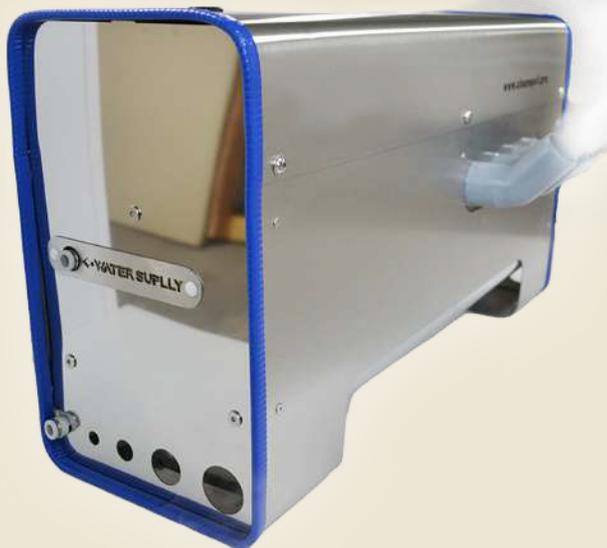




WALL MOUNTED ULTRASONIC HUMIDIFIER IOM MANUAL

CLEANSPT G-14S

DIRECT ROOM - WALL MOUNTED - STAND ALONE SERIES



Ultrasonic Humidifier STAND ALONE WALL MOUNTED
Installation & Operation Manual

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Ultrasonic Humidifier STAND ALONE WALL MOUNTED
Installation, Operation & Maintenance Manual

TABLE OF CONTENTS

1.0	Introduction	3
1.1	General	3
1.2	Safety	3
1.3	General	3
1.4	Safety Summary	4
1.5	Product Warranty	5
1.6	Specifications	6
1.7	General Design	7
1.8	Main Parts	7
2.0	Installation	8
2.1	Receiving the Equipment	8
2.2	Site Preparation	8
2.3	Mounting/Placement	9
2.4	Cat's eye label	9
2.5	Supply and Water Release Piping	10
2.6	Main Power/Control Wiring	11
2.7	Humidistat	11
3.0	Trial Operation	12
3.1	Initial Operation	12
3.2	Initial Operation Checklist	12
3.3	Procedure For Initial Operation	12
3.4	Purge the Water Supply Line	12
4.0	Operation	13
4.1	Precautions	13
4.2	Operation Procedure and Control	13
4.3	Steps for Long Term Shutdown	13
5.0	Maintenance/Repairs	14
5.1	Periodic General Maintenance	14
5.2	General.....	15
6.0	Drawings.....	16
6.1	Layout Drawing of Humidifier	16
7.0	Water connections.....	17
8.0	Humidistat ,BMS, RH% Connection.....	17
9.0	Electrical Circuit Diagrams	19

1.0 INTRODUCTION

1.1 General

The KLINSPOT DOOEL ultrasonic humidifiers are meticulously crafted with top-notch materials, ensuring exceptional quality. When correctly installed and maintained as per this manual, your ultrasonic humidification system will provide years of reliable service. Please note that any damage resulting from improper installation, operation, or maintenance is not covered by the warranty.

This manual encompasses crucial information on installation, operation, maintenance, troubleshooting, and repair. It is imperative to thoroughly review and adhere to these instructions to avoid potential issues. Spare parts are readily available through KLINSPOT DOOEL to ensure uninterrupted operation. We strongly discourage using substitute parts or bypassing electrical components, as it will void the warranty. Keep in mind that due to technological advancements, component changes may occur without prior notice.

Our Ultrasonic Humidifiers are designed as stand-alone, direct-room humidifiers. Usage beyond this intended purpose is not recommended, and KLINSPOT DOOEL is not responsible for any damage resulting from improper use. Unless otherwise specified on the equipment nameplate, the system is meant for indoor installation..

