

## aRd FANS OPERATION AND ASSEMBLY MANUAL

### DEAR SIR/ MADAM,

Thank you for choosing our product. We guarantee that it shall meet all your expectations. We wish you happiness with the purchased fan and its use.

### APPLICATION:

aRd fans can be used indoors (workshops, halls, warehouses, garages).  
aRd fans can be controlled by using the rotation controls.

### CONSTRUCTION:

aRd fan is constructed of:  
- the inductive, asynchronous, monophasic engine, adjusted to continuous operation,  
- the composite radial turbine,  
- the housing made of pressed steel sheet with anti-corrosion protection.

### OPERATION:

aRd fans do not require frequent maintenance. They are suitable for continuous operation and depending on the working conditions of the fan, it can be carried out periodically if necessary.

### ASSEMBLY:

aRd fans are assembled on the wall, the ceiling or the prepared frame for round channel installation.

After unpacking the fan, check the following:

- the condition of the supply cable (cuts, cracks of insulation),
- the condition of the fan housing (dents, distortions)
- the propeller shall not rub against the housing.

The data on the technical label shall correspond to the specifications of the electrical system.

It is recommended to check the condition of the product due to any damage caused in transport.

### NOTE!!!

Before installation, disconnect power supply in the electrical system!

If there was no damage to the product, you can proceed to installation of the fan at the destination:

- prepare electrical connections,
- mount the fan in the ventilation duct,
- impose the ducts on both sides on the flanges ribbed in the housing,
- tighten the flexible ducts using the terminal clamp and screw driver (so as to put the band in the ribs in the housing),
- connection to the electrical system shall be carried out by qualified personnel with the permissions!

### MAINTENANCE:

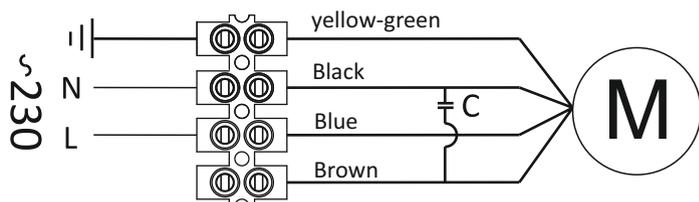
In order to remove contamination from the fan:

- disconnect the fan from the grid,
- remove the fan,
- in the event of a serious degree of contamination, remove the turbine by using a screwdriver or a key,
- thoroughly wash all components with a damp cloth with small amount of detergent, taking care not to wet the engine,
- after wiping dry all components of the fan, re-install them (the method of mounting of the propeller to the engine axis is solved by means of a spacer and a bolt, so
- that the bolt is not tightened all the way),
- install the fan in the destination place.

### ENGINE MAINTENANCE:

The engine shall be subjected to periodic inspection depending on the conditions of operation, but not less frequently than once every two years. The inspection

### ELECTRICAL CONNECTION



### NOTE

The electrical connection must be carried out by a qualified electrician with the SEP authorisation!

Before carrying out any maintenance operations or adjustments, disconnect the fan from the mains. The electrical system must include an isolating switch, in which the distance between the terminals of all poles shall be not less than 3 mm. This required absolute grounding of the fan.

Adequate precautions must be taken to avoid the reverse flow of gases into the room from the open chimney channel or other devices with an open flame.

Do not apply aRd fans in the rooms containing an increased amount of moisture and as the explosion-proof fans. All the maintenance operations must be carried out after disconnecting aRd fan from the mains, even if the fan is not running!!!

It is not allowed to approach to the fan during operation and without first having disconnected the power supply. It is not allowed to assembly aRd fan in a manner inconsistent with the manual or operate it if it is even partially incomplete! It is essential to connect the grounding wire!

Check the direction of rotation of the propeller after connecting, because the wrong direction of the turbine will cause improper operation of the device. In the event of damage, have the device repaired by qualified service. Before starting the engine, check all screw connections.

		Ard 100	Ard 125	Ard 150	Ard 160	Ard 200	Ard 250	Ard 315
AIR FLOW	m <sup>3</sup> /h	250	340	590	680	970	1050	1440
ACOUSTIC PRESSURE	dB(A)	63	68	64	65	64	66	70
SUPPLY VOLTAGE	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50
ENGINE ROTATIONS	obr.min	2600	2600	2500	2500	2550	2550	2550
POWER	W	65	68	98	100	152	150	205
CURRENT CONSUMPTION	A	0,3	0,3	0,44	0,45	0,72	0,70	0,92
MAX WORKING TEMPERATURE	°C	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60
WEIGHT	kg	3,5	3,5	4,5	4,5	6,1	6,1	6,8
PROTECTION DEGREE	IP	X4						
INSULATION CLASS		F	F	F	F	F	F	F



Do not dispose of waste electrical equipment with household waste.

The crossed-out wheeled 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 wheeled bin symbol species 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. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product. 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.

### GUARANTEE

aRd duct fans have 2-year guarantee valid from the date of purchase. The guarantee is valid only with a proof of purchase and the properly completed guarantee card. It shall not include defects that arose as a result of external mechanical forces activities, contaminants, own modifications, exposure to chemicals, improper assembly.

Guarantee no: \_\_\_\_\_

Date of report	Date of repair	Scope of repair	Signature

<b>Model:</b> _____ <b>Serial number:</b> _____ <b>Date of sale:</b> _____ <b>Receipt number:</b> _____ Seller's stamp _____ Date _____ Service's stamp _____	<b>Model:</b> _____ <b>Serial number:</b> _____ <b>Date of sale:</b> _____ <b>Receipt number:</b> _____ Seller's stamp _____ Date _____ Service's stamp _____	<b>Model:</b> _____ <b>Serial number:</b> _____ <b>Date of sale:</b> _____ <b>Receipt number:</b> _____ Seller's stamp _____ Date _____ Service's stamp _____
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**2 year guarantee**