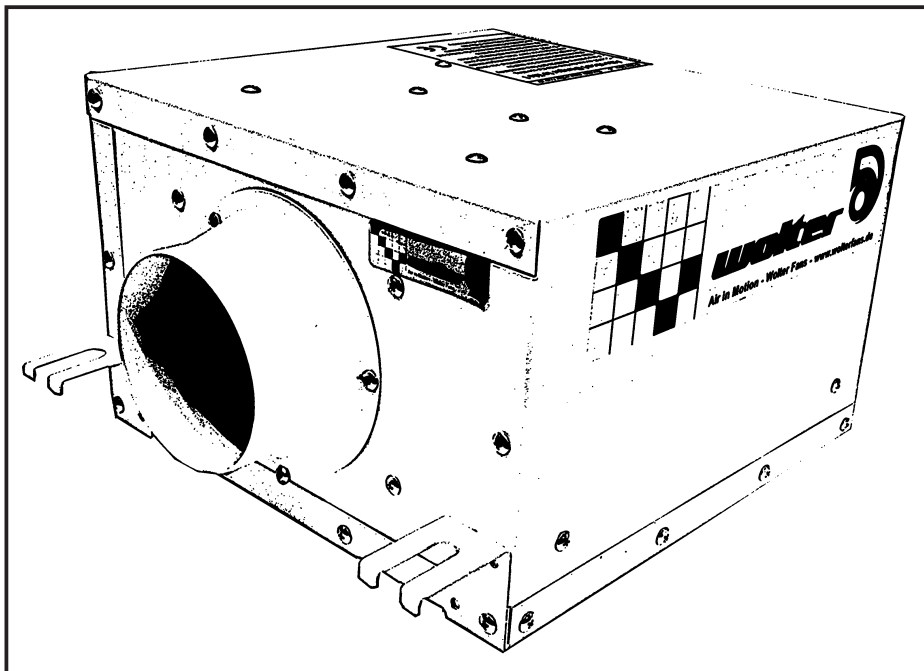


Operating Instructions for

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Low Noise Silent Box - SDX Series





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1 General safety notes

This operation instruction contains important technical advice and information about safety. Therefore please pay attention to this operation instruction before unpacking, installation or any other work is undertaken on this fan!

1.1 Safety warnings in this manual

The following symbols are used in these operating instructions. These symbols are, above all, intended to draw the reader's attention to the text contained in the adjacent safety note.



Warning

This symbol indicates that dangers exist which are hazardous to life and health



Caution

Damage and also fatal injury can result if these notes are disregarded.

1.2 Basic safety measures

Wolter fans are, at the moment of delivery, manufactured to the current level of technology.

Extensive material, function and quality checks assure them of a high level of usefulness and long service life! Nevertheless, these machines can be dangerous if they are improperly used by untrained personnel or are used in a non-stipulated manner.



This symbol indicates the item "Provoking Attentions"



This symbol indicates the item "Prohibited" to do!



This symbol indicates the "COMPULSORY" item that must be followed without failure.

2 Operating Instruction

- › Reconstruction of the internal wiring is prohibited.



May cause unexpected accident.

- › Any obstacle should not be placed near the inlet and outlet openings.



May cause injury by hitting or sucking of obstacle.

- › When gas leakage occurs, open the window and door to make air circulate, neither turn on nor turn off the product.



May cause explosion.

- › Any power source other than the rated voltage and frequency can not be used.



May cause fire or damage the unit.

- › Neither unauthorized inspection, modification, repair nor disassembly are allowed.



May cause unexpected accident.

- › Eyes should not be faced to the outlet opening (specially when the fan starts up).



Any flying substance may get into the eyes.

- › A statement to the effect that when the product is no longer to be used, it must not be left in the place but removed, to prevent it from possible falling.



May cause unexpected accident.

- › This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

- › All installation and maintenance shall be done by qualified persons.



Unqualified construction may cause unexpected accidents

- › Disconnect power supply before inspection.



May cause injury or electric shocks.

- › Immediately stop the operation in case of any abnormality (noise, vibration, smell), and request for repair.



May cause unexpected accident.

- › The protective tools, gloves or helmet, should be worn while inspection or maintenance.



May cause person injury.

- › The fan may rotate caused by the wind inside the duct, even power supply is switched off. Please make sure the fan has stopped actually before inspection.



May cause injury if being caught into the rotating section.

- › Be careful not to drop the inspection panel or parts removed from the unit when inspection.



May cause person injury.

3 Installation Instruction

- › Secured upon the strengthened foundations for installation.

Be sure to take reinforcement measures if required for sufficient installation strength.



Improper installation may cause accident because of the falling of the product.

- › Beware of C.G. and weight when moving.



Hang only as the unit is normally assembled, or else it may drop and cause injury.

- › Weight of duct should not load on the unit.



May cause injury due to malfunctions or dropping.

- › Avoid a location with high temperatures.



Trouble may be caused and the motor life may be shortened.

- › Avoid a location with too much oil fume.

- › Install a fan protection device like a motor overload breaker in the wiring.

