

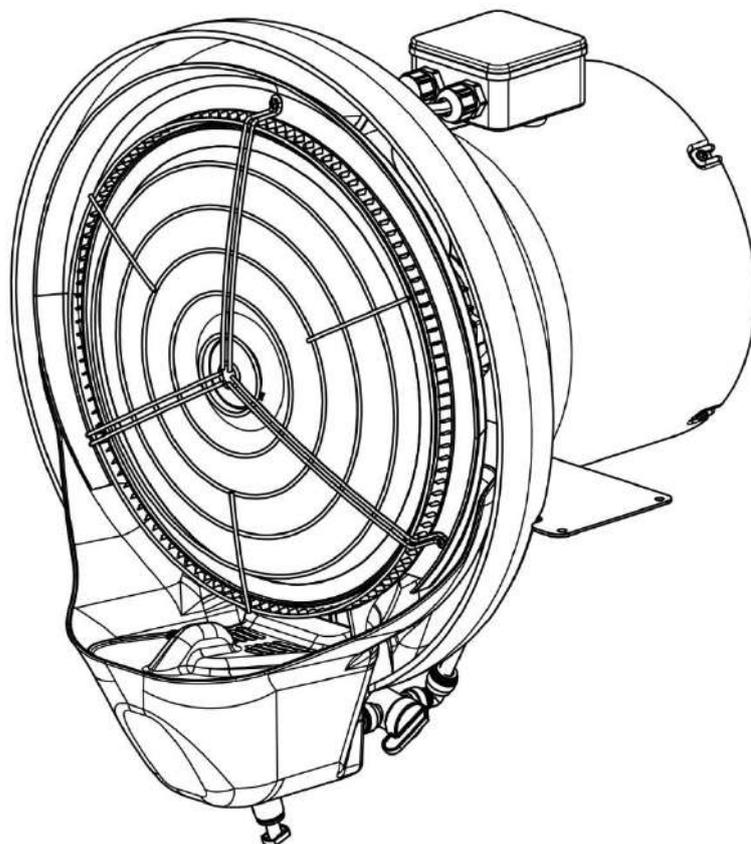


FRANCO

**INSTRUCTION MANUAL FOR
USE AND MAINTENANCE**

UCP Fly

HUMIDIFIER/COOLER



**TRANSLATION OF ORIGINAL INSTRUCTIONS
ENGLISH**

Read this manual carefully before
installing and operating the machine

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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 back 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 hand.
 - Do not pull on power cables or expose them to risk of shearing.
 - Do not leave the appliance exposed to the elements (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 try 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 from which it is made to be recovered in order to obtain significant savings in energy and resources. To emphasise 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 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 destination.
	Mechanical maintenance technician: qualified technician, able to operate the machine under normal conditions, to make it work with protections deactivated, to intervene on the mechanical parts to carry out 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 enabled to perform all interventions of 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

In **industry**, the machine is installed in rooms where it is necessary to maintain a certain level of humidity, e.g. in cold storage rooms for fruit and vegetables, in seasoning warehouses, in the paper and tobacco industries and in textile companies.

In **agriculture** it is used to humidify mushrooms and greenhouses, and for pest control treatments.

In **livestock farming** it is used to cool animal enclosures and in installations to spray disinfectants or other chemicals into the environment.

In addition to being used as a humidifier, the device 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.



1.8 Versions

EU versions (50 Hz):

3108400	UCP Fly H15	air flow rate :	750 m ³ /h	230V ~ 50Hz
3108000	UCP Fly H20	air flow rate :	1100 m ³ /h	230V ~ 50Hz
3108100	UCP Fly H25	air flow rate :	1800 m ³ /h	230V ~ 50Hz

Extra-EU versions (60 Hz):

3108500	UCP Fly H15	air flow rate :	1100 m ³ /h	230V ~ 60Hz
3108200	UCP Fly H20	air flow rate :	1300 m ³ /h	230V ~ 60Hz
3108300	UCP Fly H25	air flow rate :	2100 m ³ /h	230V ~ 60Hz

1.9 Machine identification and dataplate

Each machine is identified by an EC nameplate 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.

Centrifugal Humidifier
Umidificatore centrifugo

FRANCO

Model: **UCP Fly H15**

Atomization Capacity: 25 lt/h
Capacità di Atomizzazione

Airflow 750 m³/h
Portata Aria

Power Supply: 230V 50Hz 1.8A
Alimentazione

Construction Year: 2022
Anno di Costruzione

Made in Italy






FRANCO s.r.l. – 12010 Cervasca CN (Italy)

Fig.1.9.1 CE nameplate

1.10 Description of equipment

Main components of the appliance (Fig. 1.10.1)