1.2 Safety

1.3 General

KLINSPOT DOOEL uses **NOTES** along with **CAUTION** and **WARNING** symbols throughout this manual to draw your attention to important operational and safety information. A bold text **NOTE** marks a short message in the information to alert you to an important detail. A bold text **CAUTION** safety alert appears with information that is important for protecting your equipment and performance. Be especially careful to read and follow all cautions that apply to your application. A bold text **WARNING** safety alert appears with information that is important for protecting you from harm and the equipment from damage. Pay very close attention to all warnings that apply to your application.

A safety alert symbol  accompanies a general **WARNING** or **CAUTION** safety statement.

A safety alert symbol  accompanies an electrical shock hazard **WARNING** or **CAUTION** safety statement.

1.4 Safety Summary

The following statements are general guidelines followed by warnings and cautions applicable throughout the manual.

Prior to performing any installation, operation, maintenance or troubleshooting procedure read and understand all instructions, recommendations and guidelines contained within this manual.

WARNING

High voltage is used in the operation of this equipment. Death on contact may result if personnel fail to observe safety precautions.

CAUTION

This device must be installed according to local and national electric codes.

Always turn off the main power and unplug the unit. Unplug the appliance during filling and cleaning and before beginning work on the equipment.

All maintenance and/or repairs must be performed by a qualified technician. All personnel working on or near equipment should be familiar with hazards associated with electrical maintenance.

NOTE

Wiring terminations may become loose during transit of the equipment therefore; verify all wiring terminations are secure prior to operation.

NOTE

Do not attempt to make repairs without the proper tools.

NOTE

Children being supervised not to play with the appliance.

NOTE

KLINSPOT DOOEL offers no warranty protection on humidification systems using controls that are not provided by KLINSPOT DOOEL

CAUTION

It is essential that De-ionized (DI) or Reverse Osmosis (RO) water be used as the supply water source to maintain full warranty cover-age. The use of untreated water will VOID THE WARRANTY.

CAUTION

Use only non-corrosive stainless steel or poly tubing rated for use with DI water to supply the humidifier.

CAUTION

Never block the mist outlet or the opening of the air inlet. The humidifier may be filled with the condensed mist and electrical shorts may result.

CAUTION

Observe the unit for water leakage. A short circuit could occur if the humidifier is splashed with water while operating.

CAUTION

Never attempt to remove the mist guide cover and/or the mist blow tubes while the humidifier is operating, or electrical shorts may result.

CAUTION

If there is a risk of supply water freezing, pipe insulation should be provided.

CAUTION

Never apply power when the humidifier is overturned or upside down. Damage to the ultrasonic nebulizer unit or transducer may result.

CAUTION

Never drop the humidifier or apply hard shock to it. It may damage internal parts.

CAUTION

Drain the water in the tank for sanitary rea-sons when humidifier is turned is off for more than 3 days.

CAUTION

Persons with Reduced Physical, Sensory, or Mental Capabilities:

Individuals who may have physical disabilities, sensory impairments (such as blindness or deafness), or mental challenges should exercise caution when using the appliance. Depending on their specific limitations, they might not be able to safely operate the appliance without assistance.

Persons with Lack of Experience and Knowledge:

Individuals who are unfamiliar with the operation of the appliance or lack the necessary knowledge or skills to use it safely. This could include children or adults who have never used a similar appliance before.

Supervision or Instruction:

To ensure safety, individuals falling into the aforementioned categories should either be supervised by someone who is capable of using the appliance safely or provided with proper instruction on how to use it correctly. Supervision typically means having someone knowledgeable oversee the operation of the appliance to prevent accidents, while instruction involves educating the user on safe usage practices.



