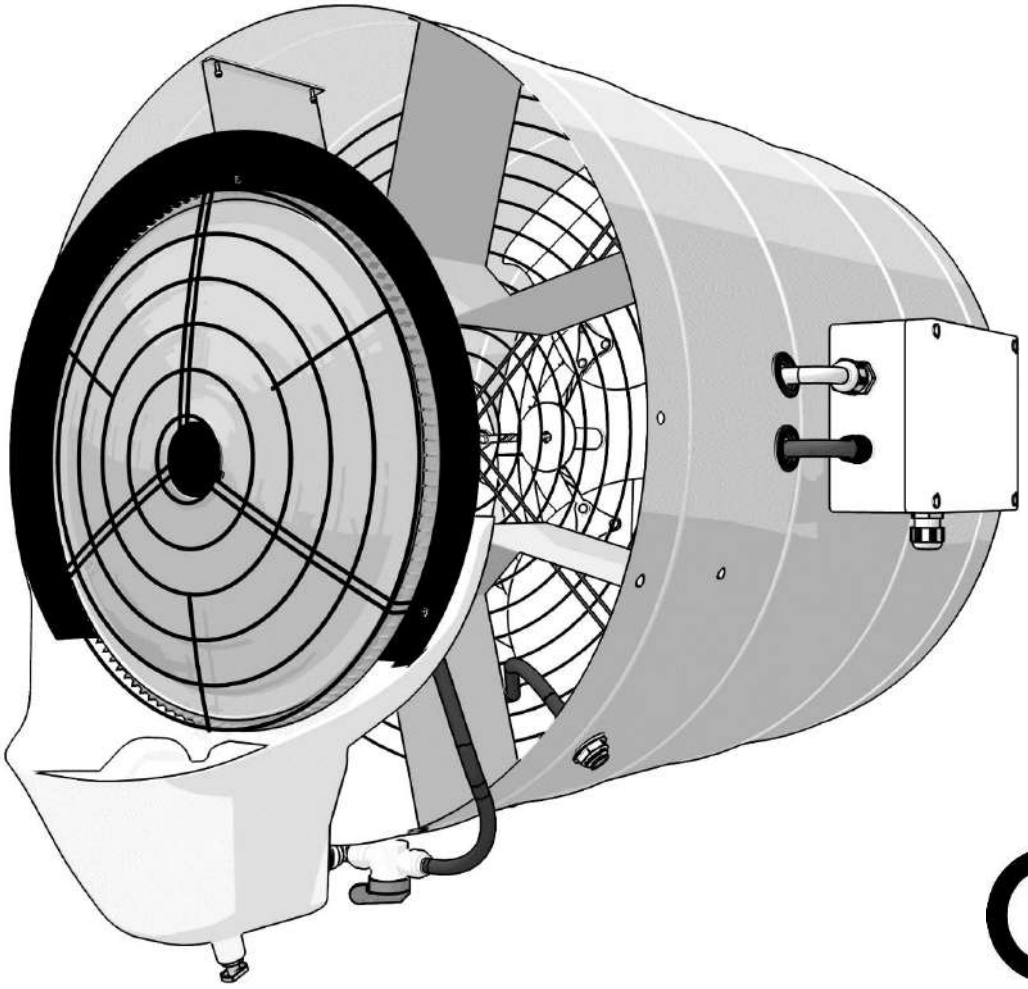
FRANCO

INSTRUCTION MANUAL FOR USE AND MAINTENANCE

UX

COOLER
HUMIDIFIER



CE

TRANSLATION OF ORIGINAL INSTRUCTIONS

ENGLISH

Read this manual carefully before
installing and operating the machine

Rev. 00/2022

Franco s. r. l. - Via Nazionale, 80 - 12010 Cervasca (CN)

INDEX

1 - INTRODUCTION

1.1 General safety instructions

This appliance must only be used for the function for which it was designed: "Adiabatic humidifier/cooler". Any other use is to be considered improper and dangerous. Franco s.r.l. cannot be held responsible for any damage resulting from improper, incorrect and unreasonable use or if the appliance is used in installations which do not comply with the safety regulations in force.

- Check the integrity of the appliance when you open the packaging, paying particular attention to the presence of damage or deformation to the plastic parts which may lead to breakage and/or malfunction during use. In such cases, do not connect the machine to the mains power supply. Periodically carry out a general inspection of the machine.

- Before connecting the appliance, make sure that the data on the rating plate correspond to those of your electricity distribution network. The data label (see par. 1.9) is located on the side of the appliance.

- Comply with the safety rules indicated for electrical equipment, and in particular:
- Follow the installation instructions of the appliance.
- Do not place objects on the humidifier.
- Prevent children and/or incapacitated persons from using the device without proper supervision;
- Do not touch the humidifier during operation or while the disc is stopped;
- Never immerse the appliance in water or any other liquid.
- Do not place any objects inside the tub as this could cause irreparable damage to the appliance.
- Do not use accessories, spare parts or components not intended for or supplied by the manufacturer.
- Avoid touching the device with wet or damp hands
- Do not pull on power cables or expose them to risk of shearing.
- Do not leave the appliance exposed to the weather (rain, sun, etc.).
- In the event of a fault or malfunction of the appliance, switch it off immediately and disconnect the power supply. Do not attempt to open or tamper with the appliance: contact a qualified technician.
- Do not attempt to fill or empty the tank when the appliance is in operation.

1.2 Guidelines for the correct disposal of the product

Pursuant to European Directive 2012/19/EU:
At the end of its useful life, the product must not be disposed of with municipal waste.
It can be handed in at the separate waste collection centres set up by the municipalities, or at retailers who provide this service. Disposing of the product separately avoids possible negative consequences for the environment and for health deriving from its improper disposal and allows the materials of which it is composed to be recovered in order to obtain significant savings in energy and resources. To emphasize the obligation to dispose of electrical and electronic equipment separately, the product is marked with a crossed-out wheeled bin.

1.3 Conventions used in this manual

The manual is divided into chapters, within which the operators to whom the instructions are addressed are specified, where necessary, in order to operate the machine safely.
The sequence of chapters responds to the temporal logic of the machine's life.
To facilitate immediate understanding of the text, terms, abbreviations and pictograms are used, the meaning of which is indicated below.

ABBREVIATIONS
Cap. = Chapter
Par. = Paragraph
Page = Page
Fig. = Figure
Tab. = Table

UNITS OF MEASUREMENT
The units of measurement used are those of the International System (SI).

1.4 Keeping and updating the instruction manual

The instruction manual must be kept with care and must accompany the machine at all times during its life. Parts must not be removed, torn or arbitrarily modified.
The manual should be stored in an environment protected from moisture and heat and in the immediate vicinity of the machine to which it relates. At the request of the user, the manufacturer can supply additional copies of the machine instruction manual.
You can make a request by writing to **support@francosrl.com**

The Manufacturer reserves the right to modify the design and make improvements to the machine without informing the Customers, and without updating the Manual already delivered to the user. However, in the event of changes to the machine installed at the Customer's premises, agreed with the Manufacturer and entailing the amendment of one or more chapters of the Instruction Manual, it will be the Manufacturer's responsibility to send the users concerned the chapters affected by the change.
It is the responsibility of the User to replace the old chapters, the start page and the table of contents with the new ones in all copies owned.

The Manufacturer is responsible for the **original version in Italian**; in the event of any doubts regarding the translated versions, please refer to the Italian language and contact the Manufacturer (support@francosrl.com) for due verification.

1.5 Target readers

This manual is intended for the installer, the operator and qualified personnel authorised to service the machine.
OPERATOR: means the person or persons responsible for installing, operating, adjusting, cleaning, repairing and moving machinery and for carrying out the simplest maintenance operations;
QUALIFIED PERSONNEL/QUALIFIED WORKERS: these are people who have attended specialised courses, training, etc. and have experience in the installation, commissioning and maintenance, repair, transport of the machine.

The machine is intended for industrial use, and therefore professional and not general use, so its use must be entrusted to **qualified personnel, in** particular who:

- have reached the age of majority;
- are physically and mentally fit to carry out work of particular technical difficulty;
- have been properly instructed in the use and maintenance of the machine;
- have been judged by the employer to be suitable for the task;
- are able to understand and interpret the operator's manual and safety instructions;
- are familiar with emergency procedures and their implementation;
- have the ability to operate the specific type of equipment;
- are familiar with the specific rules of the case;
- have understood the operating procedures defined by the machine manufacturer.

