

GIA-VENT001

IMPORTANT NOTICE

Please read the Operating Manual carefully before attempting to install or service the air exhaust fan! **Manufacturer shall not be liable for any damage resulting from incorrect operation, non-intended use or unauthorized repair or modifications of the product.**

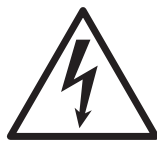
The Operating Manual and the installation instructions contained in it are an essential part of the product equipment. The Operating Manual specifies important technical information and instructions for the operating safety of the fan. Carefully read the installation instructions in the Operating Manual. Keep the Operating Manual available for future reference.

Warnings

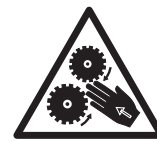
The following safety symbols show important safety information. Follow all safety regulations and the safety symbols shown in the Operating Manual to avoid injury and hazards.



Danger!



Electrocution hazard:
high voltage!



Caution
– rotating elements!

Safety precautions:

- This product can be used by children at least 8 years old, by people with impaired physical and/or mental abilities, and by people without any experience in or understanding of the operation of the product, if supervised or instructed by a competent adult in the safe use of the product so that they understand the relevant operating risks. This product is not a toy and children should not play with it. Children should not be allowed to clean or maintain the product without supervision of an adult.
- The fan is intended for permanent installation and connection with the building electrical system. The building electrical system connected to the

fan must be capable of breaking live voltage contact on all switching poles to fully isolate the fan from power during Category III overvoltage conditions, in accordance to applicable electrical engineering regulations.

- The ventilator is designed for installation at a substantial height, i.e. 2.3 m above the floor. The air exhaust fan shall only be installed in a position and an orientation specified in the Operating Manual, given the necessary entry of the power cable into the fan housing.
- Before servicing the fan, isolate it from the mains voltage with the circuit breaker. Secure the circuit breaker against inadvertent operation.
- The fan installation design must prevent reverse flow of flue gas into the room from open flue gas exhaust ducts and appliances operated with open flames.
- Never attempt to modify or alter the fan without authorization.
- Before installing the fan, verify the load bearing capacity of the installation substructure. Improper installation fastening may result in damage or failure of the fan and hazards to the people nearby.



The air exhaust fan can be hazardous when operated against its intended use or installed by unqualified personnel.

Application and operating conditions

- The air exhaust fan is intended for handling indoor air of normal quality or with a low dust content (with a particle size $< 10 \mu\text{m}$) and of low aggressiveness and humidity. The air exhaust fan is intended for operation in temperate climate conditions and within the performance limits specified in the product catalogue.
- The air exhaust fan may be operated only in a permanent indoor installation and with its power supply line concealed.
- The maximum temperature of the medium handled by the air exhaust fan and the maximum ambient temperature are $+40^{\circ}\text{C}$.
- The air exhaust fan is an IPX4 and protection class II device. The air exhaust fan can be installed in indoor moisture Zone 2, in accordance with PN-IEC 60364-7-701, provided that the following requirements from the air exhaust fan manufacturer are complied with:
 - 1 - the correct wall-mounting position is maintained with a proper seal of the power supply line in the grommet (see Section "Installation")
 - 2 - The air exhaust duct secures the air exhaust fan from direct exposure to water per IPX4 and direct access to live and/or rotating parts, including the fan rotor in motion; or the air exhaust duct is at least 800 mm mm long and installed with special tools which will be required to access the air exhaust fan for servicing.
- The fan must be operated according to its intended use and within the performance limits specified on the nameplate.

- **Connect the air exhaust fan to the building mains (electrical system) with the power cable: NYM-O 3x1.5 mm² (H07V-K 3x1.5 mm²) with maximum outer diameter 7,5 mm.**
- Do not use the air exhaust fan to handle the air with the following content:
 - viscous contaminants prone to deposition in the fan,
 - corrosive contaminants which may degrade the fan,
 - flammable contaminants, including gas, vapours, mists or particulates which may form explosive mixtures with air.
- The devices equipped with ball bearings are designed for a minimum operating life of 30,000 hours in S1 duty cycle at the maximum power output and the maximum ambient temperature.
- The control system must prevent extremely frequent power cycling.

Transport and storage

- Keep the fans in their original packaging in a dry, sheltered room.
- The transport and storage ambient temperature limits are -20 °C to +40 °C.
- Protect against impact and shocks. Transport the fan in its original packaging.
- If the storage time exceeds 1 year, the motor bearings of the fan must be tested by turning the fan rotor by hand before installation. The fan rotor must run smoothly.
- Dispose of the fan at the end of its operating life strictly in accordance with environmental protection and waste management laws.
- Should it occur, damage caused by improper transport, handling, storage or commissioning will be demonstrated and is not on warranty.