Ultrasonic Humidifier- Model G-14S

1.5 Product Warranty

KLINSPOT offers a standard ONE year limited warranty as stated below:

ONE YEAR Warranty

KLINSPOT DOOEL, warrants to the original buyer of its products that the goods are free from defects in material and workmanship. KLINSPOT DOOEL obligation under this warranty is to repair or replace, at its option, free of charge to the customer, any part or parts which are determined by KLINSPOT DOOEL to be defective for a period of 12 months from date of shipment when a completed start-up form has been submitted to KLINSPOT DOOEL within 90 days from shipment. In the event that a completed start-up form is not received by KLINSPOT DOOEL within 90 days from shipment, the company's obligation will be for a period of 12 months from date of shipment. Parts repaired or replaced under this warranty are shipped FOB Factory, and warranted for the balance of the original warranty period or for 90 days from the date of installation, whichever is greater.

KLINSPOT DOOEL warranty does not cover failures caused by improper installation, abuse, misuse, misapplication, improper or lack of maintenance, negligence, accident, normal deterioration (including wear and tear), or the use of improper parts or improper repair.

Purchaser's remedies are limited to replacement or repair of non-conforming materials in accordance with the written warranty. This warranty does not include costs for transportation, costs for removal or reinstallation of equipment or labor for repairs or replacement made in the field.

If any sample was shown to the buyer, such sample was used merely to illustrate the general type and quality of the product, and not to represent that the equipment would necessarily conform to the sample.

This is the only warranty given by the seller, and such warranty is only given to buyers for commercial or industrial purposes. This warranty is not enforceable until the invoice(s) is paid in full.

THE FOREGOING SHALL CONSTITUTE KLINSPOT DOOEL ENTIRE LIABILITY AND YOUR EXCLUSIVE REMEDY. IN NO EVENT SHALL KLINSPOT DOOEL BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES, INCLUDING LOST PROFITS (EVEN IF ADVISED OF THE POSSIBILITY THEREOF) ARISING IN ANY WAY OUT OF THE INSTALLATION, USE OR MAINTENANCE OF THE EQUIPMENT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Conditions for Maintaining Warranty Coverage:

- 1) De-ionized (DI) or Reverse Osmosis (RO) water is used as the supply water for the humidifier.
- 2) KLINSPOT DOOEL provided controls are used with the humidification system.
- 3) Input voltage to the humidifier does not exceed 240 VAC.

G14-S Ultrasonic Humidifier Installation, Operation & Maintenance Manual

1.6 Specifications

Type	Ultrasonic Humidifier G14S
Model	G-14S
Nebulizing capacity (L/h)	14.0
Nos. of Ultrasonic nebulizer unit	24
Power source	Single-phase 220VAC; 50Hz
Rated power consumption (W)	720
Weight with water (Kg)	17.4
Operating conditions	
Ambient working conditions	2 to 50°C; 90%RH or less.
Water supply quality	DI or RO water. Water conductance <20 microsiemens purity.
Water supply pressure	100,000 to 500,000 (Pa) pascal
Water supply temperature	2°C to 35°C
Dimensions	
Height	310mm
Width	200mm
Length	600mm
Parts to be provided by user	
Humidistat, DI or RO supply water, Water supply valve, Water supply tubing (1/4" stainless steel or poly tubing rated for DI water, (Wire type: Cu 3X2,5mm ² minimum rated 250V, 80°C.	

- Notes:
- 1) Calcium, magnesium or other agents that may be contained in the supply water are atomized into the air together with the mist and may form white powders after the water has evaporated. To avoid this, always use DI or RO supply water.
 - 2) The nebulizing capacity of the transducer in the ultrasonic nebulizer unit decreases gradually with use. It should usually be exchanged after about 10,000 to 15,000 hours of operation, (depending on water quality and suitable voltage), although the unit may continue to run as long as it's effective capacity meets the particular requirements.
 - 3) To ensure full warranty coverage, the input voltage to the humidifier must not exceed 240VAC.

1.7 General Design

The G-14S Ultrasonic humidifier directly atomizes water producing a fine mist and is equipped with a fan to deliver the mist into a room. It is possible to adjust the atomization to maintain room conditions by changing the air volume.

A complete system consists of the humidifier to produce mist and a power supply, to supply power to the humidifier. The humidifier incorporates ultrasonic nebulizer unit(s) to produce ultrasonic waves, a fan to send out the mist, and an automatic water supply mechanism to maintain the supply water at a constant level.

