



FAN MÜHENDİSLİĞİ

# USER MANUAL

ROUND  
CHANNEL

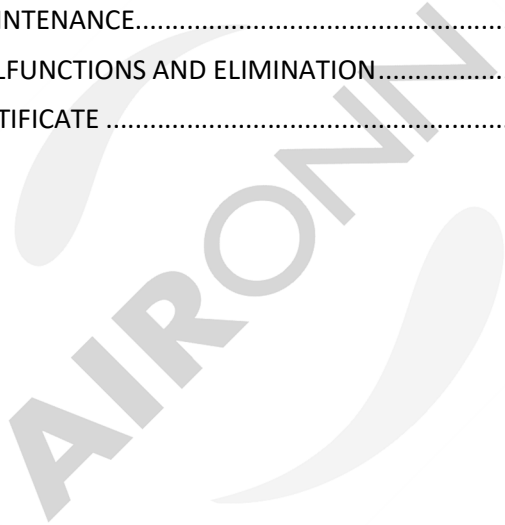
AIR-YKF SERIES



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## COMPANY INFORMATION

**AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SAN. DIŞ TİC. LTD. ŞTİ**  
**CENTRAL** : TATLISU MAH. ŞENOL GÜNEŞ BULVARI MİRA TOWER  
**OFFICE** : KAT: 3 D: 16 ŞERİFALİ/ATAŞEHİR/İSTANBUL  
: KARATEPE MAH. CUMHURİYET CAD. MERA SOK. NO:13  
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## WARRANTY and SERVICE

***We kindly ask you to follow the recommendations set out below;***

1. When you purchase your product, do not forget to have the Warranty Certificate approved by your Authorized Dealer.
2. Follow the instructions in the user manual when using your product.  
This warranty given by AIRONN Ventilation does not cover the elimination of malfunctions caused by the use of the product outside the instructions specified in the user manual. The following conditions are also excluded from the warranty:
  - Damages and malfunctions occurring during transportation, loading and unloading after the delivery of the product to the customer,
  - Damages and malfunctions caused by natural disasters such as fire, earthquake, lightning strike, etc,
  - Faulty electrical installation, low or excessive voltage, damage and malfunctions that may occur if the product is used at a voltage different from the voltage on the label,
  - Damages and malfunctions caused by user errors.
3. The repair of the above-mentioned damages and malfunctions is made by setting a fee according to the extent of the damage and malfunction. Transportation and installation of the product to the place where it will be used are excluded from the product price.
4. It is the responsibility of the seller, dealer, agent or representative from whom the consumer has purchased the product to approve and deliver this warranty certificate to the customer.
5. In case of any dispute during the warranty period of the product, the user must keep the invoice or a legible photocopy of it together with the Warranty Certificate.
6. The Warranty Certificate of the product is invalid if the Warranty Certificate of the product is modified, the original serial number on the product is removed or changed.

## WARRANTY TERMS

- The warranty period is 24 months from the date of delivery of the product.
- All parts on the product are under warranty under the assurance of AIRONN Ventilation.
- In the event of a malfunction, the repair of the product cannot exceed 20 working days and the repair period is added to the warranty period. The repair period starts when the user notifies the service station or, if there is no service station, the seller, dealer, agent, representative, importer or manufacturer of the product. Fault notification can be made by the consumer via telephone, e-mail, fax, registered letter with return receipt, etc. However, in the event of a dispute, the burden of proof lies with the consumer. If the malfunction of the product is not resolved within 10 business days, the manufacturer or importer company must make another product with similar features available to the consumer until the repair of the product is completed.
- In the event that the product suffers a malfunction caused by material, workmanship and assembly defects within the warranty period, it will be repaired without any labor cost, replacement part fee or any other charge.
- The elimination of malfunctions caused by the use of the product outside the instructions specified in the user manual is not covered by the warranty.
- For any problem that may arise regarding the Warranty Certificate, the General Directorate of Consumer Protection and Market Surveillance of the Ministry of Customs and Trade can be contacted.
- Consumers can file their complaints and objections to consumer courts and consumer arbitration committees.
- The product despite the consumer's right to repair;

- From the moment of delivery to the consumer, provided that it is within the specified warranty period, at least 4 (four) times within one year or 6 (six) times within the warranty period specified by the manufacturer or importer, and in case of failure to benefit from the goods caused by these failures,
- If the maximum time specified for repair is exceeded,
- In the event that it is determined that it is not possible to repair the malfunction with the report to be issued by the service station of the company, or in the absence of a service station, by any of its dealer, agency, representative, importer or manufacturer, respectively,

The consumer may request free replacement of the product, a refund or a discount on the sales price at the rate of defect.

