

### 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](http://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 fan is designed to be mounted on the roof at a substantial height. 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 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 fan can be hazardous when operated against its intended use or installed by unqualified personnel.**

### Application and operating conditions

- The fan is intended for handling indoor air of normal quality or with a low dust content (with a particle size  $< 10 \mu\text{m}$ ) with low aggressiveness and 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.
- The fan can be mounted on a roof with a maximum slope of  $15^\circ$ . For larger slopes, a special roof base should be used. Examples of fan applications are shown in Figure 4.
- The maximum temperature of the medium handled by the fan and the maximum ambient temperature are  $+40^\circ\text{C}$ .
- The fan is an IP44 and protection class I device. The fan can be installed outdoors provided that the following requirements from the fan manufacturer are complied with:
  - 1 – the correct maintained with a proper seal of the power supply line in the grommet (see Section "Installation").
  - 2 – the air exhaust duct secures the fan from direct exposure to water per IP44 and direct access to live and/or rotating parts, including a rotating impeller; 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 mm<sup>2</sup> (H07V-K 5x1,5mm<sup>2</sup>).**

- 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.

## ACCESSORIES

### Available optional accessories:

**Terminal block (standard version, no part index suffix).** *Connect the fan equipped with the terminal block as shown in the electrical wiring diagram, see Fig. 2.*

The central fan is started and stopped by a separate on/off switch installed in the power supply line of the building (and not included with the product). The rotational speed may be set permanently depending on the connection or adjusted with an additional switch dedicated to single-phase, three-gear engines.

## 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 **NYM-O 5x1.5 mm<sup>2</sup> (H07V-K 5x1.5 mm<sup>2</sup>)**.

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

- Measure and drill the mounting holes in the fan base (6).
- Measure and drill holes for the mounting studs in the substructure to which the fan will be fixed.
- Fix the fan to the substructure using the mounting holes.

**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.**

- Remove the fan cover (2) fixed with screws (1).
- Route the cable through the nut (5) and the grommet (4).
- Remove the outer insulation from the power cable and remove the 4 mm of insulation from the wires.
- Route the power cord and connect it to the terminal block according to the wiring diagram in Figure 2.
  - The power cable must be sealed to prevent ingress of water into the air exhaust fan along the power cable.
- Verify the tightness of the wires in the terminals.
- Secure the cable against slipping out by tightening the nut (5).
- Place the fan cover and secure it with screws.
- Place the ventilation duct on the inlet pipe connection of the fan and then secure it against slipping.

**It is recommended to connect the fan to the duct using a flexible pipe connection.**

- Seal the gap between the fan base and the substructure.



**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 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.

### 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.
- The grid at the inlet of the fan ducts must be kept clean at all times.

## WARRANTY TERMS & CONDITIONS

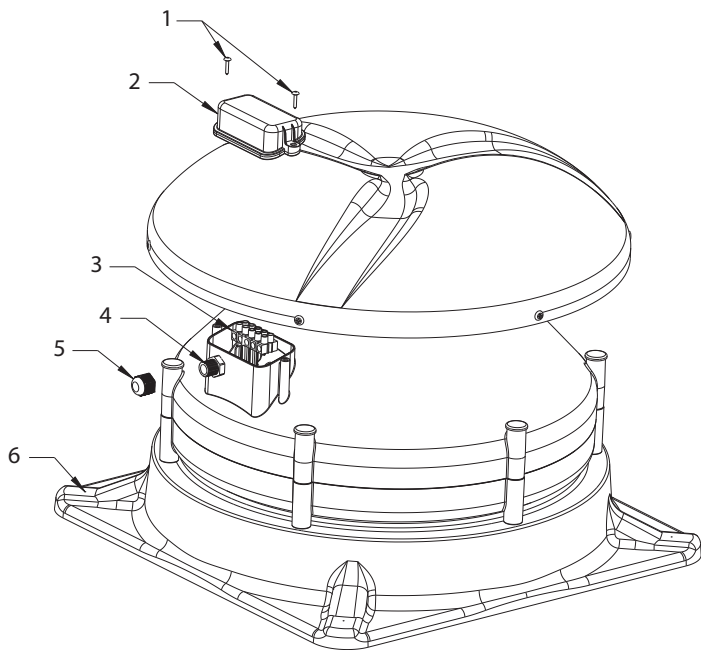
1. The warranty period for the proper operation of the fan is 2 years, from the date of sale.
2. The warranty rights and obligations will be void and null without demonstrating a proof of purchase (a receipt or an invoice).
3. The warranty covers all defects and damage attributable to the manufacturer.
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.**

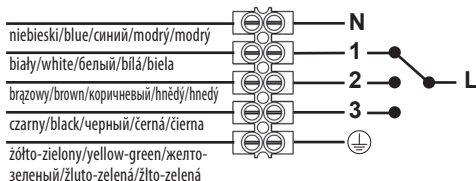
The crossed-out wheellie bin symbol on this product means that it is waste of electrical and electronic equipment (WEEE) at the end of its operating life and shall not be disposed with household waste. The crossed-out wheellie bin symbol specifies that the product is subject to obligatory waste segregation 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.