1.8 Main Parts

- Ultrasonic Transducer Unit

Modular sub-assembly located in the bottom of the water tank incorporating a plate with amplifying circuitry and a transducer. The transducer oscillates at a high frequency, producing ultrasonic waves in the water.

- Gravity Valve and Float Switch

(Automatic water supply mechanism)

For maximum atomization, it is essential that the water level in the tank be constantly maintained. Water level suitable for atomizing is maintained by means of a gravity valve and float switch. When the water level in the tank falls below the designed level, the float switch contact turns OFF and the transducer's stop, gravity valve opens to supply water to the tank. When the correct water level is attained, the float switch contact turns ON and the transducer's run.

- Relay, Modular contactor

(Automatic low water shutdown mechanism)

Operating the humidifier when the water level in the tank is below the top of the transducers will damage the transducers and the circuitry in the ultrasonic nebulizer unit. A float switch and a relay are used to prevent the humidifier from "dry" running. If the water in the tank falls below a safe level for any reason, the float switch contact turns off shutting off the relay thus, cutting off the power supply to the unit.

- Fan

Blows the mist produced from the humidifier into the conditioned space.

- Air Filter

Filter for removing coarse dust from the air and prevent the humidifier water tank and interior from becoming dirty.

- Control Board

Contains modular relay used to control the operation of the unit.

- Water Supply Valve

(To be provided by user)

This valve should be installed upstream from the humidifier for service and maintenance. The valve must be rated for use with DI water.

- Water Supply Tubing

(To be provided by user)

This connects the water supply to the water supply compression fitting. The tubing must be rated for use with DI water.

2.0 INSTALLATION

2.1 Receiving the Equipment

Your Ultrasonic humidifier has been tested and inspected prior to shipment. To ensure that your equipment has been received in excellent condition, make a visual inspection of the equipment immediately upon delivery. Carefully remove the shipping container and all protective packaging. Open the box and thoroughly inspect the unit for any signs of transit-incurred damage. If there is shipping damage, it must be noted on the freight carrier's delivery forms **BEFORE** signing for the equipment. Any freight claims **MUST** be done through the freight carrier. KLINSPOT DOOEL ships all equipment FOB factory. KLINSPOT DOOEL is not liable for any equipment damage while in transit. KLINSPOT DOOEL can assist in the claim filing process with the freight carrier. Should any such damage be present, notify the KLINSPOT DOOEL Product Support Group prior to attempting any repairs. Refer to Section 6.0 of this manual for instructions. Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies to the appropriate authority.

Contents of Package:

1. Humidifier
2. Main Power Cable .
3. Installation, Operation and Maintenance manual.
4. Stainless steel 304 wall mounting brackets included SS304 screws.
5. Included 10m pipe per device, plug-in quick water couplings.

Avoid dropping or jarring the unit to prevent damage to the internal parts. The unit should always be stored in a dry location prior to installation.

2.2 Site Preparation

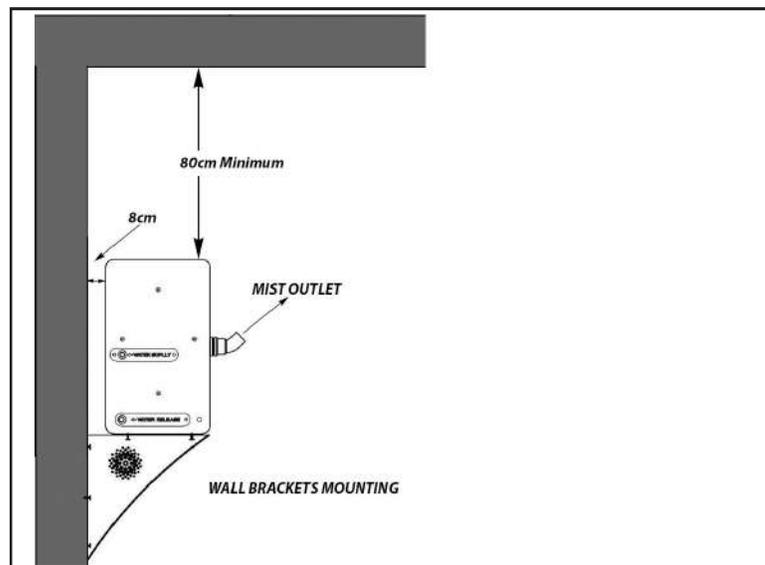
KLINSPOT DOOEL ultrasonic humidifiers are designed with easy service access in mind. Install the unit in a secure location where it cannot be tampered with and the power switch cannot be inadvertently turned off. Allow access to the unit for routine operation, servicing and for necessary maintenance. Position the humidifier in such a way that the unit can be easily removed for future maintenance and inspection. Refer to the installation drawing provided with your unit for the dimensions of the humidifier.