- If the product is found to be defective, the consumer;
  - I. Withdrawal from the contract by declaring that you will return the product sold,
  - II. Retaining the sold product and asking for a discount on the sale price in proportion to the defect,
  - III. To demand free repair of the product sold at the seller's expense where the defect of the product does not require an excessive expense,
  - IV. If possible, to demand the replacement of the sold product with a defect-free equivalent,It may exercise only one of its optional rights. The seller is obliged to fulfill this request preferred by the consumer.



## **SPECIAL WARRANTY TERMS**

1. Our company is not responsible for any damage that may occur during transportation and assembly by the customer.
2. Any malfunctions that may occur during the warranty period shall only be repaired by our service personnel or by service personnel who have received the necessary training and authorized by us. The warranty is void if other persons interfere with the machine without our written agreement.
3. The warranty given by our company is valid if the machine is used as described in this user manual, otherwise the warranty is void.
4. If the warranty certificate is falsified, the original serial number on the machine is removed or defaced, this warranty shall be void.
5. The warranty given is valid provided that the obligations and responsibilities of the customer written in this document, user manual and catalog are fully fulfilled.

## USER'S RESPONSIBILITIES AND WARRANTY

**AIRONN cannot be held responsible in any way for the following except as included in this user manual.**

- Any use not permitted by laws and norms
- The area and structure where the machine will be used is inappropriate and unfavorable
- Failure to comply with or misuse the subjects specified in the manual
- Using electricity that is not suitable for the specified electrical installation
- Any modification not performed by authorized persons
- Using the machine beyond its performance
- Lack of necessary maintenance
- Use of the machine without trained personnel
- Use of non-original and non-manufacturer-approved spare parts



**IT IS FORBIDDEN TO MAKE ANY MODIFICATIONS ON THE MACHINE !!!**

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

Aironn AIR-YKF series fan is suitable for operation at maximum 55 °C. Six different models are offered so that you can make product choices suitable for your needs. It meets high pressure requirements thanks to its dense winged forward tilted blade structure. Easy installation during operation thanks to the openable motor cover.



Figure - 1: Round Duct Fan

#### **Fan Housing**

The fan housing is made of high quality galvanized steel. It is offered as electrostatic powder coated as standard.

#### **Blade**

The forward curved frequent vane impellers used in the AIR-YKF series are made of galvanized steel. The impellers are statically and dynamically balanced according to ISO 1940/1- 2003.

#### **Motor**

B insulation class is located inside the motor air flow. Micro-thermostat protection against high temperatures is available as an option.

#### **Electricity**

IP 55 electrical connection box made of plastic material is offered as standard.

#### **Accessory**

Speed Switch

## AIRONN AIR-YKF SERIES FAN LABEL


	<b>AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SAN. DIŞ TİC. LTD. ŞTİ.</b>		
<b>ORDER NO</b>	<b>AIR-042-18</b>		
<b>DEVICE CODE</b>	<b>AIR-YKF-200A</b>		
<b>PRODUCT TYPE</b>	ROUND DUCT FAN		
<b>AIR FLOW RATE (m<sup>3</sup>/h)</b>	<b>600</b>	<b>MOTOR(W)</b>	<b>95</b>
<b>STATIC PRESSURE (Pa)</b>	<b>100</b>	<b>CYCLE</b>	<b>2280</b>

Figure - 2: AIR-YKF Series Fan Label Example

## AREA OF USE

AIR-YKF Series fans are designed to supply fresh air and exhaust polluted air in manufacturing plants, warehouses, sports halls, swimming pools, large conference halls, etc. It can be mounted directly to the air ducts in any desired position.