The appliance may be used by persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, provided that they are supervised or have received instructions concerning the safe use of the appliance and an understanding of the hazards involved.

1.6 Pictograms

This section explains the meaning of the pictograms indicating the operator's qualification, the state of the machine, the hazards and the obligations/prohibitions to be respected. Their use makes it possible to provide rapid and unambiguous information necessary for the correct and safe use of the machine.

PICTOGRAMS RELATING TO OPERATOR'S QUALIFICATION

Symbol	Description
	**General labourer**: operator without specific skills, able to carry out only simple tasks on the instructions of qualified technicians.
	**Driver of lifting and handling equipment**: an operator qualified to use lifting and handling equipment and machines (strictly following the manufacturer's instructions), in accordance with the laws in force in the country of the machine user.
	**Mechanical maintenance** technician: qualified technician, able to operate the machine under normal conditions, to make it work with protections disabled, to intervene on the mechanical parts to make the necessary adjustments, maintenance and repairs. Typically, he is not qualified to work on live electrical installations.
	**Electrical maintenance** technician: qualified technician, able to operate the machine under normal conditions, to run it with protections disabled, is proposed to all interventions of an electrical nature for adjustment, maintenance and repairs. He is able to work in the presence of voltage inside cabinets and junction boxes.
	**Manufacturer's technician**: a qualified technician made available by the manufacturer to carry out operations of a complex nature in particular situations or, in any case, as agreed with the user. The skills are, depending on the case, mechanical and/or electrical and/or electronic and/or software.

SAFETY PICTOGRAMS (ISO 7010)

Pictograms contained within a triangle indicate DANGER.
Pictograms contained within a circle impose a PROHIBITION/OBBLIGATION.

Pictogram	Description
	Dangerous electrical voltage.
	General danger.
	Do not remove safety devices.
	It is forbidden to clean, oil, grease, repair or adjust moving parts by hand.
	Obligation to switch off power before starting work or repairs.
	Protective gloves are mandatory.
	Compulsory safety footwear.
	Helmet compulsory.

1.7 Applications

The UX consists of a centrifugal humidifier and a high-flow air circulator, which can be operated separately for maximum flexibility of use.

The machine can be used in all applications where it is necessary to maintain a certain humidity level inside large spaces in industrial, agricultural and livestock premises.

In addition to **humidification** and air **circulation**, the UX can also be used as an adiabatic **cooler**. This is possible because the atomised water in contact with the ambient air tends to evaporate, removing heat and lowering the temperature. The cooling capacity depends on many variables, such as temperature, ambient humidity and air distribution.

The water pressure required is that of the water mains: 2-4 atm (0.2 - 0.4 MPa).

This machine must only be used for the purpose for which it was designed:

HUMIDIFICATION / ADIABATIC COOLING

All other uses are improper and potentially dangerous.

CE

1.8 Versions

The UX centrifugal humidifier is available in the following versions:

1908020	UX56-T	6700 m³/h	400V 3~N 50Hz	890 rpm
1908030	UX56-M	6600 m³/h	230V~ 50Hz	1300 rpm
1908040	UX71-TT	15500 m³/h	400V 3~N 50Hz	900 rpm
1908050	UX71-TS	11000 m³/h	400V 3~N 50Hz	670 rpm

1.9 Machine identification and number plate data

Each machine is identified by an EC dataplate on which the article code, serial number and technical data of the machine are indelibly marked (Fig. 1.9.1).
Always quote these references for any communication with the manufacturer or service centres.

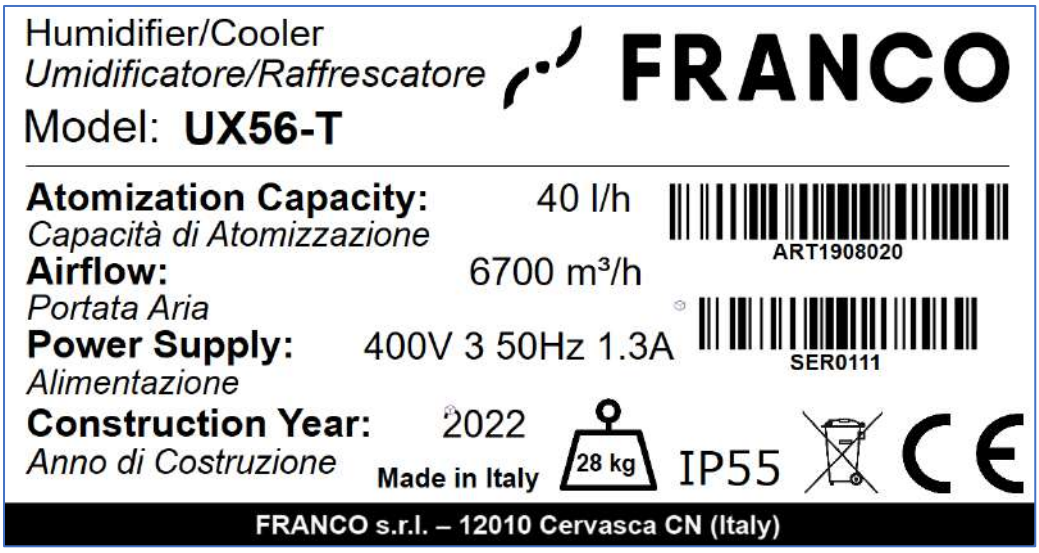
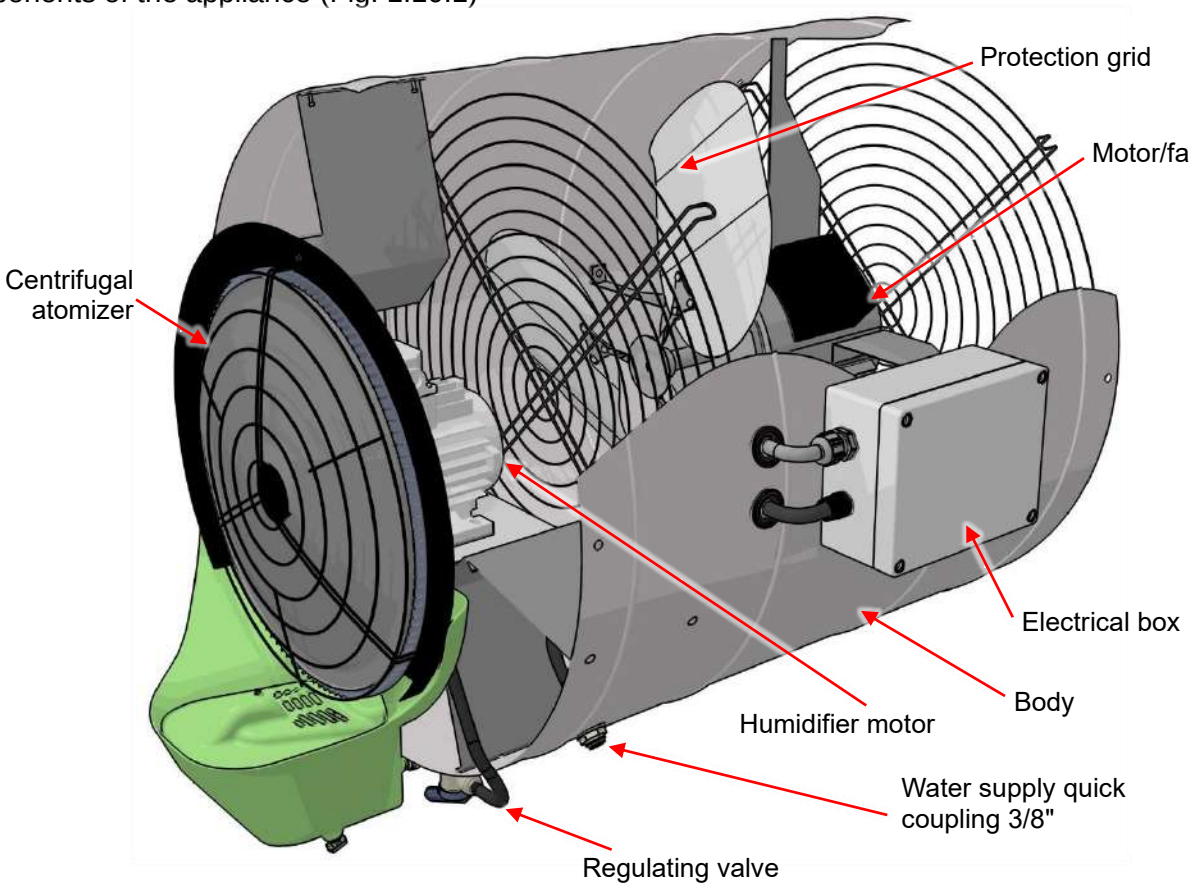


