

Chapter 6 - Maintenance

It is considered the set of maintenance operations that must be carried out periodically to ensure the best working and longer life of the equipment. The personnel for maintenance activities must always wear personal protective equipment (gloves, goggles, safety shoes etc.). The maintenance consists essentially in:

- Check the status of the various parts operating, and their correct work
- Correction of those anomalies that, even if at the time of control are in the foreseeable tolerances, can worsen causing major drawbacks. Any maintenance operation must be done when the machine is stopped, after interrupting the electric power supply.

Operators maintenance workers must be skilled technicians, mechanical and/or electrical.

6.1 In the event that the fan did not work, contact the company Arienti & C. SRL and/or otherwise qualified personnel.

If it is necessary to replace the electric motor, follow the operations described below:

- The new motor must be conform to the characteristics of the original motor and in any case approved by the technicians of the company Arienti & C. SRL.
- To replace the motor, remove the safety mail net in the rear area, unscrew the screws fixing the motor, pay attention to the rotor with blades, remove the motor shaft from the hub of the blades, insert the new crankshaft, secure the blades on the shaft hub, reassembly the motor, fix it to the support plate and manually rotate the fan blades to make sure they can freely wheel, without contacts or impediments.

6.2 Electrical connection

For the electrical connection of the motor follow the instructions from the user manual and maintenance of the motor manufacturer. It is responsibility of the electrician to certify and verify conformance of the electrical system. In the case in which the circuit breaker is already provided, the connection to the system must respect the above points.

WARNING: When service or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.

WARNING: electrical cables adjacent to the fan must be fixed to prevent the cable from falling into the fan or oscillates for wind effect generated by the fan.

6.3 Cleaning Machine

- Stop the machine
- Wait until the fan is stopped
- Block the switch through a lock or put the sign "Man at work do not switch on", until the end of the operations.
- Using a portable vacuum cleaner, sucking the dusty debris or blow by compressed air.
- Do not wash the fans, in any case do so following the instructions provided in the above paragraphs.

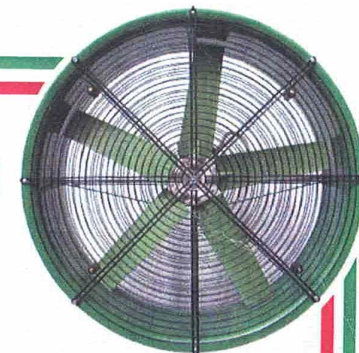
WARNING: Risk of fire, electric shock, or injury to persons during cleaning and user-maintenance! Disconnect the appliance from the power supply before servicing.

WARNING: Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device to the service panel, such as a tag.



made in Italy

ARIENTI



CIRCULAR FAN AGRR

User's manual Instructions for use and maintenance

Chapter 1 - Introduction

1.1 Importance of the manual

- The manual has to be considered as part of the fan
- The manual has to be stored as long as the fan is in use
- The manual has to be given to the user and eventually passed to a new owner of the fan

1.2 Storage of the manual

- The manual has to be used with attention, avoid damage
- The manual has not to be tampered
- The manual has to be replaced if it was lost. The manufacturer will provide a new manual.

Chapter 2 - General Information

2.1 Identity of the machine manufacturer

- Arienti & C. SRL realized the Circular Fan "Agr" described below, complying with all safety requirements provided by European Directive 2006/42/CE, 2014/35/UE (EN 12100.2010, EN ISO 13857, EN ISO12499) and by applying the CE mark to the equipment.

- The Fan is equipped with a plaque for identification, containing the following data:

- Name and address of manufacturer
- Model
- Serial number
- Year of construction
- CE mark

If, for accidental reasons, the plaque is damaged or missing, the customer has the responsibility to inform immediately the constructor that will provide to replace it.

If the label applied by the company Arienti & C. SRL is removed, the warranty will automatically lapse.

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2.2 General Safety Information

The equipment was designed in accordance to the requirements and regulations in the area of workplace health and safety and in compliance with health and safety requirements determined by the Directive 2006/42/CE. According to Directive 2006/42/CE and subsequent amendments, it discloses the following definitions:

- Dangerous areas: any area in the proximity of the equipment in which the presence of an exposed person constitutes a risk to the safety and health of the same.
- Exposed person: any person who is, partly or wholly, in a dangerous area.
- Operator: a person or persons responsible for the use of the equipment and its maintenance and cleanness.