- › Connect the duct avoiding the following cases.



- 1) Sharp bending angle;
- 2) Bended more than once;
- 3) Reduced diameter at the connection;
- 4) Bending near the discharge port and suction port.

- › During installation or maintenance, the power cord should be lower than the outlet of terminal box.



May cause water flow along the power cord into wiring box or scrape the power cord.

- › Specified number and size of the bolts should be used for hanging the unit and they must be tightened.



May cause injury due to insufficient strength.

- › Electrical installations should be done according to the wiring diagram and local electrical wiring rules of fixed wiring.



Unqualified wiring may cause electric shock or fire.

- › Grounding should be connected.



May cause electric shocks.

- › Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appliances.



May cause back-flow gases.

- › Do not install the fan where the humidity is high (85% or higher) such as near a swimming pool, public hot spring bathing area or outdoors.

- › There should be an all poles switch with min.3mm contact gap in the fixed wiring.

- › The installation height of Cabinet Fan shall be more than 2.3m above the floor.



Prevent accident

- › The motor and frame should not touch any object.



May cause vibration and noise.

Caution:

1. When ventilating a room that use combustion equipment with a chimney, provide a suction port large enough. The size of the suction port should be decided by the instruction of the combustion equipment. (Exhaust gas may reverse into the room, which may cause carbon monoxide poisoning.)
2. For an exhaust duct to outdoor, attach a pipe hood to the end and keep at least a 1/100 slant downward. (To prevent rain or frozen water entering.)
3. Heat insulation should be taken if there is dewfall outside of the adapter and frame when indoor heating in winter.

1. Before installation

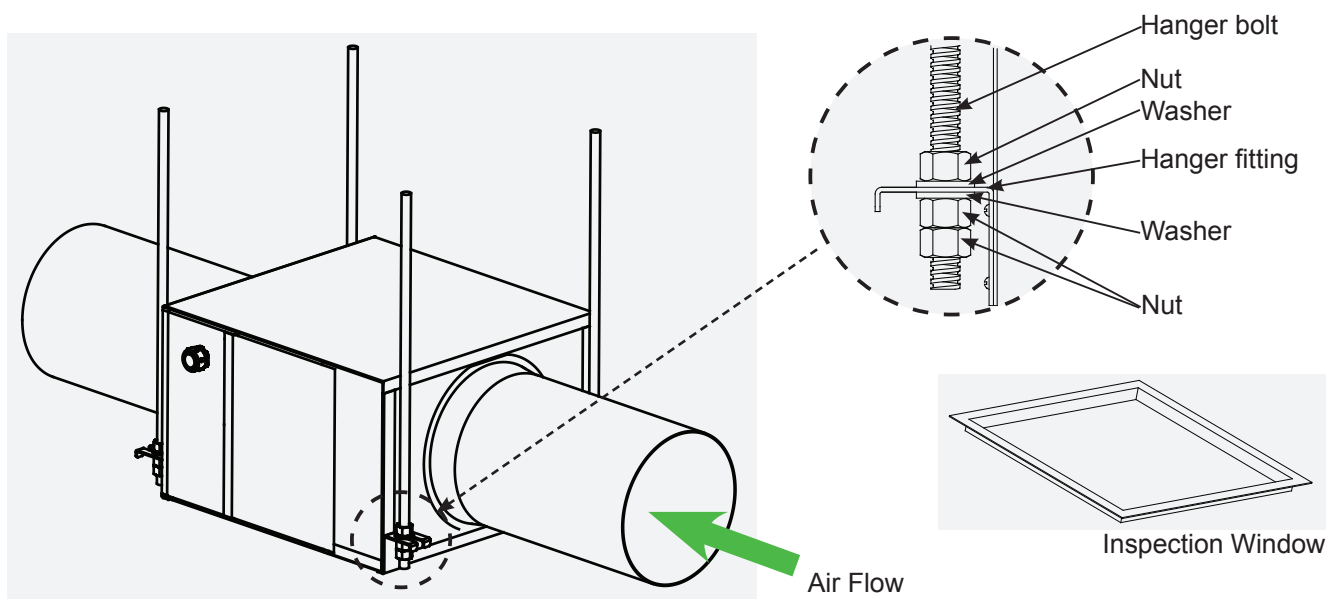
Check the following:

- 1) is there any breakage or deformation?
- 2) check the power source of product before installation
- 3) to avoid insect intrusion, please purchase a separately sold insect filter unit from the market. (The filter unit should be bought by customer and must be cleaned periodically to prevent clogging with dirt and dust. Furthermore, the filter will make pressure losing and it may reduce the air volume.)

2. Installation method

To hang the fan, be sure to attach firmly with hanger bolts, washers and nuts. (Which should be M8~M10 and be supplied by the customer); Install the main body horizontally.

Vibration cushion rubber set (supplied by the customer) can be used if in special condition for vibration requirement and it must can support the weight of the product.



The structure of the ceiling and the suspending set for hanging the product must support more than 5 times weight of the product.