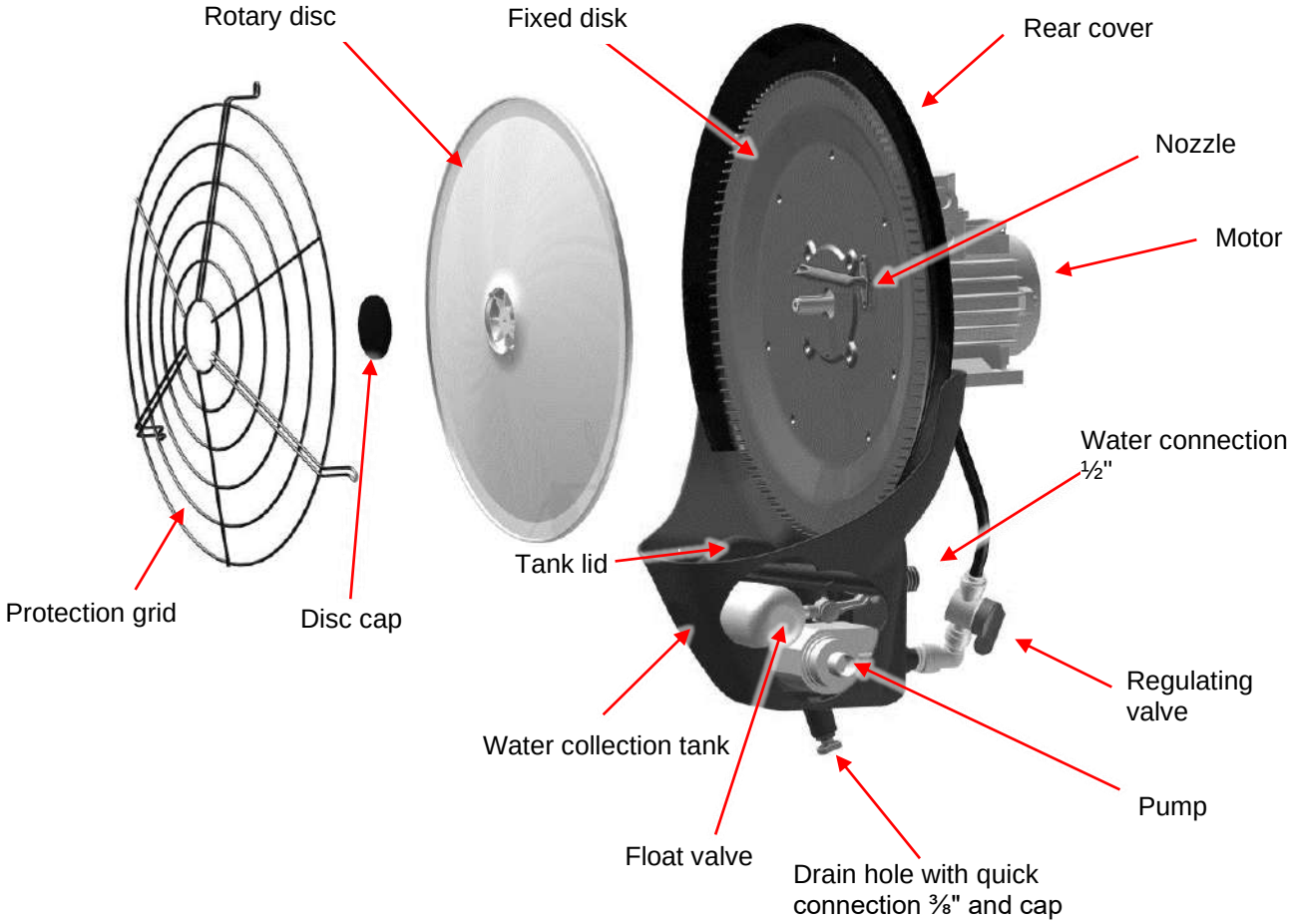
Fig.1.9.1 CE dataplate

1.10 Description of equipment

Components of the appliance (Fig. 1.10.1)



Components of the centrifugal humidifier (Fig. 1.10.2)



1.11 Transport and handling

The machine is packed in robust carton boxes.
Take great care when opening the packaging to avoid damage to components. Check the integrity of the machine by checking that there are no visibly damaged parts. Do not dispose of the packaging elements in the environment: they must be placed in special collection areas.
The UX can be raised and suspended using the fixing plate provided.

ATTENTION! Before making any moves:

a. stop the machine;
b. interrupt the power supply;
c. interrupt the water supply.

Use suitable lifting gear to lift the machine. The weight is indicated on the nameplate and in the technical data table (see section 5.1). Lift the machine carefully, positioning the lifting straps appropriately.

1.12 Warranty

This appliance is guaranteed for months12 from the date of manufacture for all faults attributable to a proven manufacturing or material defect. The warranty does not cover all parts damaged by transport, bad or incorrect maintenance, neglect, inability to use, improper use, tampering by unauthorised personnel and in any case by causes beyond the control of Franco s.r.l. of Cervasca (CN). During the warranty period, Franco s.r.l. undertakes to supply, free of charge, those parts which prove to be defective at origin. The intervention must be carried out by an authorised and qualified technician.

1.13 Manufacturer's identification data

Manufacturer
FRANCO s.r.l.

Legal - administrative headquarters
VIA NAZIONALE, 80 - 12010 CERVASCA (CN) - ITALY

Contact
Tel.: (0039) 0171 - 61.16.63
Email: support@francosrl.com
Web: francosrl.com

1.14 Statements

The machine to which this manual refers is manufactured in accordance with the relevant European Community legislation applicable at the time of its placing on the market.
The machine is not included among those mentioned in Annex IV of Directive 2006/42/EC.

1.15 EC Declaration of Conformity

THE MANUFACTURER

FRANCO s.r.l.		
Company		
Via Nazionale, 80	**12010**	**CN**
Address	*Postcode*	*Province*
Cervasca	**Italy**	
City	*Country*	

DECLARES under its own responsibility that the machine

Humidifier / Cooler	**UX56-T; UX56-M; UX71-TT; UX71-TS**
Description	*Model*

1908020; 1908030; 1908040; 1908050
Article number

UX Humidifier / Cooler
Trade name

Humidification/Adiabatic cooling
Intended use

complies with the following European Directives:

2006/42/EC	Machinery Directive
(2014/35/EU)	(Low Voltage Directive)
2014/30/EU	Electromagnetic Compatibility Directive

Harmonised standards and reference specifications used:

EN 12100:2010
EN 60335-1:2012 + A11 +A13 +A1 + A14 + A2 +A15:2021
EN 60335-2-98:2003/A11:2019
EN 60335-2-41:2003/A2:2010
EN 60034-1:2010
EN 55014-1 :2017, EN 55014-2:2015, EN 61000-6-1:2016, EN 61000-6-3:2010

Legal entity authorised to establish the Technical File:

FRANCO s.r.l.		
Name		
Via Nazionale, 80	**12010**	**CN**
Address	*Postcode*	*Province*
Cervasca	**Italy**	
City	*Country*	

Place and date of document

Cervasca, 10/02/2022

Rev. 00/2022

The manufacturer
Signature

Marco Fantino
Administrator

2 - INSTALLATION

2.1 Preliminary operations

To operate the UX humidifier, you need:

- Electrical network with voltage and frequency characteristics suitable for the machine, with earthing and protective devices;
- Water supply connection: required pressure 2- 4 atm (0.2-0.4 MPa);
- Ambient temperature during operation: between 1°C and 40°C
- Temperature of the water and liquids used: must not exceed 35°C.
- Drinking water with low fixed residue, or treated water. The quality of the water affects the frequency of maintenance operations and the correct functioning of the humidifier.
- It is recommended to provide a timed control for draining the tank with a bleed-off function to keep the machine in optimal operating conditions.