To better specify the areas of intervention and the qualification of operators, as well as to make easier and understandable the reading of this manual, the following classifications are specified:

- **CONDUCTOR PERSON:** a person qualified, authorized and responsible for the operation of the equipment.
- **MAINTENANCE MECHANIC:** qualified and authorized technician able to install, repair, perform extraordinary maintenance of mechanical nature.
- **MAINTENANCE ELECTRICIAN:** qualified and authorized technician able to install, repair, perform extraordinary maintenance of mechanical nature.

2.3 General Safety Attention

- Unloading and transporting the equipment to the installation site must be performed by skilled personnel only.
- The equipment must be employed exclusively by trained personnel able to operate according to the safest procedure for its own and others' safety
- Always disconnect the power supply before carrying out any type of operation.
- Before starting the equipment, the operator must verify the presence of visible defects on the safety devices and the equipment itself.

2.4 Need to read the manual

The employer is responsible for the dissemination of this manual to all staff and operators who interact with the equipment.

Operators who interact with the equipment, have the duty to read up well the contents of this manual before carrying out any work on the equipment, in accordance to safety standards.

2.5 Information relating to possible defects

Operators have the duty to report to their superiors any defects that could generate a danger.

2.6 Symbols used in the manual

Legend of symbols used:



Electric signs



Prohibition of action on moving parts



Prohibition of removal of safety devices and protections

Chapter 3 - Installation

Before proceeding with installation of the circular fan, check that the beams or other means of support are adequate to support the weight of the equipment.

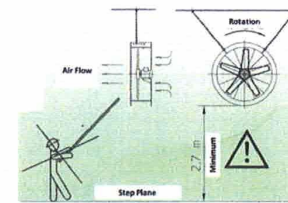
WARNINGS:

- Circular fan must be installed by qualified personnel. in compliance with current appli-

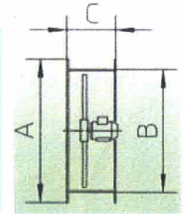
- Circular fan must be installed at a height not less than 2.7m compared to the step plane.
 - Circular fan must be installed in vertical position.
- The company Arienti & C. SRL is not liable for any damage to persons or things due to incorrect installation of the equipment.

3.1 Handling and Transport

The fan is composed by a supporting circular steel case, and for this reason is supplied without packaging. The transport, handling and unloading must be carried out with care and is suggested to use appropriate transport means, such as manual trolleys. Specification of sizes and weights to be moved



Model	Dimensions (mm)			Weight Kg.
	ØA	ØB	C	
600	700	610	355	26
700	800	710	355	29
800	1000	910	355	35



Chapter 4 - The Circular Fan

- The "AGrr" circular fans are designed for use in the livestock sector, intended for closed and/or covered building used to stall the animals and with the possible presence of operators.
- The group is characterized by a remarkable strength given by the robust construction of the carrying case, made of hot galvanized steel sheet or stainless steel.
- The high-efficiency impeller is made with aerofoil blades in polyester, mounted on aluminum hub directly keyed on the motor shaft.

The machine must not be used for applications other than those specified in this manual.

4.1 Limitation of use

The company Arienti & C. SRL is not liable for any damage to persons or things due to incorrect use and/or modifications of the equipment.

Chapter 5 - Safety devices

5.1 General safety rules

During maintenance operations it is due to observe the general safety requirements in addition to the provisions contained in this manual and in particular:

- Never operate when the fan is working
- Do not disable or bypass the safety devices installed on the fan.
- Take actions on the fan only when the electric power is disconnected.
- During maintenance operations voltage selector must be locked by padlock, and the key must be kept by the operator, or put a clear sing to indicate "Man at work do not switch on", until the end of the intervention. The protection devices installed on the machine ensure safe working conditions and their modification, even partial, may lead to a dangerous situation.
- It is forbidden to approach the fan while it is working

CAUTION: Even when a fan is not powered the blades can move, either because of a natural air flow through the fan, and if the air current is induced by another fan in function in other parts of the building.

5.2 Safety devices in use

The safety devices are made by a metal or plastic net fixed to