ACCESSORIES

This air exhaust time is equipped with stop delay timer.

The stop delay time can be set with a potentiometer knob on the electronic module of the stop delay timer. The minimum stop delay time is set at 3 min. with the potentiometer knob rotated counter-clockwise to stop. Turn the potentiometer knob clockwise to set a longer stop delay time accordingly. The maximum stop delay time setting is 30 min. The stop delay time is adjusted in infinite increments. The stop delay time is counted down from the time the air exhaust fan senses the indoor lights are off or turning the separate on/off switch off to which the fan is connected.

INSTALLATION



The fan shall only be installed, connected to electrical mains and commissioned for use by qualified personnel in accordance with applicable laws!

Installation process

- Precise where the fan will be installed.
- Prepare the power cord. Use **cord 3x 1,5 mm² width maximum outer diameter of 7,5mm.**
- **NOTE: Before starting work, make sure that the power cord is not live.**
- Measure and drill the holes for the fan and for the ø6 mm wall bolt plugs included with the product.
- Remove the front clip-on frame (2) of the fan.
- Remove the controller's cover (1) which is secured with the screws (6).
- Run the power cable in double insulation through the grommet (4). Enough of the power cable must enter the fan to facilitate connection of the cores to the power input terminals.

Before fastening the fan to the installation substructure: remove all foreign objects from the inside of the fan; check that the fan rotor turns freely by hand; check that there is enough clearance for the opening motion of the check damper closure on the fan outlet end (the check damper is sold separately); It is recommended to connect the fan to the duct system using a flexible pipe connection!

- Place the fan body (8) and the fixing plugs in the previously prepared holes.
- Fasten the fan to the holes in the substructure by driving the wall bolts through the bolt holes (5) and into the wall plugs.
- Remove the outer insulation from the power cable and remove the 4 mm of insulation from the wires.
- Arrange the power cable and connect according to the electrical wiring diagram applicable to the model installed.
- Verify that the power cable cores are held tight by the terminals.
- Check the duct fan for the soundness of mounting and correct electrical installation.
- Adjust the operating parameters as follows:
Set the stop delay time with the key (3) using the potentiometer knobs on the electronic module (7).
- Attach the housing panel (1) to the middle part of the fan housing (8) with the screws (6).
- Attach the fan frame (2).
- Check that the power cable is sealed properly in all grommets and glands.
 - The connection cable must be protected in such a way that water cannot penetrate live parts along the cable in case of flooding.
- Install the front panel which acts as a guard against contact with moving parts (item sold separately).



ATTENTION! A rotating impeller can injure your fingers!

It is forbidden to start the fan without a protective mesh against touching the moving parts!

First start

Start the fan only with all safety precautions in place and all hazards eliminated. Check that it runs steadily and the air is handled efficiently (out of the room and through the air exhaust ductwork to the outside).

Check the operation of the fan (noise, vibration, the possibility to control the rotation speed).

Operate the fan only with the front bezel installed, as it is a direct touch guard on the suction side. Depending on the actual installation conditions, the fan may require a protection against touching the moving parts on the delivery side. Suitable delivery-side direct guards can be provided on request. If the fan is guarded against direct touch due to their installation conditions (e.g. in line with the air ductwork), no direct touch guard is required if the installation conditions provide an equivalent level of safety. Note that the fan user is liable for compliance with current safety standards and may be held liable for accidental injury or death caused by failure to provide the required safety equipment.

Electrical connections

- Electrical connections and commissioning of the fan shall only be completed by qualified professional electricians.
- Always follow the applicable standards, safety regulations and technical requirements specified by the power company!
- The power supply line for the fan requires a multi-pole circuit breaker / isolation switch with a minimum contact break gap of 3 mm (ref. PN-EN 60335-1)!
- The mains system, voltage and frequency must match the nameplate ratings of the fan.
- Fans with the stop delay timer: the maximum voltage limit on terminal T to initiate the stop delay time countdown or start the fan is approx. 130 V AC.

Dimensions

The dimensions of specific fan models are shown in Fig. 3.

