



Manual guide

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:

Fans are used to force air exchange at the installation site. aRil fan can be used indoor (workshops, halls, warehouses, garages). aRil fans can be controlled by using the speed controllers.

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 an 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 of 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 power supply

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 popeller to the engine axis is solved by means of a spacer and a bolt, so spacer and a bolt, so that the bolt is not tightened all the way)

install the fan in the destination place

connect the fan to the power supply

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.

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Check the following:

resistance of the insulation and windings

resistance of the grounding

status of the bearings

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). 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 (O) to allow the power supply wires to pass through.

The power supply cable must be placed so that no liquid or vapour 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 mechanical rotation switch that lets you choose between high speed, medium speed and slow speed, see fig. 3A - 3C.

Make the necessary settings according to the installed model. The exhaust fan will turn on if activated by the switch. To complete the installation, make sure that all connections have been made correctly and make sure that the cables are properly placed. Put the cover back in position and make sure it will not be removed without a tool. Make sure that the blades rotate freely.

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.

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! Check the direction of rotation of the impeller, 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.

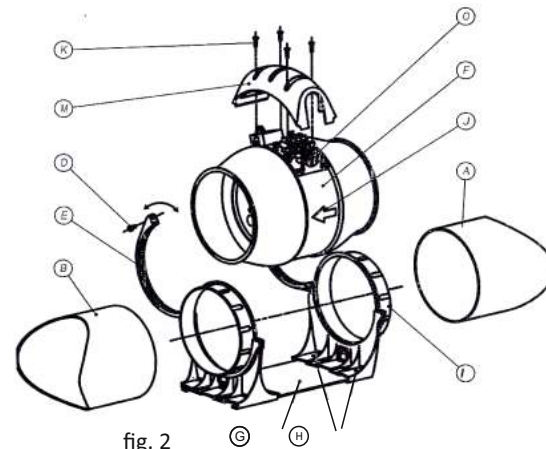


fig. 2

ELECTRICAL CONNECTION

fig. 3A	fig. 3B	fig. 3C
aRil 100 aRil 125 aRil 150/160	aRil 200	aRil 250 aRil 310
1 black (N-)	1 black (N-)	1 yellow-green (↓)
2 blue (L1)+N -high speed	2 blue (L1) +N - high speed	2 white (L2) +N- lowest speed
3 brown(L2) +N - medium speed	3 brown (L2) +N - medium speed	3 black (L1)+N- high speed
4 white(L3) +N - lowest speed	4 white (L4) +N - lowest speed	4 red (N-)

GUARANTEE

aRil duct fan 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 caused by external mechanical forces activities, contaminants, own modifications, exposure to chemicals, improper assembly.

PARAMETER		aRil 100	aRil 125	aRil 150/160	aRil 200	aRil 250	aRil 310
AIR FLOW	m³/h	120	180	288	660	1200	1680
		138	200	330	750	1470	2220
		198	280	432	870		
ACOUSTIC PRESSURE	dB(A)	41	41	54	61	63	63
		46	46	56	63	70	70
		56	56	63	68		
SUPPLY VOLTAGE		220-230V ~50 Hz					
ENGINE ROTATIONS	1/min	1500	1500	1450	1250	2150	1650
		1750	1750	1700	2050	2550	2150
		2350	2350	2250	2300		
POWER	W	18	20	34	95	134	200
		19	22	36	98	200	290
		23	25	40	105		
CURRENT CONSUMPTION	A	0,095	0,098	0,17	0,44	0,7	0,9
		0,10	0,102	0,18	0,45	0,9	1,3
		0,11	0,112	0,19	0,45		
MAX WORK TEMP		-20 ~+60 °C					
WEIGHT	kg	2	2,1	2,9	4,9	7,8	10,5
PROTECTION DEGREE	IP	X2	X2	X2	X2	X2	X2
INSULATION CLASS		1	1	1	1	1	1

Guarantee no: _____

<Data wykrycia usterki>	Date of repair	Scope of repair	Signature
<hr/>			
Model _____ Serial number: _____ Date of sale: _____ Receipt number: _____	Model _____ Serial number: _____ Date of sale: _____ Receipt number: _____	Model _____ Serial number: _____ Date of sale: _____ Receipt number: _____	
date _____ Service stamp	date _____ Service stamp	date _____ Service stamp	

2 year guarantee