

IMPORTANT NOTICE

Please read the Operating Manual carefully before attempting to install or service the axial 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 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 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 axial fan can be hazardous when operated against its intended use or installed by unqualified personnel.

Application and operating conditions

- The WK fan is intended for handling indoor air of normal quality or with a low dust content (with a particle size < 10 µm) and without aggressive chemicals or high humidity. The fan is intended for operation in temperate climate conditions and within the performance limits specified in the product catalogue.
- The fan may be operated only in a permanent indoor installation and with its power supply line concealed.
- Duct fans can be installed horizontally and vertically in ventilation ducts.
- The maximum temperature of the medium handled by the fan and the maximum ambient temperature are +40°C.
- The fan is an IPX4 and protection class I device. The fan can be installed in indoor moisture Zone II, ref. IEC 60364-7-701, provided that the following requirements from the fan manufacturer are complied with:
 - 1 - correct mounting with maintaining proper tightness of a power supply cord in a grommet (see Section "Installation").
 - 2 - the air exhaust duct secures the 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 1,5 m long upstream of the fan and installed with special tools which will be required to access the fan for servicing.
- The fan must be operated according to its intended use and within the performance limits specified on the nameplate.
- **Connect the fan to the building mains (electrical system) with the following power cable: NYM-O 5x1,5 mm² (H07V-K 5x1,5mm²).**

- 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 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.

INSTALLATION



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

Preparation for installation

- Precise where the fan will be installed.
- Prepare the power cord. Use **NYM-O 5x1.5 mm² (H07V-K 5x1.5 mm²)**.

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

• Route the power cord and connect according to the wiring diagram in Figure 3.

- The connection cable must be protected in such a way that water cannot penetrate live parts along the cable in case of flooding.

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.

It is recommended to connect the fan to the duct system using a flexible pipe connection!

- Slide the ventilation ducts into the inlet (1) and outlet (2) ports of the fan.

NOTE! Attach the fan so that the motor cable gland is at the bottom!

Protect the ventilation ducts from slipping, using clamps.



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. Start the fan. 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).

The fan may be used only with ventilation ducts that protect against contact with moving parts. If the fan is installed with ducts shorter than 1.5 m, an additional protective grid is required.

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

The dimensions of specific axial fan models 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.

Cleaning



Electrocution hazard by damaged wiring insulation!

Before attempting to clean the vfan, 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 2 years, depending on the model (see information on the packaging), 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.

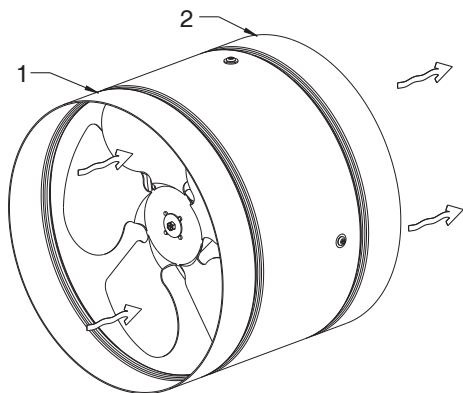
Do not dispose of waste electrical equipment with household waste.

The crossed-out wheellie 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 wheellie 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

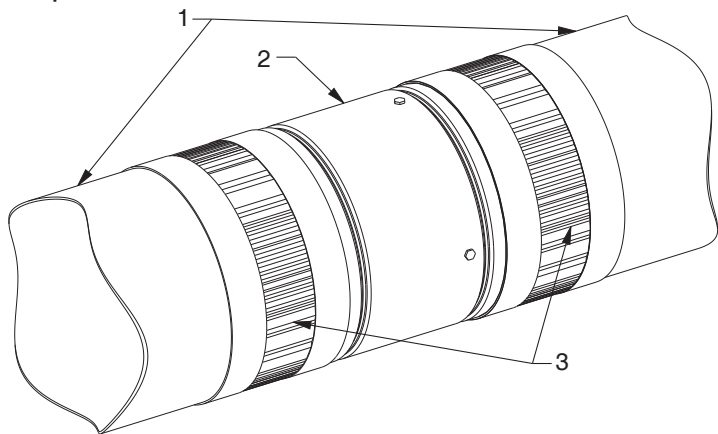
effects to humans and the environment from the risk caused by hazardous components this product may contain. The household plays an important role in contributing to reuse and recovery, including recycling, of used up appliances, and it is the stage where attitudes are created that impact the preservation 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

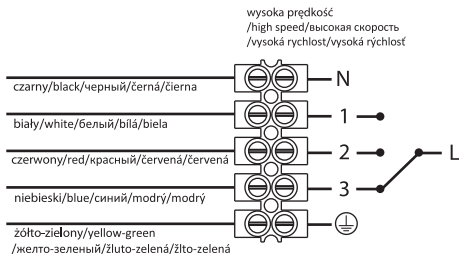
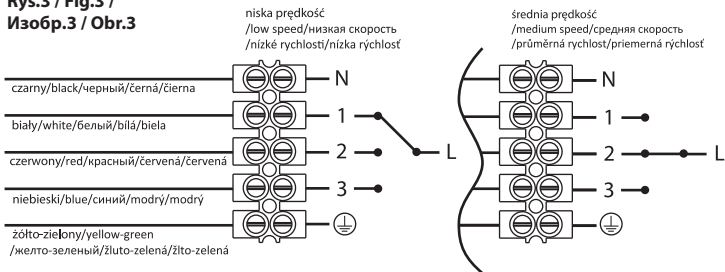


Rys.2 / Fig.2 /
Изобр.2 / Obr.2

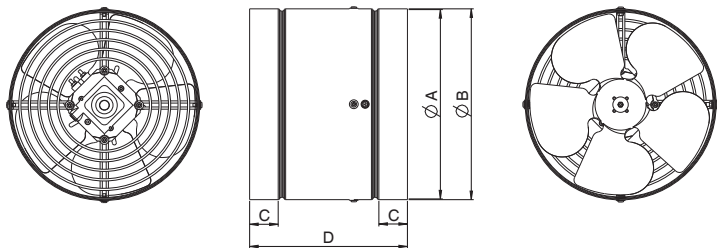


1. Kanał wentylacyjny / Ventilation duct / Вентиляционные каналы / Ventilační potrubí / Ventilačný kanál.
2. Wentylator WK / WK fan / WK вентилятор / WK ventilátor / WK ventilátor.
3. Łączniki elastyczne / Flexible couplings / Гибкие соединители / Elastické konektory / Flexibilné spojky.

**Rys.3 / Fig.3 /
Изобр.3 / Obr.3**



**Rys.4 / Fig.4 /
Изобр.4 / Obr.4**



INDEX / ИНДЕКС	ØA	ØB	C	D
WK200	210	211	40	215
WK250	260	261	40	215
WK315	325	326	60	300

Awenta
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