**THE INTENDED USE OF THE MACHINE IS CLEARLY STATED IN THIS MANUAL. IT IS STRICTLY FORBIDDEN TO USE THE MACHINE FOR OTHER THAN THESE PURPOSES !!!**

AIRONN shall not be liable for any damages resulting from the use of the machine for other than its intended purpose.

The machine's operating capacity is limited to the channel dimensions on the label. AIRONN cannot be held responsible for any damages that may arise from using the machine beyond the specified capacity.

The machine is not suitable for operation in open weather conditions (rain, snow, wind, etc.). Any responsibility arising from the use of the machine in open areas belongs to the user.

Round duct fans are designed to supply fresh air and exhaust contaminated air only. AIRONN accepts no responsibility for any inconvenience that may occur if the machine is used for operations other than its function.

## PACKAGE CONTENTS

- 1 pcs AIR-YKF Series Fan
- 1 User Manual

## GENERAL NOTES ABOUT THE MACHINE

All modifications to the machine by other than authorized personnel are prohibited. The manufacturer does not allow any misuse without authorization.

**No danger, damage or any condition that may occur if the instructions in the user manual are not followed cannot be a binding reason for AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ Ltd.** The employer is obliged to provide all kinds of training and information to the user personnel in accordance with CE norms. **It is therefore obligatory that the user reads and understands this user manual before using the machine.**



### **THE MACHINE MAY ONLY BE USED BY AN AUTHORIZED OPERATOR!**

The machine complies with the necessary safety precautions at all times if the instructions given in the MAINTENANCE INFORMATION section are followed. These instructions are provided as a precautionary measure against any safety risk to personnel using the machine. **Full capacity and efficient operation of the machine is ensured only if the instructions in this manual are followed.** This manual must be kept in an easily accessible place for as long as the machine is in use and any changes and warnings made by the manufacturer must be indicated on the manual. If the machine is sold to another user, the relevant manual must be handed over.

The manufacturer does not authorize the reproduction or copying of this manual for any reason whatsoever and all rights are reserved. All illustrations and drawings in the manual are intended as a guide. The manufacturer has the right to remove, delete and modify them.

**The machine is delivered to the customer with a label with the machine identification information on it, which is nailed on the machine.**

## ABBREVIATIONS

**AIR - XXX XXX**

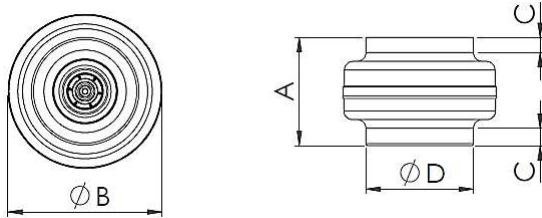
Diameter of the running impeller (mm):

**200 A, 200 B, 250 A, 250 B, 315 A, 315 B**

Type of fan:

**YKF - Round Duct Fan**

## OVERALL DIMENSIONS AND TECHNICAL SPECIFICATIONS



	A	B	D
<b>AIR-YKF 200 A</b>	214	323	198
<b>AIR-YKF 200 B</b>	214	323	198
<b>AIR-YKF 250 A</b>	249	353	248
<b>AIR-YKF 250 B</b>	249	353	248
<b>AIR-YKF 315 A</b>	270	403	313
<b>AIR-YKF 315 B</b>	270	403	313

Figure - 3: AIR-YKF Series Fan Overall Dimensions

Type	Voltage	Frequency	Motor Power	Current	Motor Speed	Condenser	Sound Level	Weight
	V	Hz	W	A	rpm	µF	dBa	kg
<b>AIR-YKF 200 A</b>	220	50	66	0.3	2300	3	66	4.2
<b>AIR-YKF 200 B</b>	230	50	100	0.47	2580	3	58	4.4
<b>AIR-YKF 250 A</b>	230	50	150	0.7	2600	4	57	5.4
<b>AIR-YKF 250 B</b>	230	50	200	0.9	2600	6	58	6
<b>AIR-YKF 315 A</b>	230	50	250	1.1	2500	8	60	6.8
<b>AIR-YKF 315 B</b>	220	50	135	0.6	1400	4	63	7.6