The installation must comply with the applicable European, national and local standards in force. In particular, follow the requirements of standard UNI 8884 "Characteristics and treatment of water in cooling and humidification circuits" where conductivity must be less than 100 µS/cm and total hardness less than 5° fH (50 ppm $CaCO_3$) or another equivalent national standard.

2.2 Positioning

The UX humidifier must be installed in **a horizontal position**, with the water collection tank at the bottom, raised off the ground.
Use the eyelets provided to hang or support the machine while keeping it in the working position with a suitable hanging system (chains, ropes, etc., Fig. 2.2.1.).
The fixing must be stable.

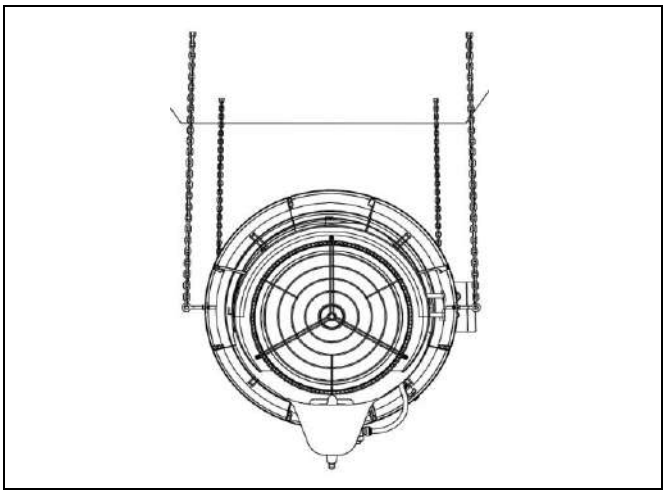


Fig. 2.2.1

The UX must be positioned respecting the minimum recommended distances that allow correct operation of the machine and maintenance when necessary. Depending on the type of installation chosen, choose the most suitable position for humidification/cooling of the room.
To prevent condensation, maintain a distance of at least 1m from the ceiling and the surrounding walls (Fig. 2.2.2) while the distance from the wall in front of the machine should be determined according to the model chosen and the amount of sprayed water.

Depending on the type of installation, different types of front protection must be used (Fig. 2.2.2):

- installation at a **height > 2.5m** above the walking surface: use the **wide** pitch front protection grille (30mm, code 1801031) supplied as standard.

- installation at a **height < 2.5m** from the walking surface: remove the wide pitch grille and fit the front **fine** pitch (10mm) protection grille code 1801030 available as an accessory. For fixing, use the 3 screws 4.2x9.5 code 6002004 supplied as standard.

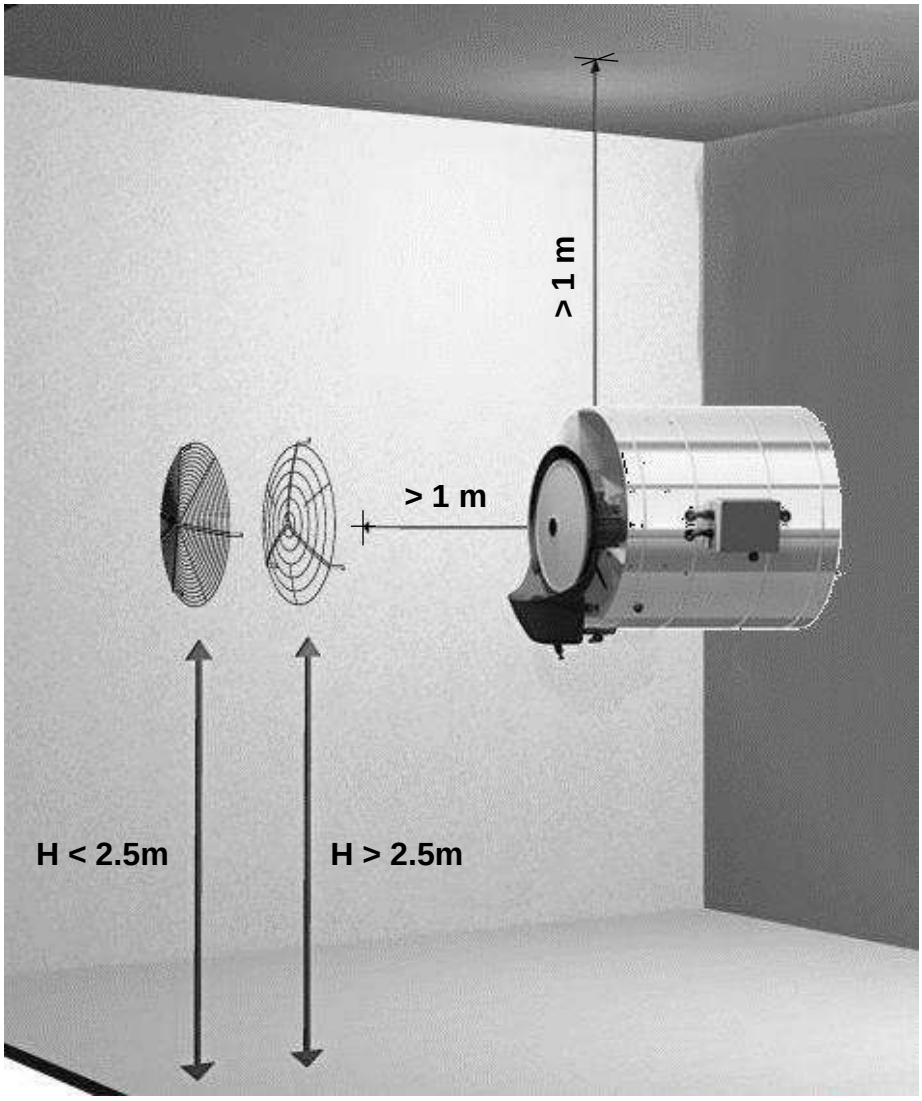


Fig. 2.2.2

Do not remove the protective devices. Respect the safety distances from moving parts prescribed by the UNI EN ISO 13857:2008 standard. Any maintenance or repair operations requiring the removal of protections must be carried out exclusively by qualified personnel, after having stopped the machine and disconnected the power supply.

2.3 Electrical connections

- Electrical connections must be made by authorised and qualified technicians in accordance with regulations in force.
- Ensure that the supply voltage characteristics comply with the information on the data plate of the appliance.

- **It is mandatory to connect the appliance to an efficient earth line.**

Provide a separate power supply for the humidifier motor and the fan motor, using cables of appropriate cross section, to be connected to the terminal block, referring to the technical data and the wiring diagram (see Chapter 5). We recommend the use of a humidistat or thermostat to control the automatic start and stop of the machine depending on the humidity or ambient temperature; alternatively, for manual control

of the machine, the humidifier and the fan can be operated separately, e.g. by providing two external switches in the system.
In any case, an omnipolar disconnection device for the appliance from the mains supply must be provided in the installation. It is also advisable to install a protection fuse of the delayed type for motor starting.

2.4 Hydraulic connections

Make the connections to the water supply and drainage lines at the points provided. (Fig. 2.4.1):

- Quick water inlet connection for connecting a Ø 3/8" hose.
- Quick-connect drainpipe with cap for connection of a Ø 3/8" hose.
  A specific accessory (Fig. 2.4.1) is available for the direct connection of a hose by means of a hose barb.