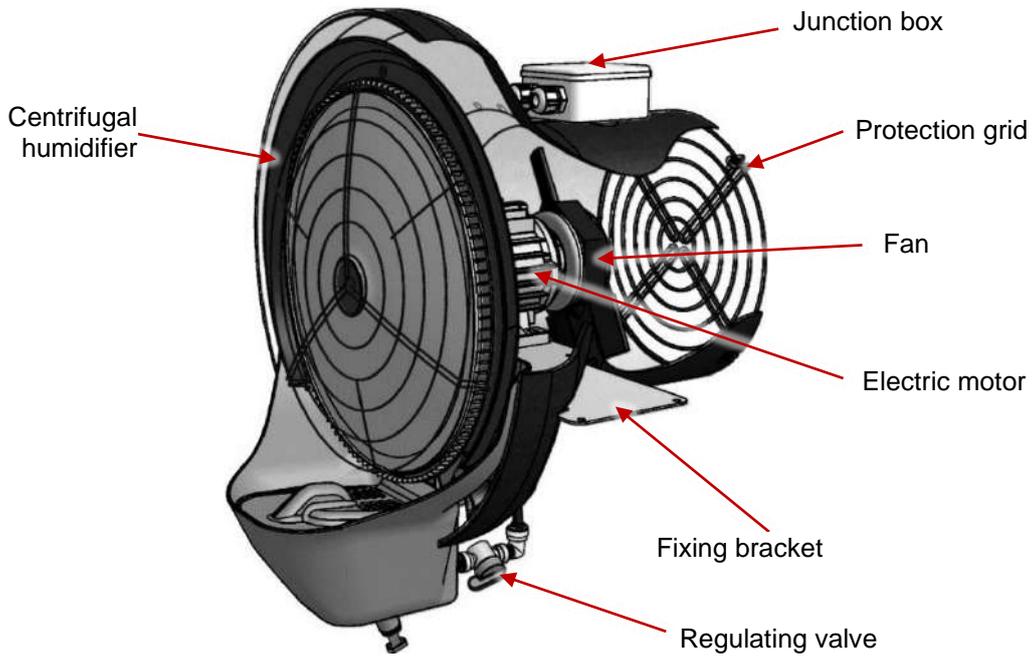


Fig. 1.10.1

Main components of the centrifugal humidifier (Fig. 1.10.2)

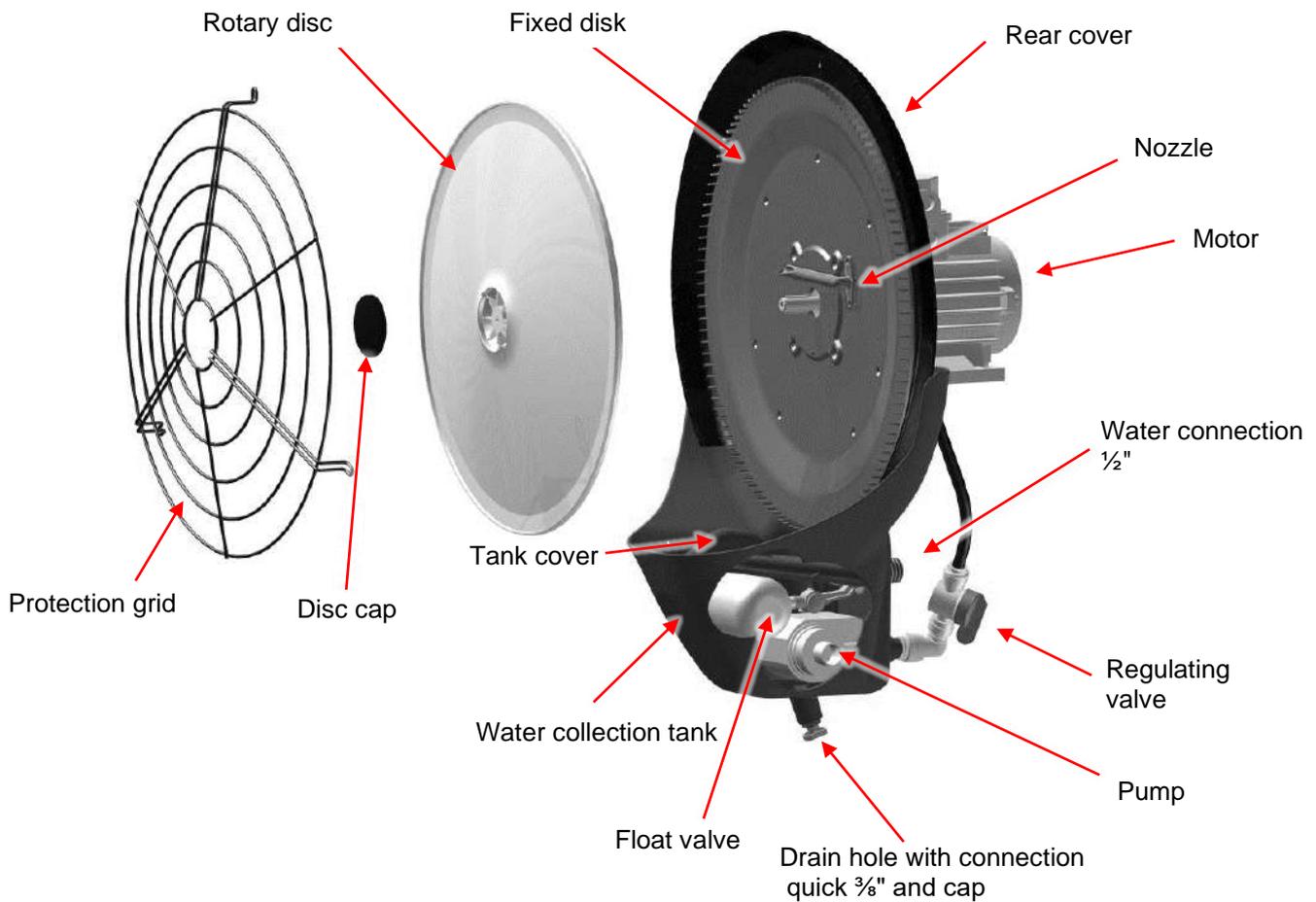


Fig. 1.10.2

1.11 Transport and handling



The machine is packed in sturdy cardboard boxes. Take care when opening the packaging to avoid damage to components. Check the integrity of the machine and make sure 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 UCP Fly can be raised and suspended using the fixing plate.