Table - 1: AIR-YKF Series Fan Technical Specifications



## GENERAL SAFETY INSTRUCTIONS

**\*\*This section contains safety instructions to be followed during transportation, installation, use, maintenance and scrapping of the machine.**

### WARNING LABELS ON THE MACHINE



There's an electricity



Caution



Rotating Machine Warning



Danger of the hand getting stuck



Grounding



Standing Under Load

Figure - 4: Warning labels on the machine

**\*\* These images and labels are for illustrative purposes. They may not exactly match the labels on the delivered machine.**

## **DURING TRANSPORTATION AND SHIPPING**

### ***To prevent any damage to your product during transportation;***

- When packing the product, care has been taken to ensure that it is suitable for normal transportation conditions. It should always be transported in its original packaging to avoid possible damage and loss.
- Lifting and loading must only be carried out by authorized and qualified personnel.
- It should not be kept in rain or wet environments.
- The products must be placed in such a way that they remain completely immobile in the vehicle in which they will be transported in order to avoid a possible tipping or falling situation.
- The product must be kept in its own package in such a way that it is not exposed to any vibration, dust, corrosive or chemical substances until it reaches the place where it will be installed. Do not accept products that are not in the original package or that you find opened when you receive them.
- Appropriate lifts should be used to prevent damage to the product and the people carrying it during the transportation of products with high weight.
- All necessary precautions should be taken to prevent damage caused by imprudent, rapid lifting and lowering.
- Products must be handled individually, carefully and firmly. Practices such as tossing, passing from hand to hand should be avoided.

### ***After the product has been unpacked;***

- Please check the authenticity of the product you receive.
- Check that the product has not been damaged during transportation. If there are missing or damaged part(s), the transporter and our company must be informed immediately verbally and in writing.

- The product must not be lifted by the electrical cables or junction box. Avoid situations that may damage the blades during transportation.
- During transportation, personnel must wear a hard hat, gloves and steel-toed shoes.

***Observe the following instructions during handling and transportation;***

1. Make sure that the fan is packed correctly and securely before placing it on the transport vehicle.
2. Before lifting the product, the lever should be selected according to the weights in the technical specification table. Products with excessive weight should be removed from the pallet with a forklift etc.
3. It must be ensured that the load is correctly balanced and will not slip and fall so as not to cause any work accidents.
4. After all safety conditions are met, the lifting process should be started.
5. The fan must be transported by securing it to the transport vehicle.
6. Unloading the fan from the vehicle must be carried out with the precision specified for loading.

**IT IS FORBIDDEN TO PLACE ANY MATERIAL, TOOL OR LOAD ON THE ROUND DUCT FAN!**



**\*\* AIRONN cannot be held responsible for any adverse situation that may arise during the transportation of the product.**

## DURING INSTALLATION AND PLACEMENT

***Observe the following safety instructions during installation and positioning;***

- The machine must be transported to the place where it will be used within the enterprise with appropriate vehicles and in a safe manner.
- The machine must be lowered to the ground slowly and in the correct position.
- There must be no electricity in the system during the installation process of the machine.
- Before the product connections are made, it must be ensured that the product is securely mounted on the wall, floor or in the places specified in the project. If the product is to be wall mounted, mounting brackets or clamps must be used.
- Fans are not ready for use when unpacked. The product must be connected to the special ventilation duct produced in sizes suitable for the inlet and outlet ducts and must be operated after the protection grilles are installed.
- The fan blades should be mounted 2-3 meters above the floor.
- Gloves must be worn during handling and installation.
- Fans must not be used in environments where explosive dust may be present in the duct.
- Necessary precautions should be taken to prevent backflow into the room caused by a possible gas leak (open gas pipes, other fuel burning devices, etc.).
- Before connecting the fan to the mains, check the housing for any damage. In addition, the fan impeller and suction section should be checked for foreign objects and removed if any.