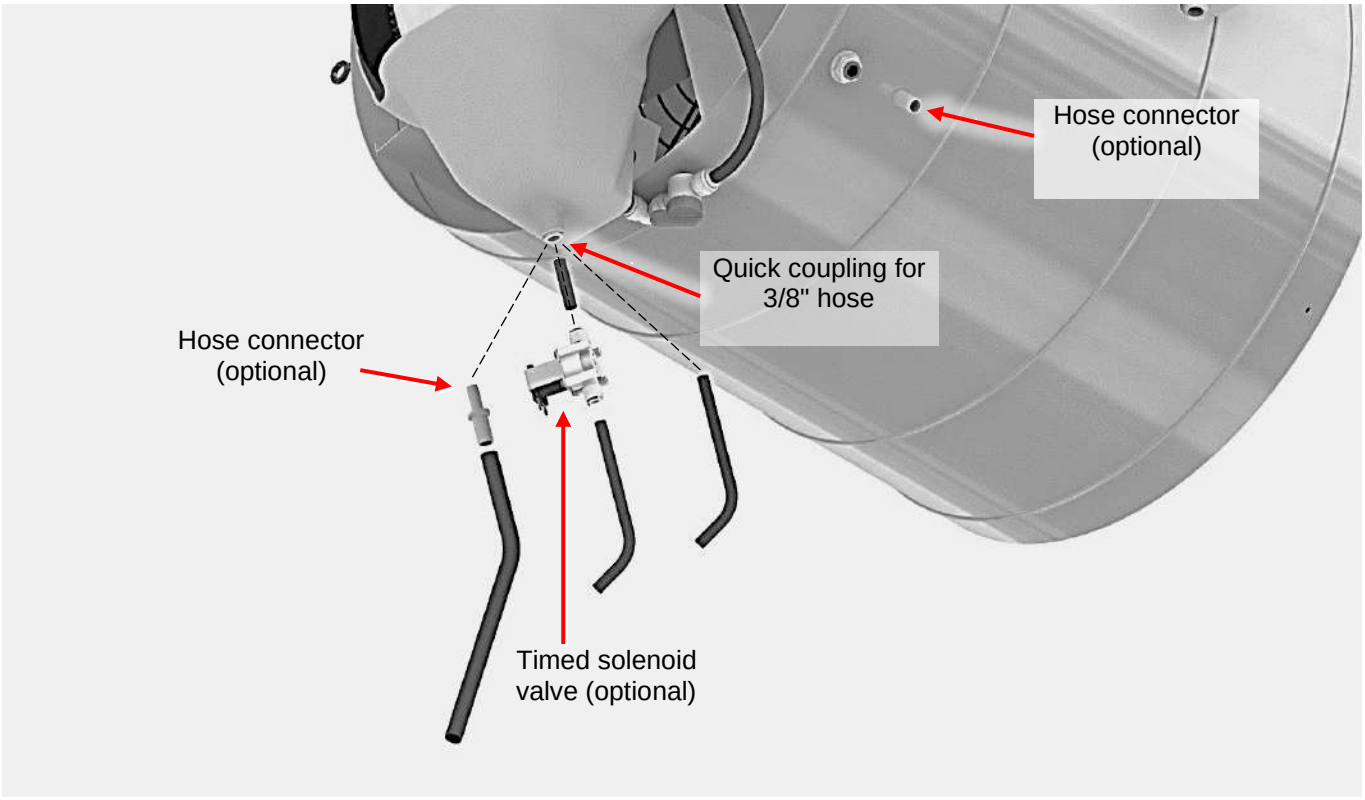


Fig. 2.4.1

To arrange for periodic draining of water from the tank (**bleed-off**):

a) remove the drain plug by pushing up the stop ring. This operation can be facilitated by using a 10 mm hexagonal spanner.
b) connect a flexible hose to the discharge pipe, either directly or via the hose connector available as an accessory (see Fig. 2.4.1) and provide a suitable shut-off device (e.g. tap, timed solenoid valve, etc.) which must be normally closed during operation.

3 - OPERATION

3.1 Preliminary operations

Before operating the humidifier, check that:

- All connections, both electrical and hydraulic, have been made according to the instructions in this manual;
- The humidifier is free and clean;
- The water supply tap is open.

3.2 First start-up

- Check the correct direction of the air flow and the direction of rotation of the disc (Fig. 3.2.1);
- Ensure that all cables are correctly positioned and that they are not pinched or pulled too tight;
- Ensure that the hydraulic connections have been made correctly;
- Open the water supply tap and check that there are no leaks along the circuit.

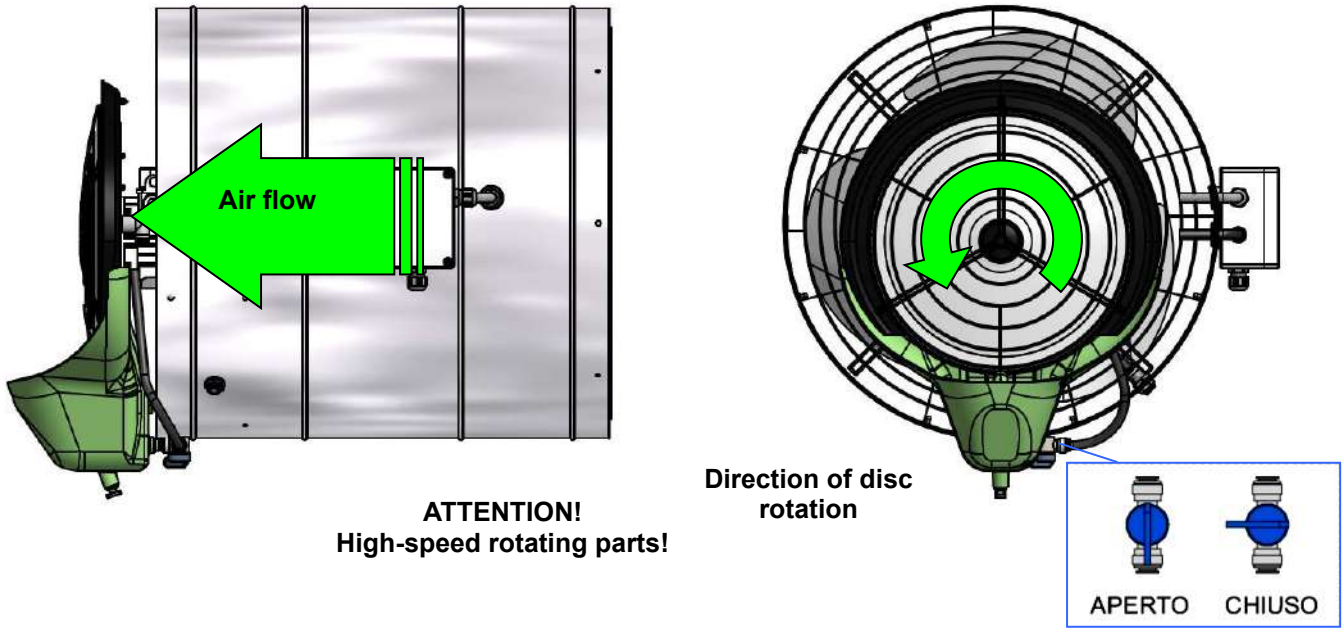


Fig. 3. 2.1- Initial start-up checks

The pump must never run dry (without water)
The temperature of the liquids used must not exceed 35°C

3.3 Start-up

Humidification/cooling mode: supply power to the humidifier motor, pump and fan motor. The pump circulates the water to the rotating disc, which nebulises it, and the fan generates a flow of air which distributes the mist produced by the humidifier throughout the room. In case of a malfunction during operation, please refer to Chapter 6 "Troubleshooting".
Ventilation mode: the unit operates as an air circulator, the pump and humidifier motor are not powered.

Attention: in humidification/cooling mode, the fan must always be running at the same time as the humidifier, to allow the distribution of the mist produced in the room and to avoid malfunctioning of the appliance.

3.4 Adjusting the water flow rate

Adjust the water flow rate by opening the ball valve until you get a fine atomization without droplets being dragged by the rotating disc (Fig. 3.2.1). Centrifugal humidifiers produce droplets with an average size of between 10 and 30 μm. The size of the droplets produced depends on the setting of the flow rate and various environmental factors.
The UX is capable of atomising up to a maximum of 40 l/h of water. An excessive water flow could result in an increase in droplet size and adversely affect the fog quality.

4 - MAINTENANCE

The operations described in this chapter must only be carried out by authorised and qualified personnel, using suitable personal protective equipment. Before carrying out any work, disconnect the appliance from the electricity and water supplies.

