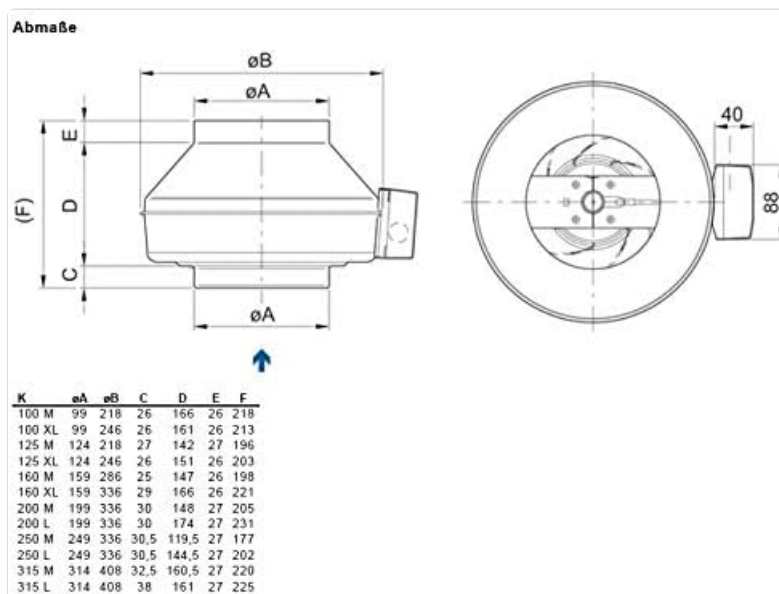


Figure 5.2: Dimensions Diagram. This technical drawing illustrates the various dimensions (A, B, C, D, E, F) of the fan, crucial for planning installation space and duct connections.

5.2 Electrical Connection

Connect the fan to a 230V, 50Hz, single-phase power supply. Ensure all wiring is done by a qualified electrician and complies with local regulations. The fan is equipped with an external rotor motor.

6. OPERATION

The Systemair K 125M Sileo fan is designed for continuous operation within its specified parameters.

6.1 Speed Control

The fan's speed can be controlled to adjust airflow as needed. This can be achieved using:

- A stepless thyristor controller.
- A 5-step transformer.

Refer to the performance diagrams to understand the fan's behavior at different operating points.

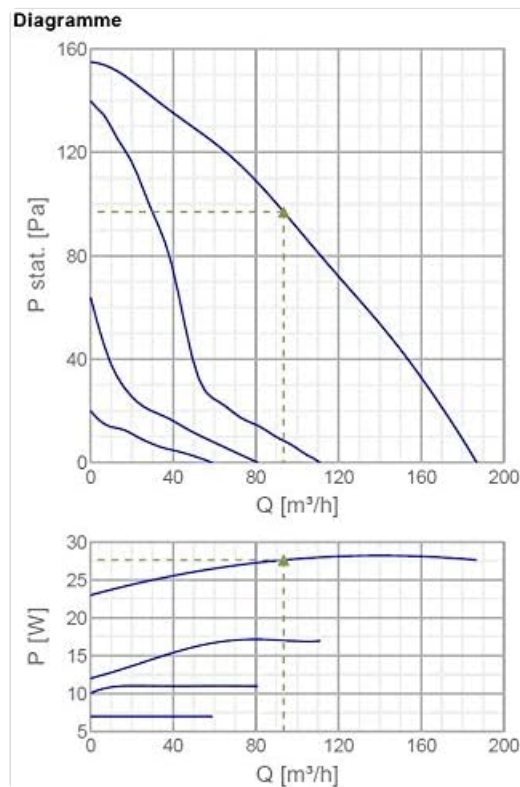


Figure 6.1: Performance Diagrams. These graphs illustrate the fan's static pressure (P stat.) and power consumption (P) in relation to the volume flow (Q), providing insight into its operational characteristics.

7. MAINTENANCE

The Systemair K 125M Sileo fan is designed to be reliable and largely maintenance-free. However, periodic checks can help ensure optimal performance and longevity.

- **Cleaning:** Periodically inspect the impeller and housing for dust and debris accumulation. Clean gently with a soft brush or cloth. Ensure power is disconnected before cleaning.
- **Inspection:** Check electrical connections for tightness and signs of wear.
- **Bearings:** The fan's motor bearings are typically sealed and do not require lubrication.

8. TROUBLESHOOTING

If you encounter issues with your Systemair K 125M Sileo fan, consider the following common troubleshooting steps:

- **Fan not starting:** Check the power supply, circuit breaker, and electrical connections. Ensure the thermal contacts have not tripped (they reset automatically).
- **Reduced airflow:** Inspect ducts for obstructions or leaks. Check if the fan speed controller is set

correctly.

- **Unusual noise or vibration:** Ensure the fan is securely mounted. Check for any foreign objects in the impeller or housing. Verify that the FK connecting sleeves are properly installed if used.
- **Overheating:** Ensure adequate ventilation around the fan. Check for obstructions that might restrict airflow. The built-in thermal contacts should protect the motor.

If problems persist after performing these checks, contact qualified service personnel or Systemair support.

9. WARRANTY AND SUPPORT

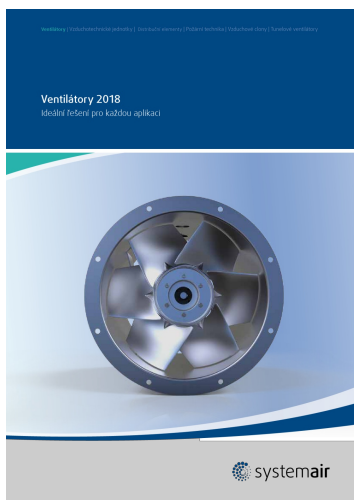
For warranty information, please refer to the terms and conditions provided at the time of purchase or contact your Systemair dealer. Keep your proof of purchase for warranty claims.

For technical support, spare parts, or service inquiries, please contact your local Systemair representative or the seller from whom you purchased the product. Provide the model number (K 125M Sileo) and serial number (if applicable) when seeking support.

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Model: K 125M Sileo | ASIN: B07ZP91RP2

Documents - Systemair – K 125M Sileo

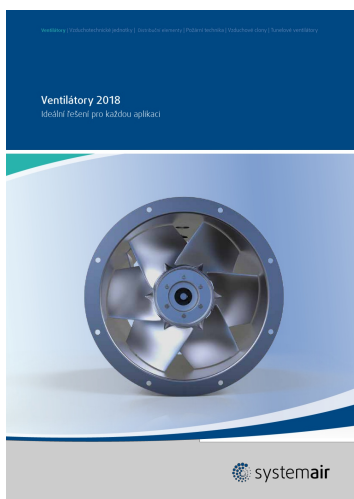


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