- When the fans are installed in open areas where it rains, they need an additional moisture protection box. Alternatively, the fans should be installed under the sunshade to prevent rainfall on the fans.
- There should be no obstruction in the path of the air flow.
- Inlet and outlet of the products should be connected to the channel.
- The product must not be used at ambient temperatures above 40 °C.
- Fans are supplied with single-phase 220 V / 50 Hz alternating current. The label must be checked before electrical energy is supplied.
- When the machine is taken out of service, it must be transported in accordance with the handling and transportation instructions.

## DURING OPERATION

The machine described in the operating instructions has been manufactured according to appropriate principles, taking into account the law in force. The machine is equipped with the necessary technical solutions and devices to prevent any risk of accidents.

**Observe the following safety instructions during operation:**

- When the machine is in operation, personnel must not be present on the machine for any reason.
- The machine must only be used by a trained and authorized operator.
- The fan must not be operated when not connected to the ducts.
- Make sure that the protection grilles are connected before operation.
- Never touch the fan while it is running.



***IT IS STRICTLY FORBIDDEN FOR THE PERSONNEL TO CLIMB ON THE MACHINE WHILE IT IS RUNNING!***

***\*\* These prohibitions may be partially violated by trained maintenance engineers who carry out investigations on the machine to detect faults and verify the causes of anomalies.***

## DURING MAINTENANCE

During the periodic maintenance of the machine, signs with the warning phrase 'MACHINE IS IN MAINTENANCE' must be placed on the machine and in the area where maintenance is carried out. Maintenance must only be carried out by trained and competent personnel.

### ***Observe the following safety instructions during maintenance:***

- The machine must never be cleaned with water/pressurized water.
- Maintenance while the machine is in the air is dangerous and prohibited. Maintenance work should be carried out after the machine has been lowered to the ground.
- Before any maintenance work is carried out on the machine, the power must be disconnected from the main line.
- Maintenance should be carried out after the machine has come to a complete stop to avoid limb entrapment and crushing.
- Hand tools to be used during maintenance must be robust and safe, and defective or damaged equipment must not be used.
- When working with power tools (grinders, drills, etc.), personal protective equipment must be used.
- During electrical maintenance, power cables carrying energy must be replaced or repaired in such a way that they do not pose a danger to life safety.
- The work area to be maintained must be brightly lit to prevent any work accidents and to facilitate the work of the maintenance personnel.
- If there are flammable explosive materials around the maintenance area, they must be removed.



**THE MACHINE MUST BE COMPLETELY DISCONNECTED FROM THE MAINS BEFORE STARTING MAINTENANCE !**



**NEVER PERFORM MAINTENANCE OR REPAIR WORK WHILE THE MACHINE IS RUNNING!**

**\*\* During routine inspection and maintenance of some parts of the machine, it may be necessary to keep the machine running. In this case, the machine must be switched off if the engineer, maintenance person or technician leaves the machine.**



## DURING SCRAPPING

All parts of the machine are made from recyclable materials. All parts can thus be reused as raw material. No materials that may harm human health have been used in the production of the machine. At the end of its service life, the machine can be disassembled down to the smallest component and safely sent to the relevant recycling facilities.

### ***Follow the instructions below during scrapping:***

- Cutting and drilling tools to be used when the machine is disassembled into its components must be used in accordance with occupational safety rules.
- Personnel must take precautions against limb entrapment during disassembly.
- Disassembled and cut sharp-edged parts must be stored in such a position that they do not cause work accidents.
- The oil that will come out of machine components containing mineral oil, such as gearboxes, should be collected in a closed container in a way that does not harm human and environmental health and sent to the recycling facility.
- Scrap parts should be classified according to their type (iron, copper, aluminum, plastic, etc.) and sent to recycling facilities.
- No part of the machine is radioactive. Therefore, scrapped machine parts do not need to be stored in a special area.



## PRODUCT STORAGE

***Please follow the instructions below when storing the product after receipt;***

- The product should be covered with a tarpaulin to ensure that it is protected against all weather conditions.
- The product should be kept in a closed area without being unpacked until the installation time.
- General rules must be observed when transporting the product from the storage site to the installation site.
- Care should be taken to ensure that the products transported to the construction site or assembly area are not exposed to weather conditions during storage and that there is no excessive dust and dirt in the environment.
- Products must not be stacked on top of each other. Products must not be stepped on or weighed down.
- Materials such as panels, profiles, etc. that may damage the product should not lean on the product.
- The product should not be placed in areas with heavy pedestrian/vehicle traffic.
- In the construction site storage area, the product must be placed on a chock.
- The product must be stored on the pallets delivered until the moment of assembly.