ATTENTION! Before making any moves:



- a. stop the machine;
- b. cut off the power supply;
- c. cut off 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 12 months 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 and 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 Declarations

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

Address

12010

Postcode

CN

Province

Cervasca

City

Italy

State

DECLARES under its own responsibility that the machine

Humidifier / Cooler

Description

UCP Fly H15; UCP Fly H20; UCP Fly H25

Model

3108400; 3108000; 3108100; 3108500; 3108200; 3108300

Article number

UCP Fly Humidifier/Cooler

Trade name

Humidification/Adiabatic cooling

Intended use

complies with the following European Directives:

2006/42/EC

(2014/35/EU)

2014/30/EU

Machinery Directive

(Low Voltage Directive)

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

Address

12010

Postcode

CN

Province

Cervasca

City

Italy

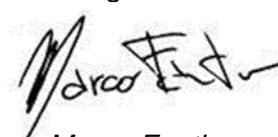
State

Place and date of document

Cervasca, 21/01/2022

Rev. 00/2022

**The manufacturer
Signature**



**Marco Fantino
Administrator**

2 - INSTALLATION

2.1 Preliminary operations

To operate the UCP Fly humidifier, you need:

- Electrical network with voltage and frequency ratings 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: must be 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 $\mu\text{S}/\text{cm}$ and total hardness less than 5° fH (50 ppm CaCO_3) or another equivalent national standard.

2.2 Positioning

The UCP Fly humidifier must be installed in a **horizontal position**, with the non-sprayed water collection tank at the bottom, raised off the ground.

Use the holes on the fixing plate to fix the machine: the hole spacing is shown in figure 2.2.1. The fixing must be stable.

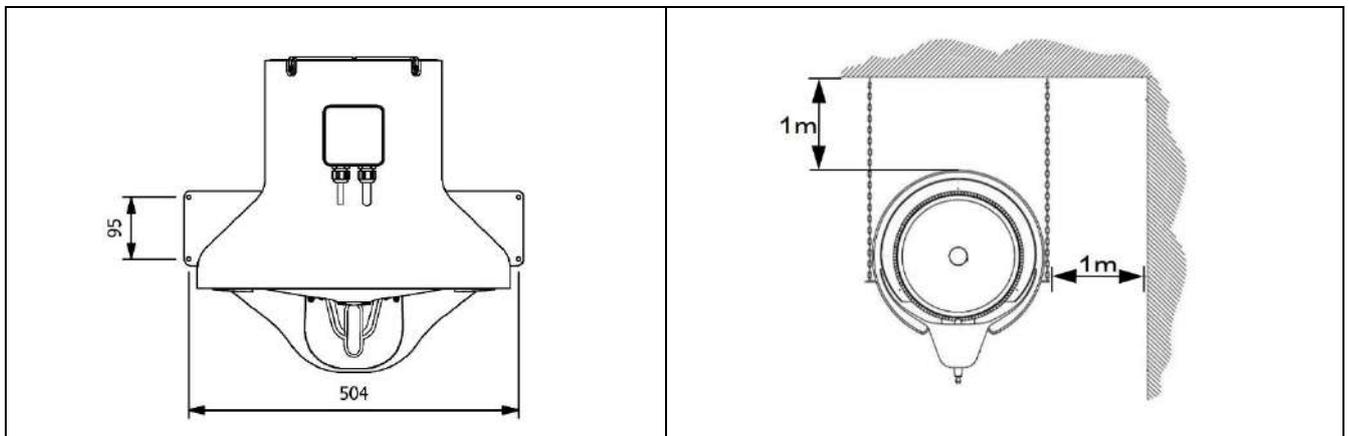
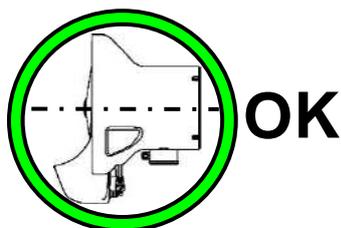


Fig. 2.2.1 - Fixing hole spacing and minimum wall distances



The UCP Fly 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 avoid the formation of condensation, maintain a distance of at least 1m from the ceiling and surrounding walls (Fig. 2.2.1) while the distance from the wall in front of the machine should be determined according to the model chosen and the amount of water sprayed.

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 grid (30mm, code 1801031) supplied as standard.
- installation at a **height < 2.5m** from the walking surface: remove the wide pitch grid and fit the front **fine** pitch (10mm, code 1801030) protection grid available as an accessory. For fixing, use the 3 screws 4.2x9.5 code 6002004 supplied as standard.