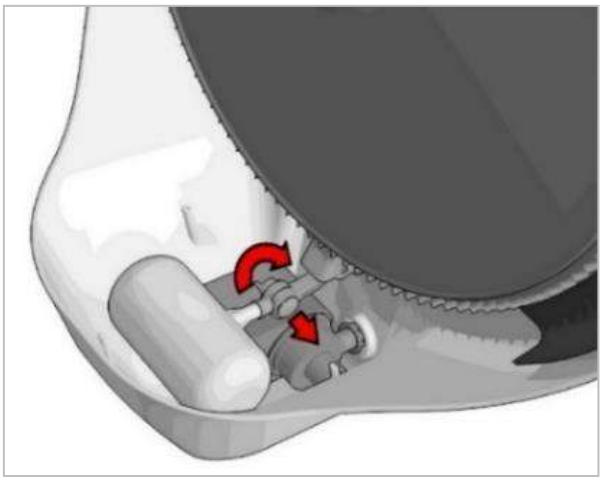
Check periodically that the water flow rate to the centrifuge is correct. Adjust the flow regulator if necessary. Keep discs, tank and internal components clean to prevent dirt build-up.

4.1 Cleaning the disc

- Keep the disc clean to prevent limescale build-up or dirt accumulation that could cause increased vibration or coarse spraying.
- To clean the rotating disc, use a soft, damp cloth and a non-toxic, solvent-free cleaning agent, wiping without applying excessive pressure.
- **Do not use solvents.**
- The fixed disk should be cleaned with a brush with stiff bristles, gently rubbing the teeth care not to damage them. Any limescale deposits can be removed with vinegar, lemon or another specific non-toxic, solvent-free product.

4.2 Cleaning the tank

ATTENTION!
Stagnant water can cause the growth of harmful bacteria and microorganisms. It is therefore necessary to prevent stagnation.
As well as for safety reasons, regular water renewal is also necessary to keep the appliance clean and free from limescale, mould, etc. It is therefore recommended to provide a periodic automatic or manual drainage system for the water collection tank. It is therefore recommended that the water collection tank be periodically drained, either automatically or manually.
If the machine is only used occasionally, empty the tank after each use. Never leave water in the tank when the machine is not in use.



Inspect and clean the water collection tank periodically.

- To access it, unscrew the two screws on the cover and pull gently on the catch.
- To facilitate cleaning: remove the float and the pump.
- To remove the float: unscrew the plastic wing nut of the float arm (see Fig. 4.2.1).
- To remove the pump: use a hex 13 spanner to hold down the stop ring in which the pump is fitted and pull the pump gently out until it is removed.

- After these operations, clean the inside of the tank with a cloth or sponge, rubbing gently on the walls **Do not use solvents.**
- Periodically check the operation and cleanliness of the pump and float. Every 2-3 months wash the internal parts of the pump with lukewarm water.

Fig. 4.2.1

4.3 Replacing and cleaning the pump

To replace the pump, proceed as follows:
- Unscrew the two cover fixing screws using a Phillips screwdriver and remove the cover.
- Unscrew the plastic wing nut from the float arm. Hold down the stop ring in which the pump is fitted with a fixed spanner (hex 13) and gently pull the pump out.
- Remove the pawl from the outlet of the removed pump and fit it to the new one.
- Repeat the sequence in reverse, taking care to reposition the float so that the water level inside the tank completely covers the pump.

The pump does not require any special maintenance. It may be necessary, depending on the quality of the water used, to periodically clean the internal rotating parts. In this case:
- Disconnect the pump as described above.
- Turn the swivel spout to the unlocked position and remove it.
- Remove the rotor and impeller and clean them with lukewarm water and a brush. Any limescale deposits can be removed with vinegar, lemon or special products. Do not use solvents.
- Refit the nozzle and reconnect the pump.

4.4 Replacing the rotating disc

- Remove the front protection grid, if present, by unscrewing the 3 fixing screws.
- Remove the central cap of the rotating disc inserting a small flat screwdriver into the slot and pushing it out (Fig. 4.4.1).
- Using a screwdriver key (hex 7), loosen the M4x16 screw fixing the rotating disc to the motor shaft and its washer (Fig. 4.4.2).

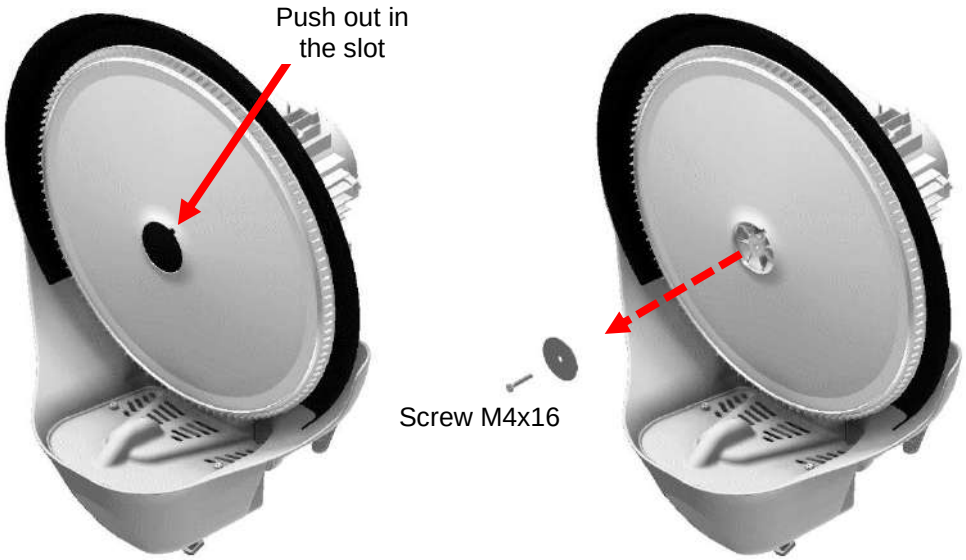


Fig. 4.4.1 Fig. 4.4.2

- Insert the M8x40 screw supplied with the machine into the central hole of the rotating disc (Fig. 4.4.3)

- Use a screwdriver (hex 13) to tighten the screw, which will push out the disc effortlessly as it enters the hole. (Fig. 4.4.4)

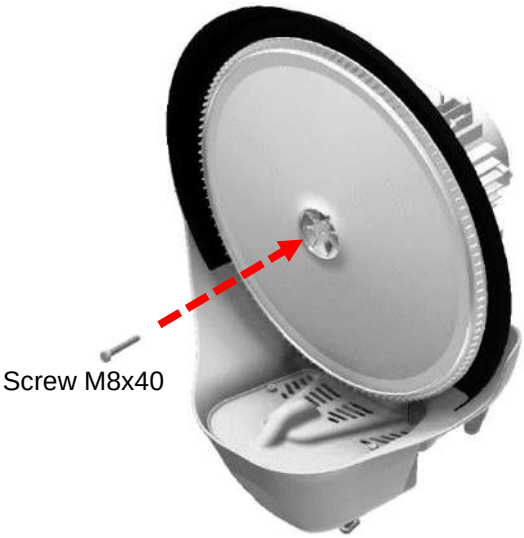


Fig. 4.4.3

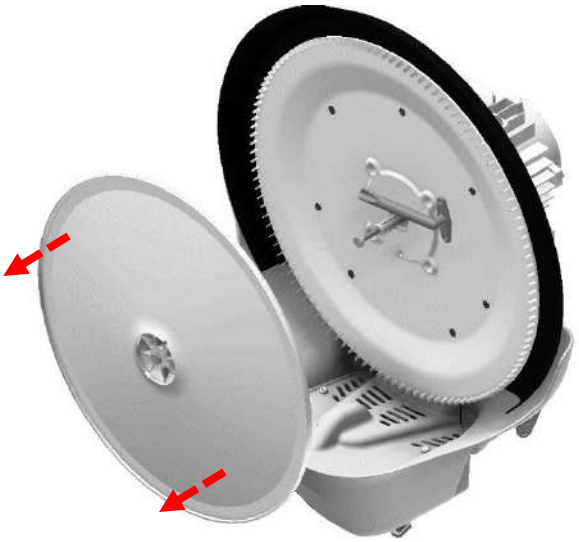


Fig. 4.4.4

- Once the disc has been removed, remove the M8x40 screw by unscrewing it from the rotating disc.
- Apply a small amount of grease to the crankshaft and fit the new disc, making sure the keys are aligned and pressing on the centre, without tapping or forcing. Replace the washer, M4 screw and plug. Check that the 4 mm thick spacer (see section 5.3 "Spare parts list" item 5) is correctly positioned between the fixed and rotating discs.