**General warning;**

The product is shipped from our factory wrapped in stretch film on the pallet or in a box. If water enters between the stretch film on the product delivered to the customer or stored at the assembly site, the product faces the danger of corrosion. Since the water remaining between the product and the stretch film will have a corrosive effect on the product with the effect of the sun, the stretch film should be removed immediately, the product should be dried in natural air conditions and stretched again. If the box gets wet, the product should be immediately removed from the box and dried in natural air conditions. If the dried product can be stored in a safe and clean environment, there is no need to stretch it again.

AIRONN

## ASSEMBLY INSTRUCTIONS

- Before starting installation, make sure that there is no visible damage to the motor supply cables and that the fan wheel rotates freely.
- The arrow indicating the air flow direction on the fan must be mounted in the same way as the duct air flow direction.
- The fan should be passed into the ducts and the duct and fan should be connected to each other with screws.
- Electrical power cables must be connected to the junction box according to the electrical diagram.
- The fan should be switched on and the product checked for vibration or faults.

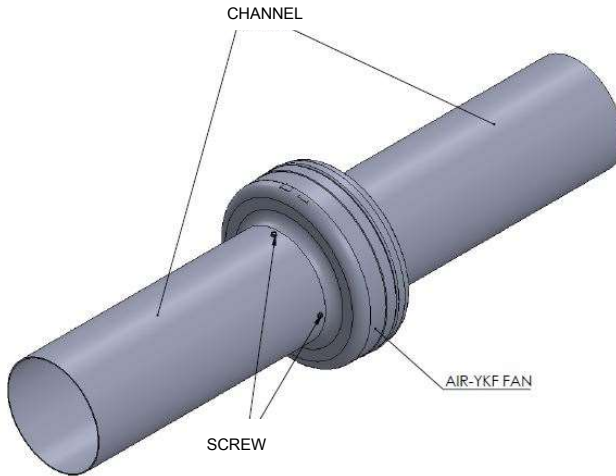


Figure - 5: AIR-YKF Series Fan Connection

## ELECTRICAL CONNECTION INSTRUCTIONS

- Before connecting the electrical cables, the existing power must be disconnected directly at the source.
- When mounting the apparatus, make sure that the mounting elements are capable of supporting the weight of the product and that all connections are made correctly.
- Before connecting the apparatus, check that the main power supply is switched off, even if the product is not in operation.
- The electrical connection information (frequency, voltage, power, etc.) indicated on the product must match the electrical connection information at the place of installation.
- For safety reasons, make sure that the grounding terminal on the terminal block is connected to the building earth line.
- Check that the overload relay and motor thermocouple are properly connected.
- In case of a possible problem, if the thermal circuit opens (when the product does not work), the system must be reset from the mains and reactivated.
- The product wiring must be as shown in the electrical wiring diagram.
- It must be connected to the fixed installation in accordance with the installation rules, together with a switch with contact disconnection on all poles.