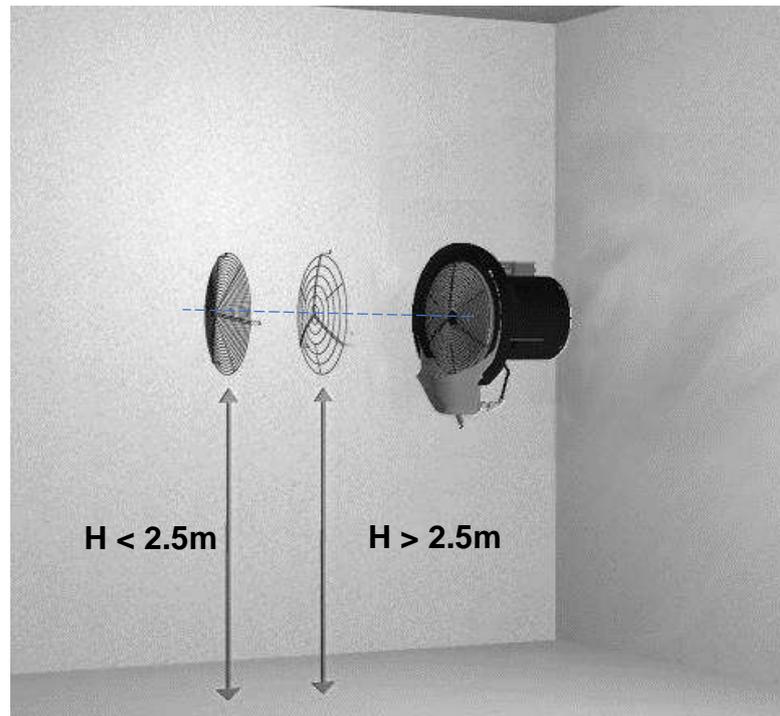


Fig. 2.2.2



Do not remove the protective devices. Observe 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 current regulations.
- Ensure that the supply voltage characteristics comply with the information on the nameplate of the appliance.



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

The appliance must be electrically powered by means of a power cable of suitable cross-section, to be connected to the terminal board, 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, an ON/OFF switch can be used for manual control of the machine.

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 connection 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.

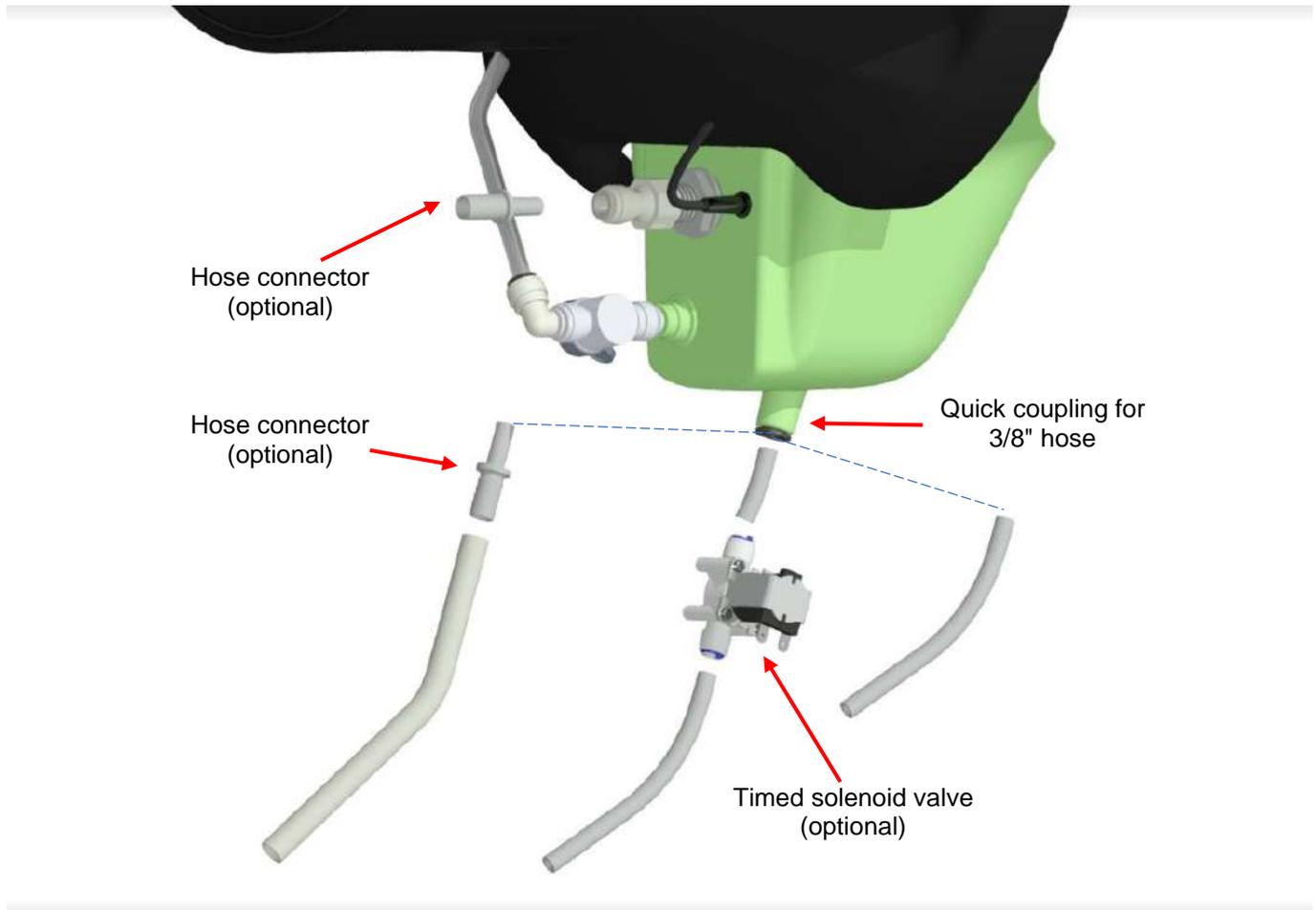


Fig. 2.4.1

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

- remove the drain plug by pushing up the stop ring. This operation can be facilitated by using a 10 mm hexagonal spanner.
- 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.