MAINTENANCE AND CLEANING

Servicing and maintenance

- Use protective footwear and gloves during maintenance!
- During all maintenance and servicing works the electrical and OHS regulations (PN-IEC 60364-3) must be observed.
- Before servicing the fan, isolate it from the mains voltage with the circuit breaker. Secure the circuit breaker against inadvertent operation!
- The fan ductwork must be clear of foreign bodies: hazard of injury by objects blown out at a high speed!
- Do not attempt any maintenance when the fan is running or at live voltage!
- If excessive vibrations are felt or heard, have the technical inspection carried out by a qualified electrician.
- The maintenance intervals depend on the actual contamination of the fan rotor and must not be longer than 6 months!
- Check the fan rotor for cracks.
- **The manufacturer shall not be liable for any damage resulting from unprofessional repairs.**
- For equipment where engines with ball bearings have been used with "lifetime lubrication", the engine does not require lubrication.

Cleaning



Electrocution hazard by damaged wiring insulation!

Before attempting to clean the fan, isolate it from the mains voltage with the circuit breaker. Secure the circuit breaker against inadvertent operation!

- Clean the front panel and the visible parts of the housing with a damp cloth.
- Do not use aggressive paint solvents!
- Do not clean with a high pressure cleaner or strong jets of water!
- Clean carefully to prevent water from entering the motor or the terminal box.
- Always keep the guard grille at the suction side clean.

WARRANTY TERMS & CONDITIONS

1. The warranty period for the proper operation of the fan is 5 years, from the date of sale.
2. The warranty rights and obligations will be void and null without demonstrating a proof of purchase (a receipt or an invoice).
3. The warranty covers all defects and damage attributable to the manufacturer.
4. Have your product delivered for warranty servicing to the manufacturer or the original seller.
5. The manufacturer undertakes to repair the product or replace it with a new counterpart within 14 days from filing your warranty complaint.
6. The warranty does not cover any of the following: damage to the product attributable to improper or unqualified installation, operation against the intended use, improper transport, storage and/or maintenance, any faults attributable to unauthorized repairs, or any accidental damage.
7. The warranty does not cover the installation or the maintenance of the product.
8. For all matters not provided for by this Warranty Certificate, the Polish Civil Code (Articles 577- 582) shall apply.

Do not dispose of waste electrical equipment with household waste.

The crossed-out wheelie bin symbol on this product means that it is waste of electrical and electronic equipment (WEEE) at the end of its operating life and shall not be disposed with household waste. The crossed-out wheelie bin symbol specifies that the product is subject to obligatory waste segregation schedules for proper disposal. The product is made from recyclable materials and components. The product user is required to return the product which has become WEEE to a WEEE collection unit. The operators of WEEE collection units, including local WEEE locations, product resellers and other WEEE collection locations managed by local authorities form a proper waste disposal system. Proper WEEE disposal helps avoid harmful effects to humans and the environment from the risk caused by hazardous components this product may contain. The household plays an important role in contributing to reuse and recovery, including recycling, of used up appliances, and it is the stage where attitudes are created that impact the preservation of the common being the clean natural environment. Households are among the leading consumers of small appliances and equipment. A rational management of operation and disposal of small appliances and equipment will contribute to efficient recycling.