***\*\*Users are obliged to read the operation and maintenance manual carefully before using the round duct fans.***

***The first time you start your product;***

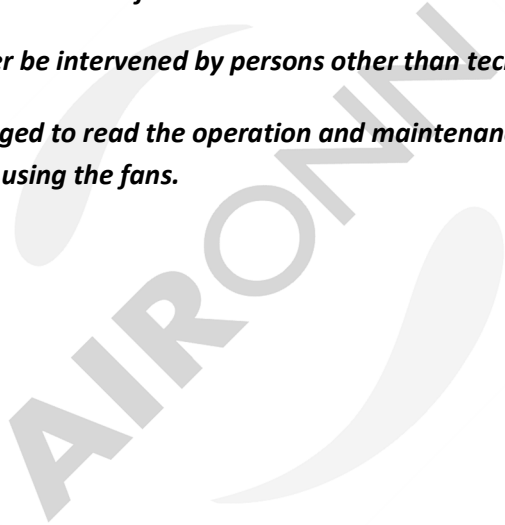
- After disconnecting the power from the source, make sure that the electrical connections of the product are made safely and correctly.
- Carefully check that the safety equipment is properly connected.
- Data cables must not be laid in the same duct with power cables. This is because power cables adversely affect the data transmitted through data cables.
- All cables must be systematically addressed and labeled with a durable material.
- All kinds of supply, power, control and measurement cables up to the panel and jumper cables between the panel modules must be reliably and tightly connected to the panel.
- Inlet and end connections of fan motors cables to motor terminal boxes must be made by using flexible cable end connections, cable ferrule and cable lug.
- Motor terminal box covers must be closed, screws and union nuts must be tightened sufficiently.
- The cables must be one piece from the supply point to the receiver and must not be spliced.
- Make sure that the grounding connections are made correctly.
- The electrical junction box and cable must be sealed correctly, securely and watertight.
- Check that there are no obstructions in the air flow path and that the air outlet direction is in the direction indicated by the label on the body.
- Ensure that the blades rotate in the correct direction.
- When the product is in operation, make sure that there is no knocking, rubbing or vibration caused by the rotation of the fan.
- The current and frequency values of the electrical supply must comply with the product labeling.

- In the unlikely event of a burnout of the electrical safety device, the mains supply must be disconnected from the mains immediately. The entire installation must be carefully checked again before the product is put into operation.
- If you encounter any problems, please contact the authorized persons.

***\*\*When the product is used continuously, in case of a possible failure, the type of failure must be determined. The technical service must be contacted to repair the malfunction.***

***\*\*It should never be intervened by persons other than technical service.***

***\*\*Users are obliged to read the operation and maintenance manual carefully before using the fans.***



# ELECTRICAL CONNECTION DIAGRAM

## SINGLE PHASE MOTOR CONNECTION

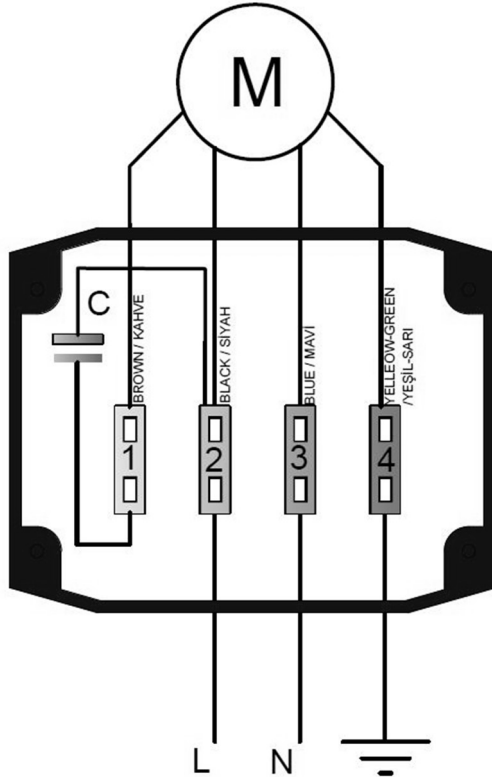


Figure - 6: Single Phase Motor Connection



## PRODUCT USE

Round duct fans are easy to use. These usage features vary according to the wishes of the users. These are;

- 1- Manual operation
- 2- Automated use

### 1-MANUAL OPERATION

With manual use, it is possible to operate the product by operating it from the pako switch or fuse. Depending on the model, the product can be used easily and safely with the 0-1 switch logic by connecting a pako switch or fuse between the electrical energy and the junction box connection on the product.

### 2-AUTOMATED USE

It is possible to control the product with a PLC. This varies according to the project in which the user will use the product. The user can use the product efficiently by utilizing sensors, using a timer, using a wireless module, using an Internet of Things method, etc. If this application is preferred, it is recommended to add the "Manual operation" method as it will be needed during maintenance.