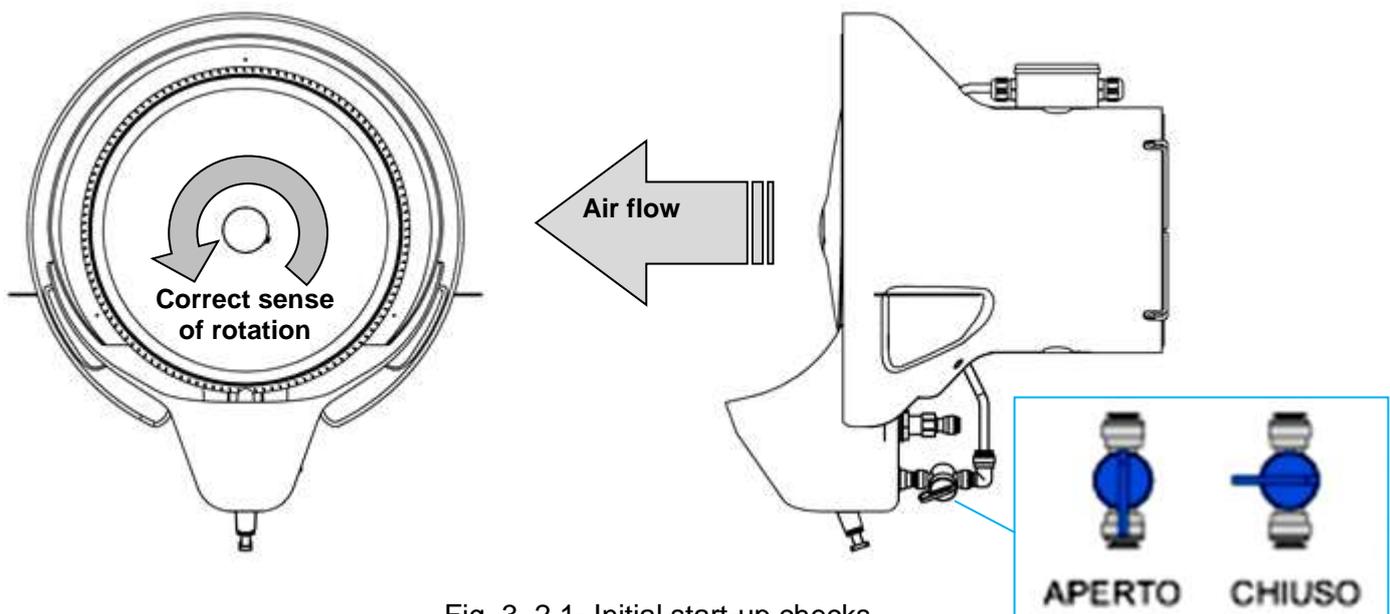


Fig. 3. 2.1- Initial start-up checks

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

3.3 Start-up

As soon as the machine is powered up, the motor fan and pump start up. The pump circulates the water to the rotating disc, which nebulises it, and the fan generates a flow of air that distributes the mist produced by the humidifier throughout the room. In case of a malfunction during operation, please refer to Chapter 6 "Troubleshooting".

3.4 Adjusting the water flow rate

Adjust the water flow rate by adjusting the ball valve until fine atomization is achieved without droplets being dragged by the rotating disc (Fig. 3.2.1). Centrifugal humidifiers produce droplets with an average size between 10 and 30 μm . The size of the droplets depends on the flow rate setting and on various environmental factors.

The UCP Fly is capable of atomising up to a maximum of 25 l/h of water. An excessive water flow rate may result in an increase in droplet size and adversely affect the mist 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, bowl 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: rub the teeth taking 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 required to provide a periodic automatic or manual drainage system for the water collection tank. The water collection tank must be regularly 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 13spanner 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 inner parts of the pump with lukewarm water.

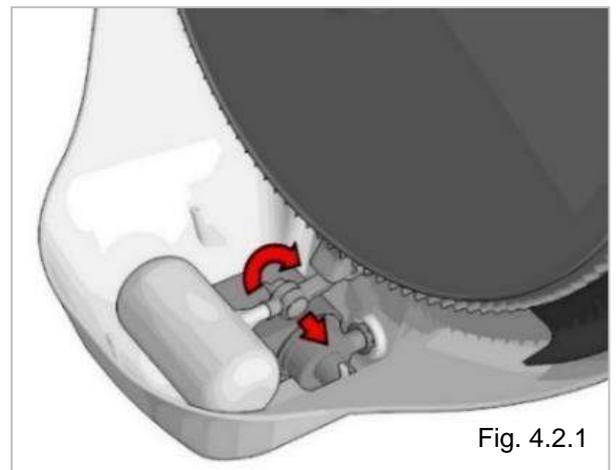


Fig. 4.2.1

4.3 Replacing and cleaning the pump

To replace the pump, proceed as follows:

- Unscrew the two cover 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 discharge port of the removed pump and fit it to the new one.
- Repeat the sequence in reverse, taking care to adjust the float position 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 ring to the unlock 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 grille, if present, by unscrewing the 3 fixing screws.
- Remove the central cap of the rotating disc by levering it into the recess with a small slotted screwdriver (Fig. 4.4.1).
- Using a screwdriver (hex 7), loosen the M4x16 fixing screw of the rotating disc to the motor shaft and its washer (Fig. 4.4.2).