Fig. 1

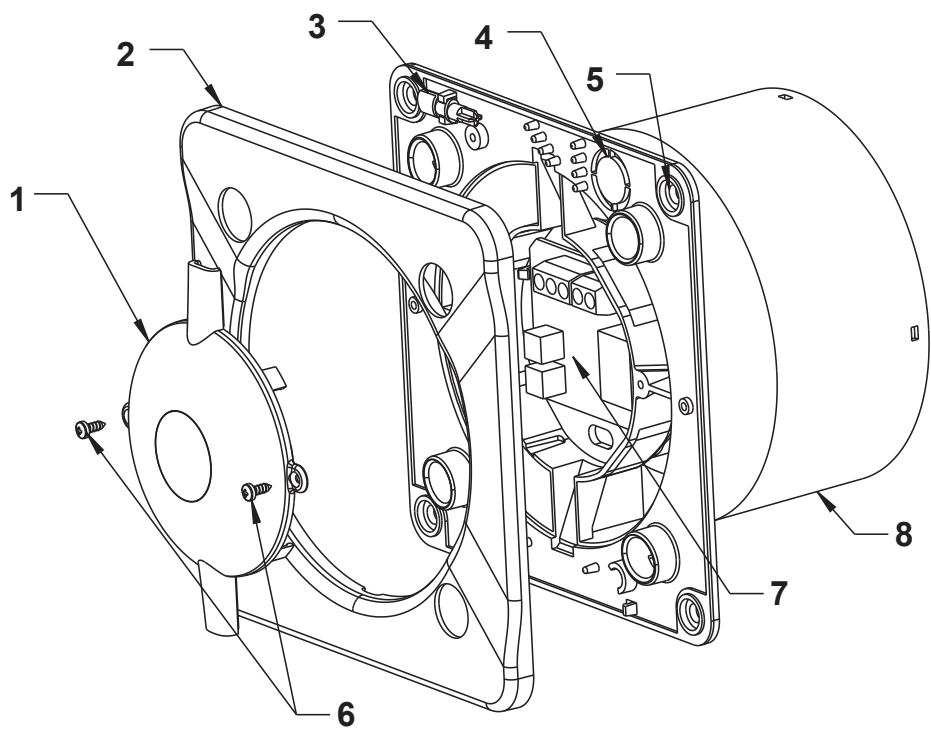


Fig. 2

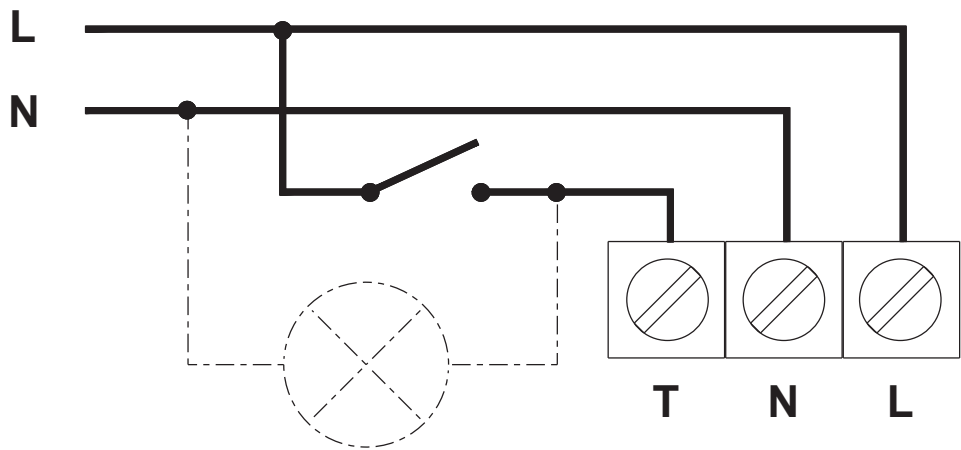
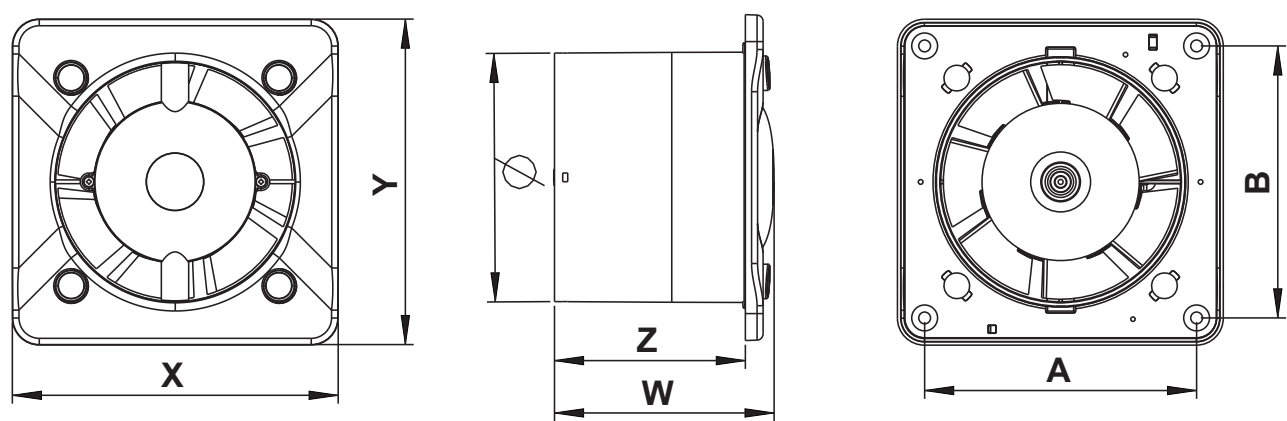


Fig. 3



Ø	A	B	X	Y	W	Z
100	109	109	128	128	88	77

CAPACITY [m³/h]	POWER CONSUMPTION [W]	PRESSURE [Pa]	NOISE LEVEL [dB]
110	13	40	36