# CARE INFORMATION

## PERIODIC MAINTENANCE

Simple abnormalities during machine start-up may require simple maintenance interventions. These interventions are simple and can be performed by the operator. More complex interventions should be carried out by trained caregivers. Other complex interventions must be carried out by the manufacturer's technical service.

Depending on the year of operation and the working environment in which the machine is located, detailed visual and functional checks should be carried out by a specialized technician at least twice a year and the remaining life of the machine should be seen. The operator can take notes of the basic parameters at regular intervals so that the life of the machine can be properly determined. However, the maintenance technician should ask the operator about general service:

- When function abnormalities increase,
- When structural or mechanical failure may occur during maintenance,
- When will the machine reach its theoretical usage limit (or has it been 10 years since the first installation?).

All maintenance, warning abnormalities or breakdowns require a long period of use between the operator and the machine. This is a non-tradable feature of maintenance, which implies risks according to the model and machine production.

Traditionally, maintenance operators are more trained and skilled than other operators. Ultimately, of all installations and procedures, it is the safety of the person that matters most.

***The following section describes the points to be considered during ordinary maintenance;***

- Before starting maintenance, signs about maintenance, warning and prohibition of electrical connection should be placed.
- Before carrying out maintenance or cleaning, check that the mains supply is disconnected from the mains, even if the product has been switched off.
- Maintenance should not be performed while mechanical organs are moving.
- All electrical equipment should be checked regularly, connections should be reviewed and damaged or worn cables and equipment should be replaced.
- To avoid contamination or deposits on the blades and motor, maintenance must be carried out taking into account the operating conditions of the product. Failure to do so may shorten the service life of the product or cause a hazard.
- When cleaning the product, care must be taken not to disturb the balance in the blade and turbine.
- Check the tightness of bolts that may loosen during maintenance.
- Parts that are not in suitable condition must be replaced immediately.
- When cleaning the product, flammable and combustible cleaners should not be used, it should be cleaned by wiping with a damp cloth.
- The product must never come into direct contact with water or pressurized water.

***\*\*AIRONN assumes no responsibility for malfunction and personnel safety due to any reason contrary to this manual.***

**\*\*Electrical maintenance of the machine must be carried out regularly in daily, weekly, monthly and semi-annual periods by trained specialized personnel.**

## **POSSIBLE MALFUNCTIONS AND ELIMINATION**

ANORMAL SITUATION	PROBABLE CAUSE	CORRECTIVE ACTION
EXCESSIVE SOUND (NOISE)	ROTOR INSTABILITY	REPLACE THE ROTOR
DEVICE IS NOT WORKING	MOTOR DAMAGED	REPLACE THE MOTOR
	CONDENSER IS NOT WORKING	REPLACE THE CONDENSER
	ERRONEOUS SPEED ADJUSTMENT CONNECTION	CHECK INSTALLATION
DEVICE TURNS SLOWLY	FAULTY CONNECTION	CHECK THE ELECTRICAL CONNECTION

Table - 2: Possible Failures and Elimination

## WARRANTY CERTIFICATE

MANUFACTURER OR IMPORTER COMPANY	
TITLE	AIRONN HAVALANDIRMA ve KLİMA SİSTEMLERİ SAN. ve DIŞ TİC. LTD. STİ.
ADDRESS	Tatlısu Mah. Şenol Güneş Bulvarı Mira Tower Kat:3 D:16 Şerifali / İstanbul
TEL / FAX	(0216) 594 5696 / (0216) 594 5717
SIGNATURE AND STAMP OF THE AUTHORIZED PERSON OF THE COMPANY	
SELLER COMPANY	
TITLE	
ADDRESS	
TEL / FAX	
INVOICE DATE and NO	
SIGNATURE AND STAMP OF THE AUTHORIZED PERSON OF THE COMPANY	
PRODUCT'S	
TYPE	FAN
BRAND	AIRONN
MODEL	
BANDEROL and SERIAL NO.	
DELIVERY DATE and PLACE	
MAXIMUM REPAIR TIME	20 BUSINESS DAYS
WARRANTY TERM	2 YEARS
CUSTOMER'S	
NAME AND SURNAME	
ADDRESS	
PHONE NUMBER	