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aRil 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:

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

CONSTRUCTION:

aRil 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:

aRil 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:

aRil 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 includes cleaning and visual inspection of the exterior of the engine and securities. The inspection shall be carried out by a person with the appropriate qualifications.

ELECTRICAL CONNECTION:

Make sure that the voltage (V) and frequency (Hz) of the power supply correspond to the values indicated on the nameplate. The appliance must be able to be disconnected from the mains electricity supply after installation. It can be disconnected by making the plug accessible or by incorporating a switch in the fixed wiring that meets electrical installation standards. The appliance must be permanently connected with wiring for fixed installation. (2- or 3-core cable with a minimum cross-section of 1 mm² and maximum of 1.5 mm²).

To complete the electrical connection, follow the wiring diagram depending on the model that you wish to connect (see fig. 3A, 3B, 3C, 4A, 4B).

No earthing connection is required, given that this is a doubly-insulated appliance (Class II).

Remove the connection cover as shown in fig. 2.

Perforate the flex holder (0) to allow the power supply wires to pass through. The power supply cable must be placed so that no liquid or va-pour can enter the appliance along it.

If this were not possible, the cable entry should be sealed additionally, e.g. with silicone.

Otherwise, the indicated IP rating would not be maintained. This appliance has a one, two or three-speed motor (depending on the model) If you wish to install a commutator that lets you choose between high speed (S3), medium speed (S2) (only in the Duct in Line 200/910 model) and slow speed (S1), see fig. 3A - 3B.

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 aRil 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 aRil 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 assemble aRil 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.

fig. 2

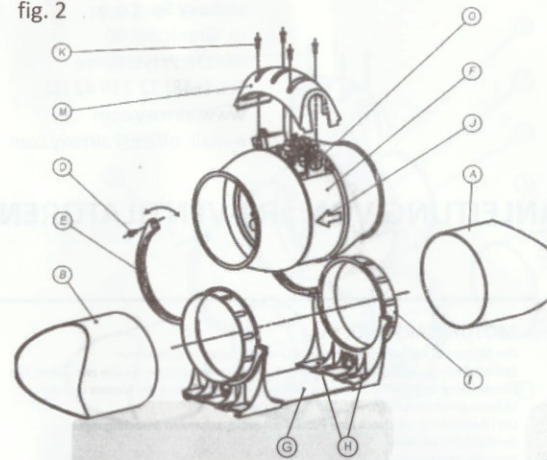


fig. 3C

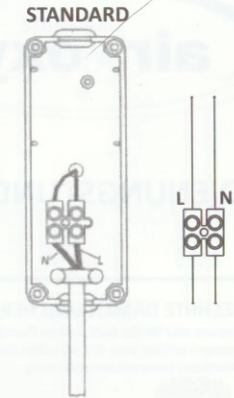
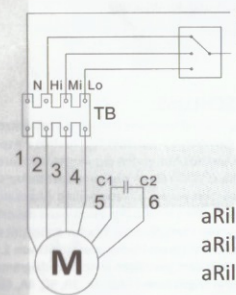
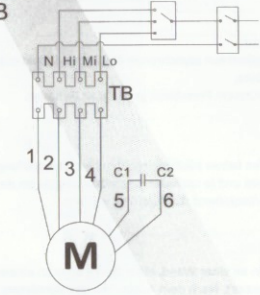


fig. 3A



aRil 100 – 210
aRil 125 – 360
aRil 150 – 500

fig. 3B



aRil 200 - 900

1	N	Black
2	Hi	Blue
3	Mi	Brown
4	Lo	White
5	C1	Red
6	C2	Purple

GUARANTEE

aRil 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.

PARAMETER		aRil 100-210	aRil 125-360	aRil 150-500	aRil 200-900
AIR FLOW	m ³ /h	198	300	432	870
ACOUSTIC PRESSURE	dB(A)	56	57	63	68
SUPPLY VOLTAGE	V/Hz	230/50	230/50	230/50	230/50
ENGINE ROTATIONS	obr./min	2300/1700	2300/1700	2700/2000	2700/2000/1800
POWER	W	23	24	40	105
CURRENT CONSUMPTION	A	0,18/0,10	0,18/0,10	0,36/0,27	0,34/0,27/0,24
MAX WORKING TEMPERATURE	°C	35	35	35	40
WEIGHT	kg	2,6	2,6	4,2	5,6
PROTECTION DEGREE	IP	X2	X2	X2	X2
INSULATION CLASS		1	1	1	1

Guarantee no: _____

Date of report	Date of repair	Scope of repair	Signature

Model: _____ Serial number: _____ Date of sale: _____ Receipt number: _____ Seller's stamp Date _____ Service's stamp	Model: _____ Serial number: _____ Date of sale: _____ Receipt number: _____ Seller's stamp Date _____ Service's stamp	Model: _____ Serial number: _____ Date of sale: _____ Receipt number: _____ Seller's stamp Date _____ Service's stamp
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2 year guarantee