Install the exterior duct with a slightly declining slope toward outer side. (1/100 ~ 1/50)

Be sure to provide an square inspection window of 45 cm or more.

Connect the circular duct to the adapter using noncombustible sailcloth.

Heat insulation should be taken if there is dewfall outside of the duct and frame.

INSTALLATION INSTRUCTION

3. Wiring Connecting

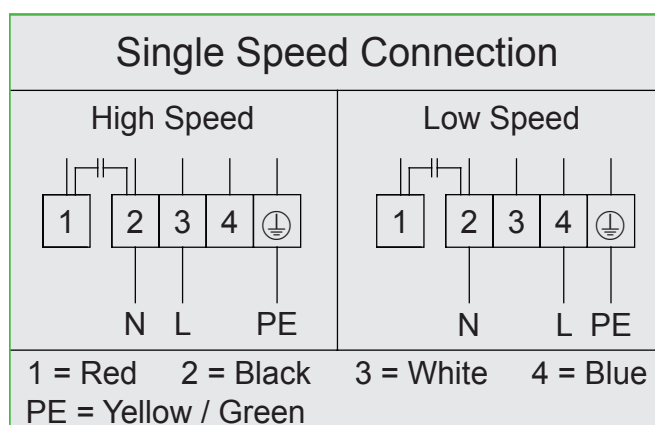
Subcontract an electrician for wiring.

Work in accordance with the Electrical Equipment Engineering Standard and the domestic wiring rule specified by the power company.

Carry out grounding work.

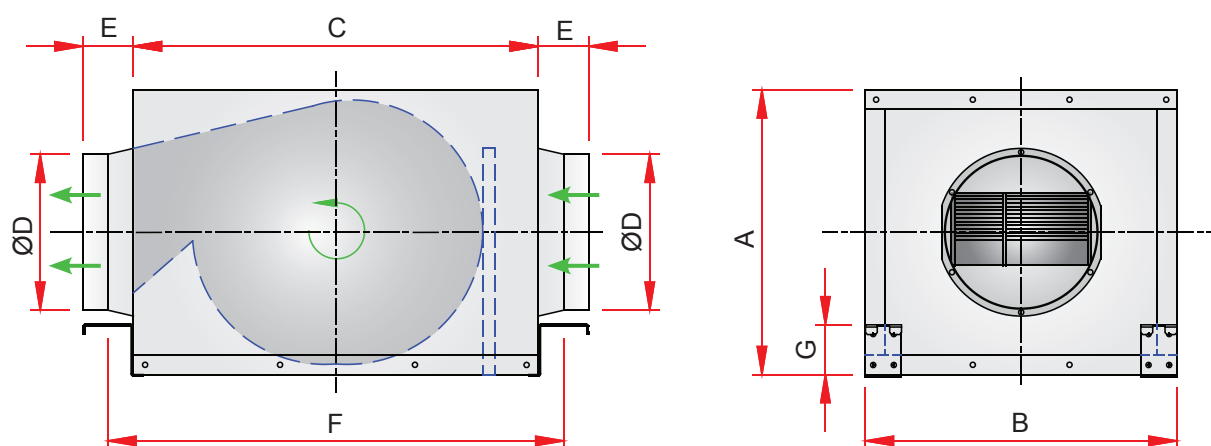
Connect wires according to the following diagram.

Protective thermostat fuses are installed inside the motor. Once the fuses break after excessive temperature rise due to abnormal usage, the motor will not turn.



After connecting the wiring, install the terminal cover with screws

4 Dimension



Model	A	B	C	D	E	F	G	Duct Size
SDX 100	183	291	292	99	52	336	51	Ø100
SDX 150	205	291	302	149	61	345	51	Ø150
SDX 160	231	317	339	159	61	383	51	Ø160
SDX 200	252	378	399	199	72	442	51	Ø200

Note: 1, All dimensions in mm;

2, We reserve the right to alter measurements without notice in case of technical improvements.

5 Maintenance and Inspection

All maintenance, inspection, parts replacement and repair shall be done by service man.

Maintenance and inspection

- ▶ For long-term and safe use of the fan, inspection and cleaning of the fan approximately once a year is required. Maintenance and inspection by a specialized subcontractor is required for prevention of accidents due to damaged parts deriving from aging and for normal performance.
- ▶ Please pay attention that don't pull the wiring during service, maintenance and cleaning.

6 Trouble Shooting Guide

Problem	Cause	Elimination
Poor foundation	- Excessive noise - Excessive vibration	Reinforce the foundation
Fault installation	- Excessive noise - Excessive vibration	Re-adjust the installation
Low voltage	- Insufficient air flow	Check power source
Contact between rotary and stationary parts	- Motor too hot - Excessive noise - Excessive vibration	Inspect and adjust
Sucked in objects / Adhere dust	- Motor too hot - Excessive noise - Excessive vibration	Inspect and clean
Faulty ducting	- Excessive noise - Excessive vibration - Insufficient air flow	Inspect and adjust
Incorrect wiring	- Run abnormally	Change wiring

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