

IMPORTANT NOTICE

Please read the Operating Manual carefully before attempting to install or service the fan! **AWENTA 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. A copy of the Operating Manual can be downloaded from www.awenta.pl

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!



Attention
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 device is designed 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 device is designed for installation at a substantial height, i.e. 2.3 m above the floor. The 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 device without authorization.
- Before installing the device, 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 device can be hazardous when operated against its intended use or installed by unqualified personnel.

Application and operating conditions

- The device is designed to supply warm air from the room with a heat source (such as a closed fireplace or a wood-fired stove) to an adjoining room.
- An example is shown in figure 5.
- The device is intended for handling air of normal quality or with a low dust content (with a particle size $< 10 \mu\text{m}$) with low aggressiveness and humidity. The device is intended for operation in temperate climate conditions and within the performance limits specified in the product catalogue.
- The device 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 device is an IPX4 and protection class II device. The device can be installed in indoor moisture Zone 2, in accordance with PN-IEC 60364-7-701, provided that the following requirements from the device 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 is secured by a cover from direct exposure to water per IPX4 and direct access to live and/or rotating parts, including the fan rotor in motion.

- The device must be operated according to its intended use and within the performance limits specified on the nameplate.

The connection of the device to the fixed electrical system must be made with NYM-O 2x1.5 mm² (H07V-K 2x1.5 mm²) cables with a maximum outside diameter of 8 mm.

- Do not use the 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 device is equipped with ball bearings that 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

Items of equipment:

- an exhaust fan (model WAB100)
- a room thermostat
- a section of ventilation duct (Ø 100 mm, length 300 mm)
- a ventilation grille

OPERATING PRINCIPLE

A properly programmed thermostat starts the exhaust fan, by means of which warm air will be supplied to an adjacent (adjoining) room. The fan will switch off when the temperature drops in the room with a heat source.

INSTALLATION



The device 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 power supply cables. Use **NYM-O 2x1.5 mm² (H07V-K 2x1.5 mm²) with a maximum outside diameter of 8 mm.**

NOTE: Make sure that the power supply cable is not live before starting work.

- Measure and make a hole for the unit duct (7) in the wall.
- Measure and make holes for the fan, grille and thermostat mounting studs.
- Remove the fan and grille from the duct.
- Slide the duct into the hole in the wall.
- Remove the front clip-on panel (1) of the fan.
- Remove the fan cover (3) fixed with the screw (2).

- Unscrew the cable clamp (4) fastened with screws (10).
- Run the power cord in double insulation through the fan penetration (11). Insert a sufficient length of the cord so that the wires can be connected to the power terminals (5).

Before attaching the fan, it is necessary to: remove foreign objects from inside the fan; check if the rotor rotates freely by putting it into motion by hand.

- Slide the fan (6) into the duct and fasten it using the mounting holes (12).

NOTE: The fan should be mounted with the grommet facing downwards.

- Remove the thermostat cover (14) fixed with the screw (17).
- Run the power cord in double insulation through the thermostat grommet (18). Insert a sufficient length of the cord so that the wires can be connected to the power terminals (16).
- Fix the thermostat using the mounting holes (19).
- Route the electrical wiring of the fan and the thermostat and then connect them according to the wiring diagram in Figure 3.
- Protect the cable against sliding out, using the clamp (4).
- Fasten the fan cover (3) and secure with the screw (2).
- Check the tightness of the power cables.
 - The power cable must be sealed to prevent ingress of water into the air exhaust fan along the power cable.
- Install the fan front panel (1).
- Fasten the thermostat cover (14) and secure with the screw (17).
- Remove the front clip-on panel (9) of the grille.
- Slide the grille flange (8) into the duct.
- Fix the grille using the mounting holes (13).
- Fasten the grille front panel (9).
- Set the desired temperature with the thermostat knob (15).



ATTENTION! A rotating impeller can crush 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

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

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.

Dimensions

Device dimensions are shown in Fig. 4.

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 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 grille at the inlet of the fan ducts clean.

WARRANTY TERMS & CONDITIONS

1. The warranty period for the proper operation of the fan is 2 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.

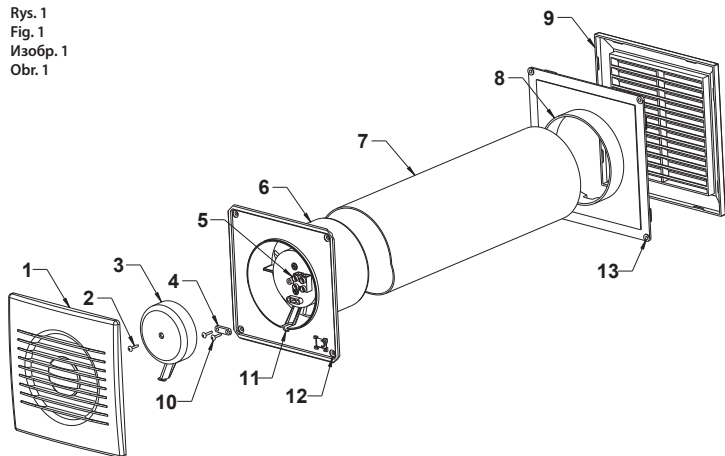
Do not dispose of waste electrical equipment with household waste.