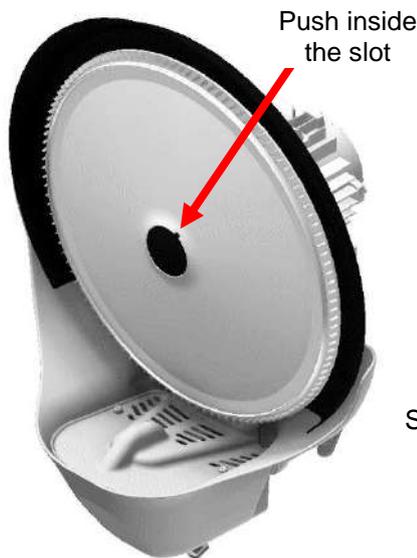


Fig. 4.4.1

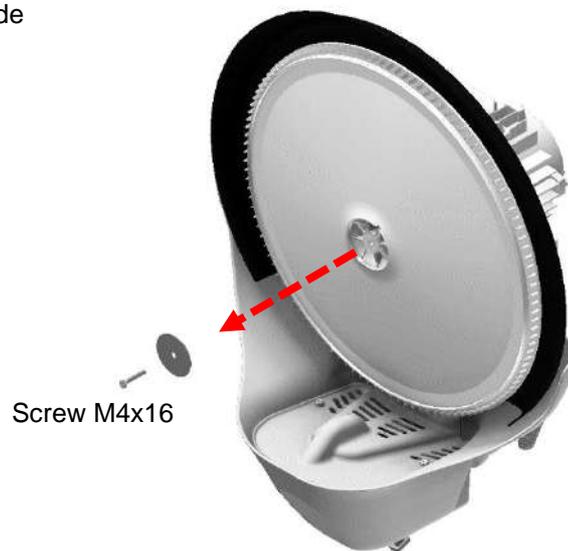


Fig. 4.4.2

- 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)

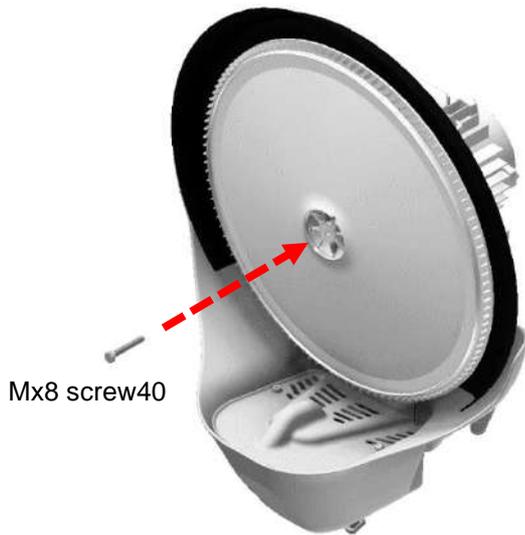


Fig. 4.4.3

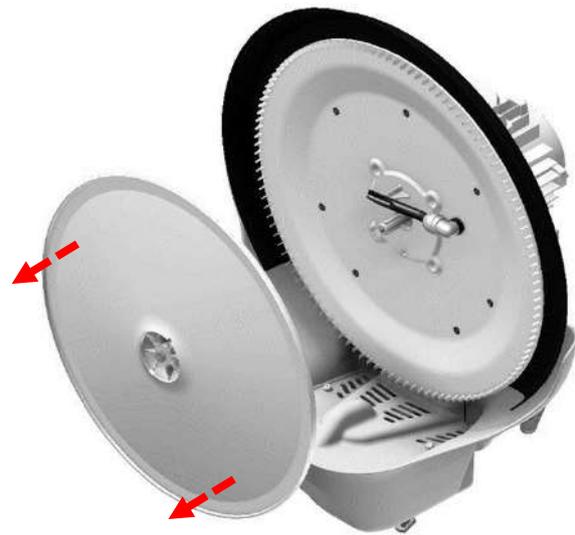


Fig. 4.4.4

- 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" water inlet 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 and adjust it so that the water level inside the tank completely covers the pump.
- Reassemble the assembly 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 (see section 5.3 "Spare parts list" item 19) to 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 UCP Fly, such as protective 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