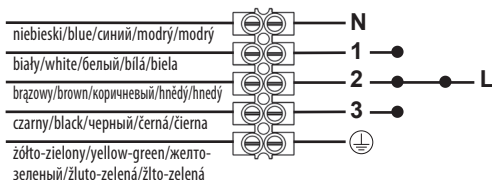
Rys. 1  
Fig. 1  
Изобр. 1  
Obr. 1



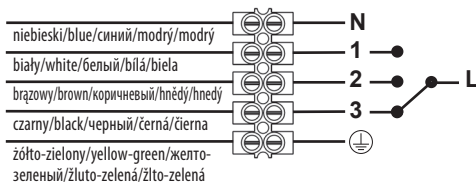
niska prędkość  
/low speed/низкая скорость  
/nízké rychlosti/nízka rýchlosť



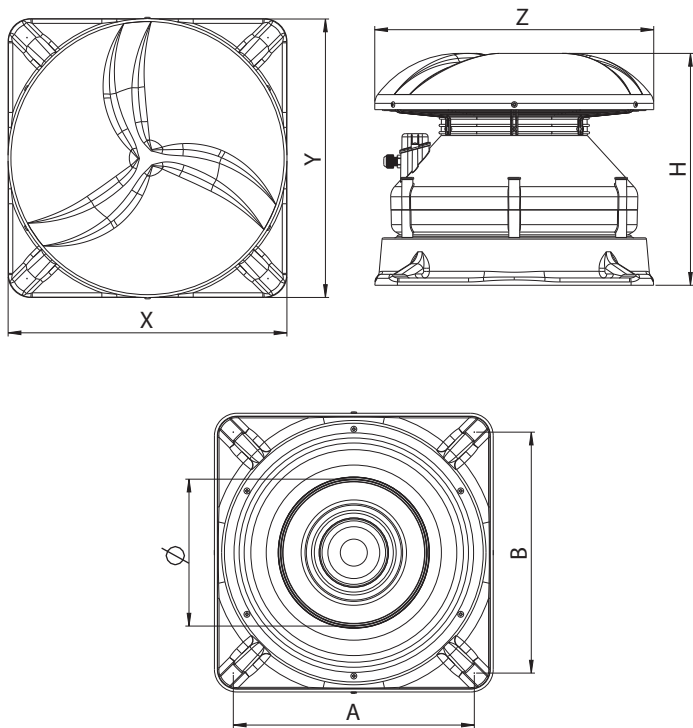
średnia prędkość  
/medium speed/средняя скорость  
/průměrná rychlost/priemerná rýchlosť



wysoka prędkość  
/high speed/высокая скорость  
/vysoká rychlost/vysoká rýchlosť



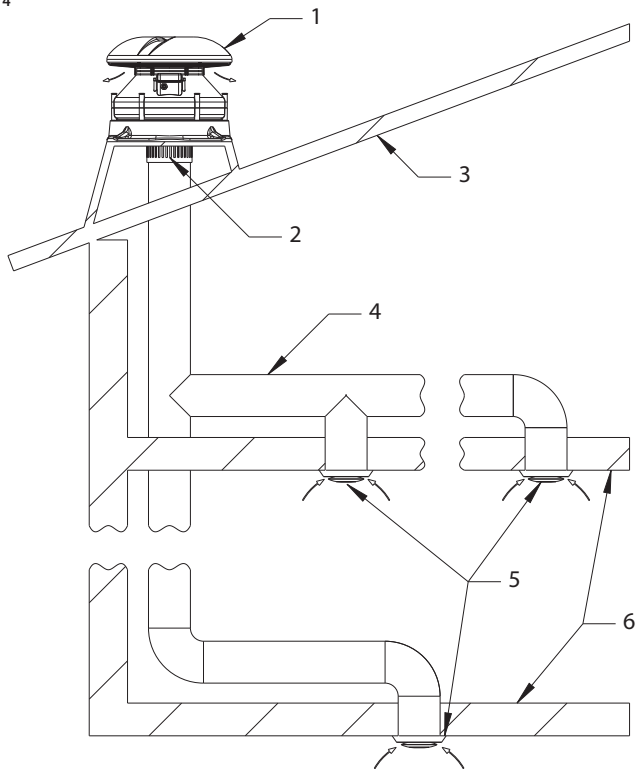
Rys. 3  
 Fig. 3  
 Изобр. 3  
 Obr. 3



INDEX / ИНДЕКС	Ø	H	Z	A	B	X	Y
<b>WD150/160</b>	150/160	350	382	330	330	382	382
<b>WD200</b>	200	350	382	330	330	382	382



Rys. 4  
Fig. 4  
Изобр. 4  
Obr. 4



1. Wentylator dachowy / Roof fan / Крышный вентилятор / Střešní ventilátor / Strešný ventilátor
2. Łącznik elastyczny / Flexible connector / Гибкий разъем / Flexibilní konektor / Flexibilný konektor
3. Dach / Roof / Крыша / Střecha / Strecha
4. System kanałów wentylacyjnych / Ventilation duct system / Система вентиляционных каналов / Systém ventilačních kanálů / Systém ventilačných kanálov
5. Anemostaty wywiewne regulowane / Adjustable exhaust diffusers / Регулируемые вытяжные анемостаты / Vůvěvné anemostaty nastavitelné / Nastavitelné výstupné anemostaty
6. Sufit / Ceiling / Потолок / Strop / Strop

**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](mailto:awenta@awenta.pl) [www.awenta.pl](http://www.awenta.pl)*