The crossed-out wheelee 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 wheelee 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.

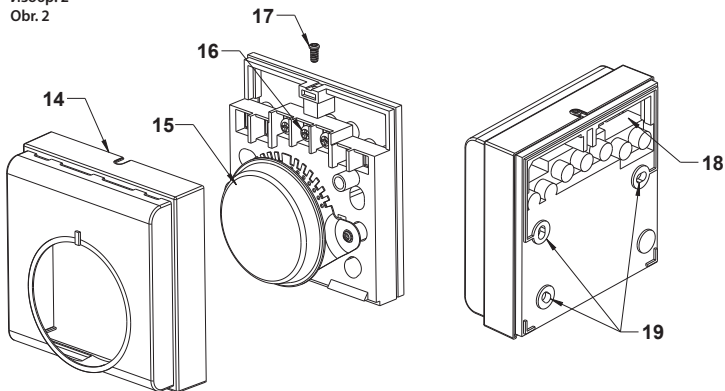


Households are among the leading consumers of small appliances and equipment. A rational management of operation and disposal of small appliances and equipment will contribute to efficient recycling.

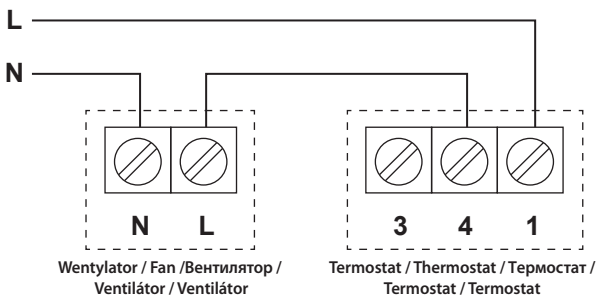
Rys. 1
Fig. 1
Изобр. 1
Obr. 1



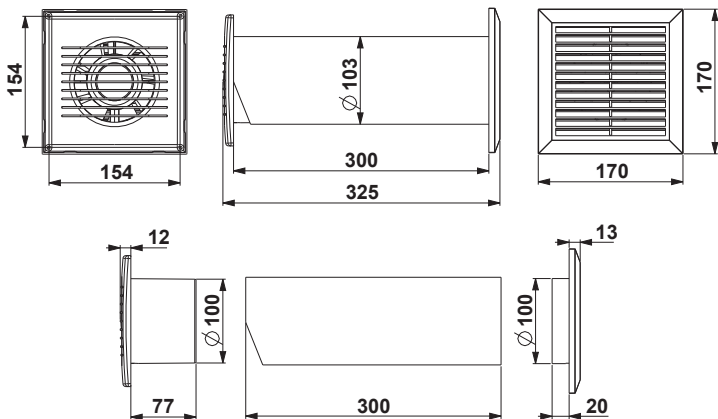
Rys. 2
Fig. 2
Изобр. 2
Obr. 2



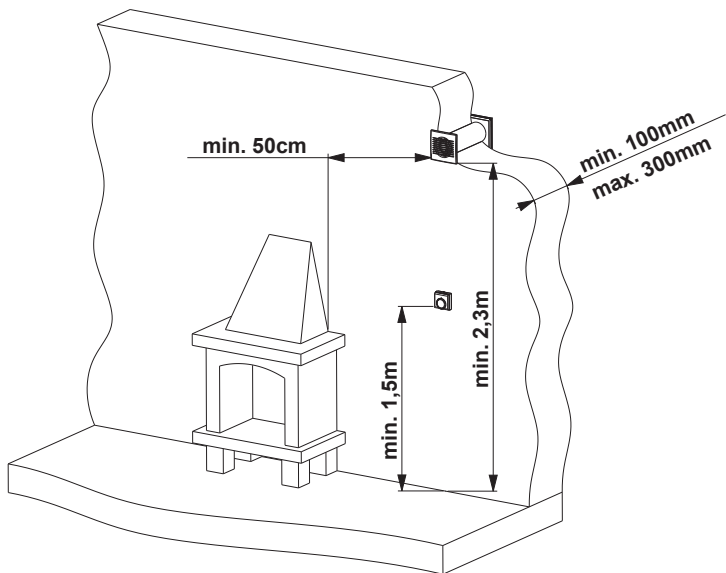
Rys. 3
Fig. 3
Изобр. 3
Obr. 3



Rys. 4
Fig. 4
Изобр. 4
Obr. 4



Rys. 5
Fig. 5
Изобр. 5
Obr. 5



Awenta
SINCE 1989

Producent / Manufacturer / Производитель / Výrobce / Výrobca:

AWENTA E.W.A. Spółka Jawna, 05-300 Mińsk Mazowiecki,
Stojadła, ul. Warszawska 99

Tel: +48 25 758 52 52, + 48 25 758 93 92 fax: +48 25 758 14 62

e-mail: awenta@awenta.pl www.awenta.pl