4.5 Replacing the float

- Disconnect the water supply and remove any fittings from the ½" connection on the machine.
- Remove the two cover screws using a Phillips screwdriver and remove the cover.
- Unscrew the plastic ring nut and remove the float body.
- Position the new float switch and adjust it so that the water level inside the tank completely covers the pump.
- Reassemble the assembly by repeating the sequence in reverse.

4.6 Replacing the nozzle

- After removing the rotating disc (see section 4.4), remove the nozzle by unscrewing the two fixing screws.
- Push the grey ring on the elbow connector at the rear of the disc and, while holding it down, pull the nozzle to be replaced.
- Position the new nozzle by repeating the sequence in reverse.

4.7 Accessories

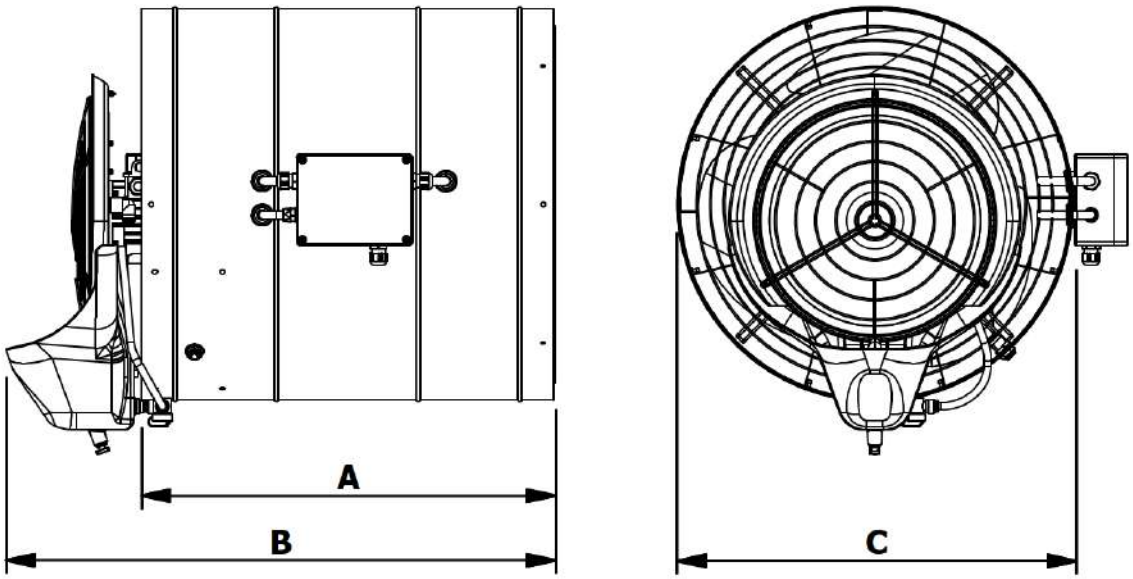
A complete range of accessories that can be combined with your UX, such as protection grids, electronic humidity regulators, thermostats, timed drainage and cleaning systems, electrical wiring and plumbing accessories, is available on request.
Ask your supplier for the accessories catalogue for more details.

5 - TECHNICAL CHARACTERISTICS

5.1 Technical data

General features					
		UX56-T	**UX56-M**	**UX71-TT**	**UX71-TS**
Air flow rate	m³/h	6700	6600	15500	11000
Atomisation capacity	l/h	up to 40	up to 40	up to 40	up to 40
IP rating		IP55	IP55	IP55	IP55
Weight	kg	28	28	48	48
A	mm	600	600	800	800
B	mm	800	800	1060	1060
C	mm	564	564	715	715
Noise level	dBA	75	75	82	73
Electrical characteristics					
Humidifier motor					
Power	W	180	220	180	180
Voltage	V	400 3~50Hz	230~50Hz	400 3~50Hz	400 3~50Hz
Current	A	0,5	1,4	0,5	0,5
Fan motor					
Power	W	330	450	800	690
Voltage	V	400 3~50Hz	230~50Hz	400 3~50Hz	400 3~50Hz
Current	A	0,8	2,3	2,2	1,4
Rotation speed	rpm	890	1300	900	670
Pump motor					
Power	W	14	14	14	14
Voltage	V	230~50Hz	230~50Hz	230~50Hz	230~50Hz

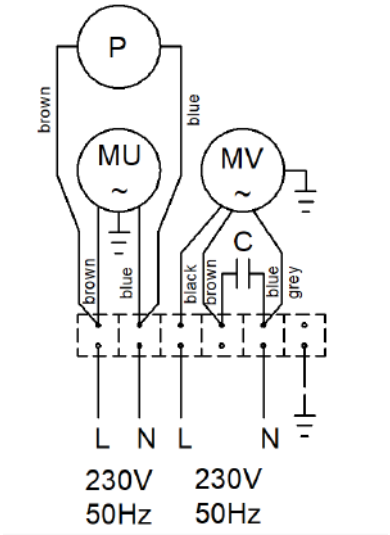
5.2 Overall dimensions



5.3 Electrical diagrams

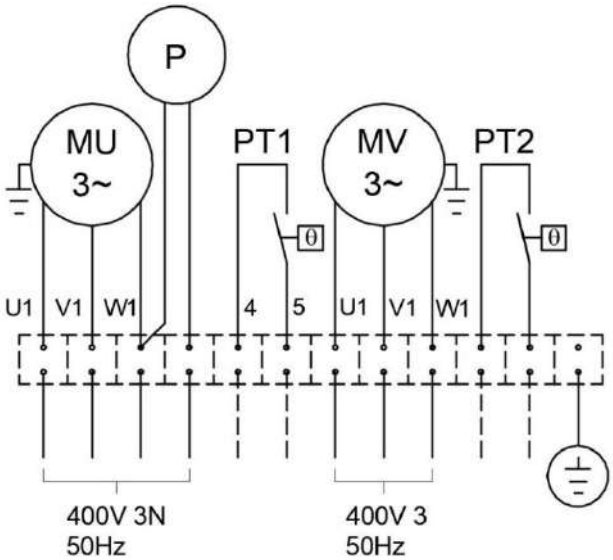
Ensure that the electrical supply voltage matches the dataplate voltage.
Use cables with an appropriate cross-section for the rated current of the appliance.
Install a thermomagnetic differential circuit breaker in the power circuit upstream of the equipment.
Single-phase version: the humidifier motor and fan are fitted with an internal thermal protection that cuts power to the motor in the event of overheating.
Three-phase versions: the thermal protections of the humidifier motor and fan must be connected to an external power cutoff circuit on the respective terminals of the terminal board.