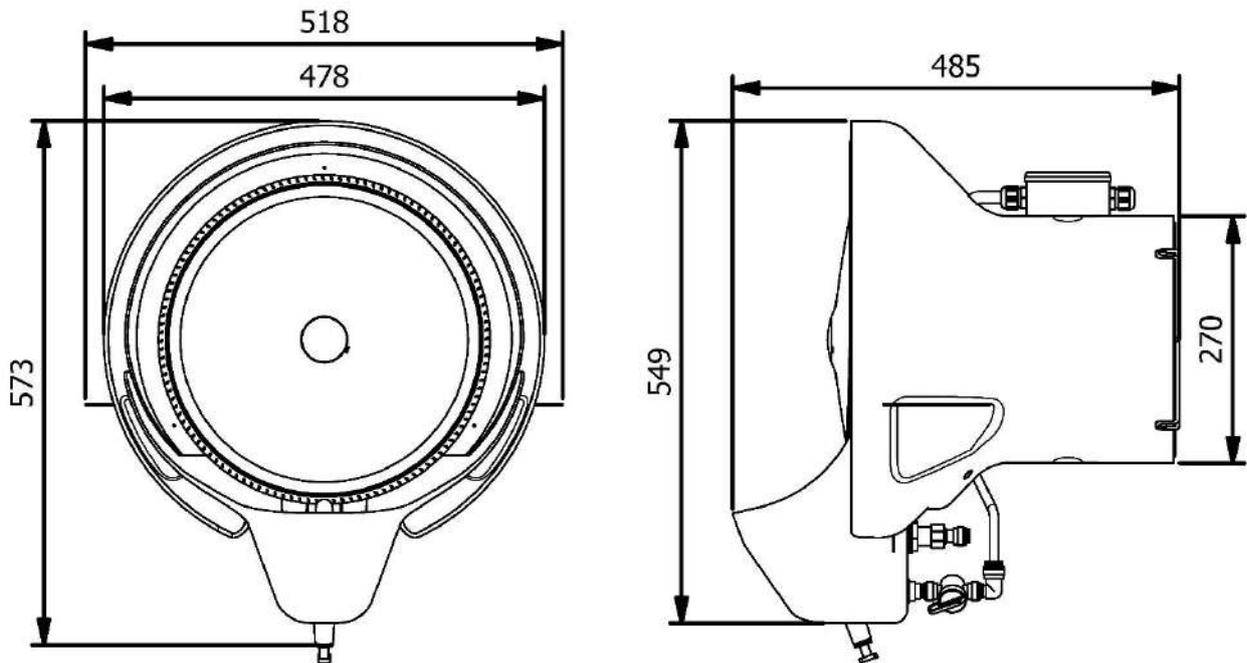
50Hz Versions

		H15	H20	H25
Atomization capacity	l/h	up to 25	up to 25	up to 25
Power supply		~ single-phase	~ single-phase	~ single-phase
IP rating		IP56	IP56	IP56
Weight	kg	10	10	10
Air flow rate	m ³ /h	750	1100	1800
Power	W	320	340	380
Voltage	V/Hz	230/50	230/50	230/50
Current	A	1.8	1.9	2.0

60Hz Versions

		H15	H20	H25
Atomisation capacity	l/h	up to 25	up to 25	up to 25
Power supply		~ single-phase	~ single-phase	~ single-phase
IP rating		IP56	IP56	IP56
Weight	kg	10	10	10
Air flow rate	m ³ /h	1100	1300	2100
Power	W	390	410	520
Voltage	V/Hz	230/60	230/60	230/60
Current	A	1.8	1.9	2.3

5.2 Overall dimensions

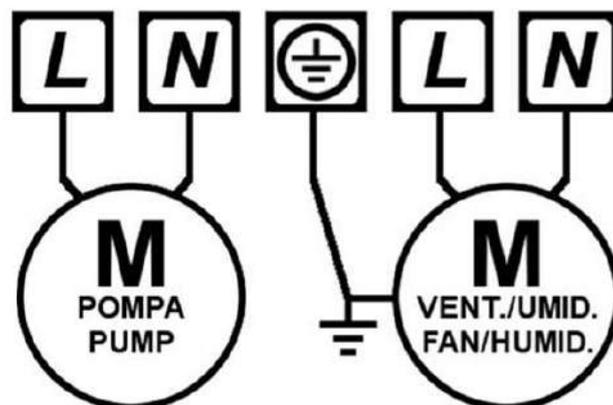


5.3 Electrical diagrams



Ensure that the electrical supply characteristics complies with the table. Use cables with an appropriate cross-section for the rated current (A) of the device (see Section 5.1 'Technical characteristics').

Insert a thermomagnetic differential circuit breaker on the power line upstream of the equipment.