UX56-M



P	Pump
MU	Humidifier motor
MV	Fan motor
C	Capacitor

UX56-T, UX71-TT, UX71-TS

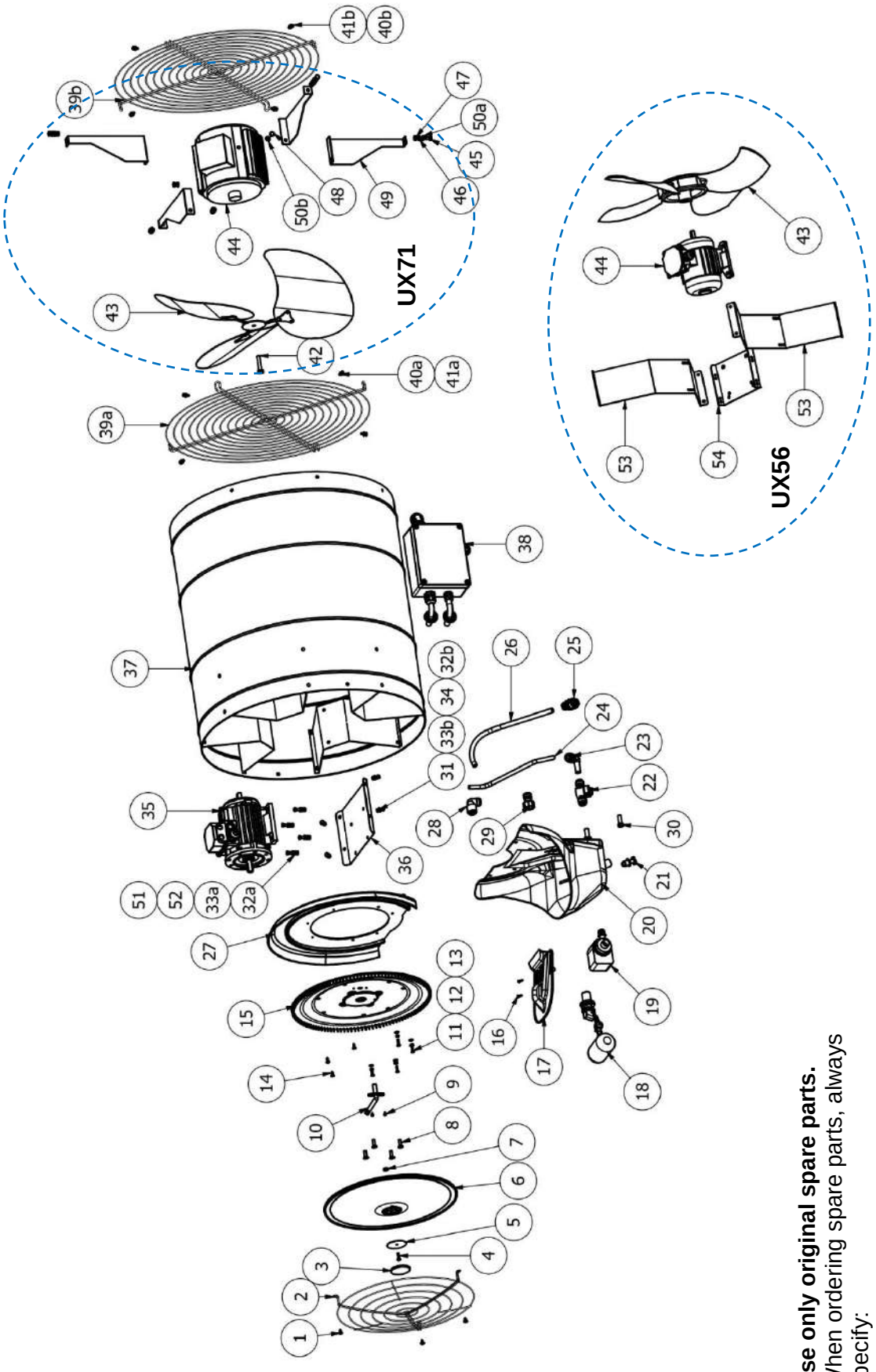


P	Pump
MU	Humidifier motor
MV	Fan motor
PT1	Humidifier motor thermal protection
PT2	Fan motor thermal protection

Also make sure that:
- all electrical connections have been made in accordance with the instructions in this manual;
- the grounding has been carried out correctly;
- all applicable safety regulations have been complied with;

If the power cables are damaged, they must be replaced by the manufacturer or his technical service or a similarly qualified person, in order to prevent any risk.

6. SPARE PARTS LIST



Use only original spare parts.
When ordering spare parts, always specify:

- Machine model
- Year of construction/No. of series
- Part number
- Quantity

Pos.	Qty	UX56 cod.	UX71 cod.	Description
1	3	6002000	6002000	SCREW 4.2x13 DIN 7982
2	1	1801030	1801030	ROTATING DISC PROTECTION GRID
3	1	1800003	1800003	ROTATING DISC CAP
4	1	6001001	6001001	screw M4x16 DIN 933
5	1	1801006	1801006	ROTATING DISC FIXING WASHER
6	1	1800060	1800060	ROTARY DISC
7	1	1801008	1801008	ROTATING DISC SPACER
8	4	6001502	6001502	SCREW M6x20 DIN 7991
9	2	6002003	6002003	SCREW 2.9x6.5 DIN 7981
10	1	1800022	1800022	NOZZLE
11	4	6001501	6001501	SCREW M4x16 DIN 7991
12	4	6002500	6002500	NUT M4 DIN 934
13	4	6003000	6003000	WASHER 4.3x9 DIN 125
14	3	6002000	6002000	SCREW 4.2x13 DIN 7982
15	1	1800061	1800061	FIXED DISK
16	2	6002002	6002002	SCREW 2.9x13 DIN 7982
17	1	1800017	1800017	TANK COVER (GREEN)
18	1	1800065	1800065	FLOAT VALVE
19	1	1800066	1800066	230V 50Hz PUMP
20	1	1800063	1800064	TANK (GREEN)
21	1	8202010	8202010	3/8" DRAIN PLUG
22	2	8202000	8202000	VALVE 3/8"
23	1	8202001	8202001	3/8" ELBOW CONNECTOR
24	1	1806007	1806007	TUBE 3/8" L=330mm
25	1	8202006	8202006	3/8" PIPE UNION
26	1	1903053	1903053	FEEDING TUBE 3/8"
27	1	1800062	1800062	COMPLETE SHELTER

Pos.	Qty	UX56 cod.	UX71 cod.	Description
29	1	8202008	8202008	STRAIGHT FITTING F 1/2"-3/8"
30	1	7303005	7303005	CABLE GROMMET
31	4	6003009	6003009	WASHER 5X10
32	8	6003051	6003051	GROWER WASHER A5
33	8	6002501	6002501	NUT M5 DIN 934
34	4	6001005	6001005	SCREW M5x10
35	1	5000000	-	MOTOR 230V 50Hz (UX 56-M)
35	1	5001000	5001000	MOTOR 400V 3 50Hz (UX 56-T & UX 71)
36	1	1901014	1901015	HUMIDIFIER STAND
37	1	1903000	1903010	COMPLETE UX BODY
38	1	1903002	1903002	COMPLETE ELECTRICAL BOX UX
39	2	1401007	1901010	PROTECTION GRILLE
40	8	6003000	6003000	WASHER 4.3x9 DIN 125
41	8	6003005	6003005	screw M4x10 DIN 933
42	1	6001011	6001011	SCREW M8x12 DIN 933
43	1	5102013	1905003	FAN
44	1	5202002	1905000	SINGLE-PHASE FAN MOTOR
44	1	5003011	1905004	THREE-PHASE FAN MOTOR
45	4	6001008	6001008	SCREW M6x12 DIN 933
46	4	6003008	6003008	WASHER 6,4x12 DIN 125
47	4	6002502	6002502	NUT M6 DIN 934
48	4	6001012	6001012	SCREW M6x10 DIN 933
49a	1	-	1901024	MOTOR FIXING BRACKET
49b	3	-	1901025	MOTOR FIXING BRACKET
50	8	6003052	6003052	WASHER M6 DIN 127
51	4	6001006	6001006	SCREW M5x25 DIN 933
52	4	6003004	6003004	WASHER 5.3x15 DIN 125
53	2	1453004	-	SIDE MOTOR MOUNTING BRACKET
54	1	1453003	-	MOTOR BRACKET

7. TROUBLESHOOTING GUIDE

The operations described in this chapter must only be carried out by authorised and qualified personnel, using suitable personal protective equipment. Before carrying out any work, disconnect the appliance from the electricity and water mains.

PROBLEM	CAUSE	SOLUTION
The machine does not start	Lack of voltage	Check connections and power supply
The rotating disc and/or the fan do not rotate (or stop during operation) but water is recirculated by the pump.	Power failure to the humidifier or fan motor	Check the voltage on the motor power supply line
	Faulty humidifier motor or fan motor	Check and replace the defective motor or capacitor if necessary
	Thermal motor protector trip (overheating)	Identify and eliminate the cause of overheating. Wait for the motor to cool down and restart the appliance.
The rotating disc and the fan turn but the water is not sprayed.	Pump power failure	Check the pump supply line
	Water supply circuit is disconnected	Check the water supply pipe and the spray control valve
	The pump is clogged	Clean the pump and tank
	The pump is full of air	Bleed the internal hydraulic circuit by disconnecting the hose from the control valve.
	The pump is faulty	Check and replace if necessary
	The tank does not fill correctly	Check float, adjust or replace if necessary
Spraying is coarse	Fixed disk is dirty	Clean the fixed disk
	The distance between rotating disc and fixed disc is incorrect	Check that the 4mm thick spacer is correctly positioned
	Nozzle is dirty or clogged	Check nozzle, clean if needed
The machine is noisy or vibrates	The rotating disc is broken or incorrectly mounted	Check and replace the rotating disc if needed
	Faulty motor/fan	Check and replace defective parts as needed

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