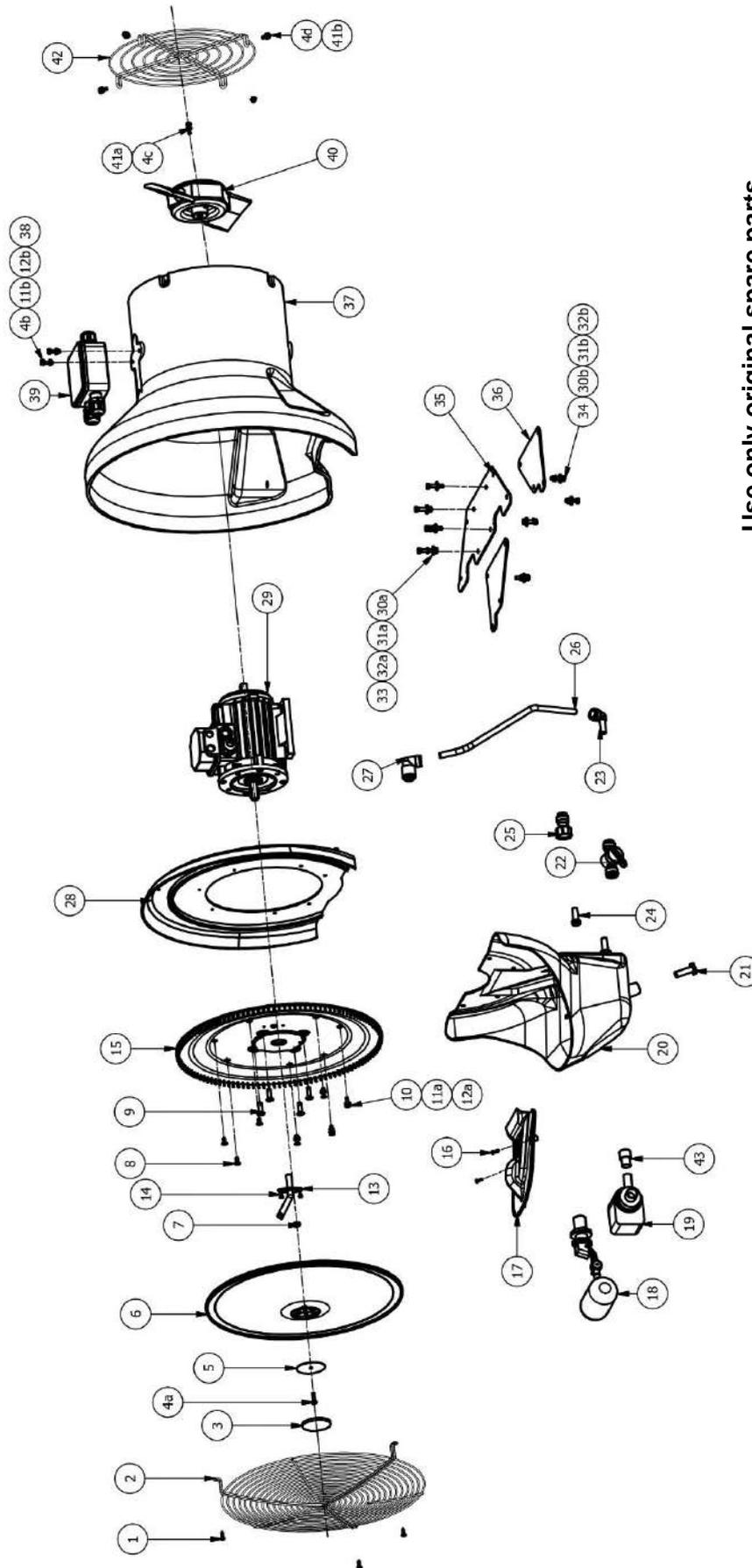


Also ensure that:

- all electrical connections have been made in accordance with the instructions in this manual;
- the unit has been correctly grounded;
- all applicable safety regulations have been complied with;

If the power cable is damaged, it must be replaced by the manufacturer or his technical service or by a similarly qualified person, 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.	Code	Description	Qty
22	8202000	VALVE 3/8"	1
23	8202001	ELBOW CONNECTION	1
24	7303005	CABLE GROMMET	1
25	8202008	STRAIGHT FITTING F 1/2"- 3/8"	1
26	1806007	TUBE 3/8" L=430mm	1
27	8202009	3/8" ELBOW CONNECTOR	1
28	1800062	REAR COVER	1
29	5001500	MOTOR 230V 50Hz	1
	5001501	MOTOR 230V 60Hz	1
30a	6003004	WASHER 5x15 DIN 125 - A 7.4	8
30b	6003004	WASHER 5x15 DIN 125 - A 7.4	8
31a	6003051	GROWER WASHER D.5 DIN 128 - A5	4
31b	6003051	GROWER WASHER D.5 DIN 128 - A5	4
32a	6002501	NUT M5 DIN 934	4
32b	6002501	NUT M5 DIN 934	4
33	6001006	SCREW M5x25 DIN 933	4
34	6001007	SCREW M5x20 DIN 933	4
35	3101010	MOTOR BRACKET	1
36	3101011	UCP-FLY SUPPORT	2
37	3101001	UCP-FLY BODY	1
38	6003005	WASHER M4x12 DIN 125	2
39	3105005	ELECTRICAL BOX	1
	3105010	FAN UCP FLY H15	
40	3105003	FAN UCP FLY H20	1
	3105004	FAN UCP FLY H25	
41a	6003007	WASHER DIN 125 - A 4,3	1
41b	6003007	WASHER DIN 125 - A 4,3	4
42	3101020	PROTECTION GRID	1
43	1800008	PUMP SPACER	1

Pos.	Code	Description	Qty
1	6002004	SCREW 4.2x9.5 DIN 7981	3
2	1801030	PROTECTION GRID (10mm pitch)	1
	1801031	PROTECTION GRID (30mm pitch)	
3	1800003	ROTARY DISC CAP	1
4a	6001001	SCREW M4x16 DIN 933	1
4b	6001001	SCREW M4x16 DIN 933	2
4c	6001001	SCREW M4x16 DIN 933	1
4d	6001001	SCREW M4x16 DIN 933	4
5	1801006	ROTARY DISC FIXING WASHER	1
6	1800060	ROTARY DISC	1
7	1801008	ROTARY DISC SPACER 4mm	1
8	6002000	SCREW 4.2x13 DIN 7982	3
9	6001502	SCREW M6x20 DIN 7991	4
10	6001501	SCREW M4x16 DIN 7991	4
11a	6003000	WASHER 4.3x9 DIN 125	4
11b	6003000	WASHER 4.3x9 DIN 125	2
12a	6002500	NUT M4 DIN 934	4
12b	6002500	NUT M4 DIN 934	2
13	1800022	NOZZLE	1
14	6002003	SCREW 2.9x9.5 DIN 7981	2
15	1800061	FIXED DISK	1
16	6002002	SCREW 2.9x19 DIN 7982	2
17	1800017	TANK COVER (GREEN)	1
18	8202510	FLOAT VALVE	1
	1800066	230V 50Hz PUMP	
19	1800067	230V 60Hz PUMP	1
20	1800063	TANK (GREEN)	1
21	8202010	DRAIN PLUG 3/8".	1

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 supplies.

PROBLEM	CAUSE	SOLUTION
The machine does not start	No power supply	Check connections and power supply
The rotating disc and the fan do not rotate (or stop during operation) but water is recirculated by the pump.	No power supply to the motor	Check the motor power supply line
	Faulty motor	Check and replace the motor or capacitor if necessary
	Triggering of the thermal motor protection (overheating)	Disconnect power, 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 regulation 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 is not filled correctly	Check float, adjust or replace if necessary
Spraying is coarse	The fixed disk is dirty	Cleaning the fixed disk
	The rotating disc is too far from the fixed disc	Check that the 4mm thick spacer is correctly positioned
	Nozzle is dirty or clogged	Check nozzle, clean if necessary
The machine is noisy or vibrates	The rotating disc is broken or incorrectly mounted	Check and, if necessary, replace the rotating disc
	Faulty motor/fan	Check and replace defective parts if necessary

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