NOTE

Working clearance requirements need to be established prior to mounting the unit. Refer to local and national electrical codes.

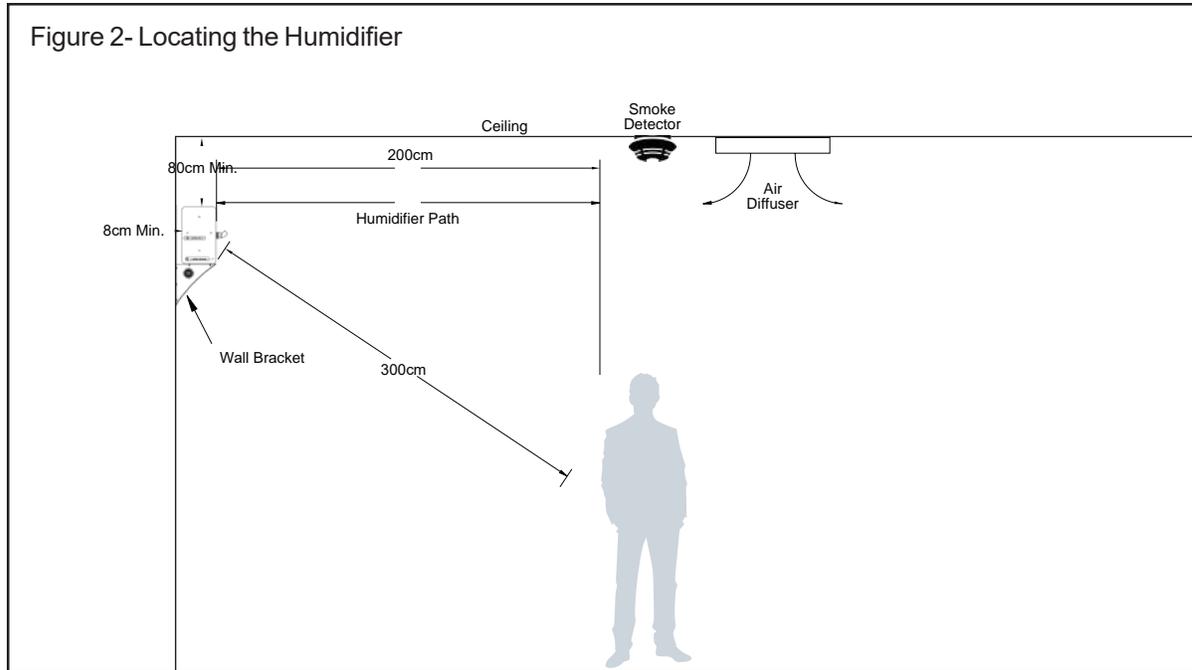
When selecting the installation location, attention should be paid to the air flow in the room so that the atomized mist can be uniformly diffused throughout the room. If any obstacle exists in front of the atomized mist outlet, the mist will be con-densed on the obstacle to form water drop-lets.

Figure 1- Installation of Humidifier



G14-S Ultrasonic Humidifier Installation, Operation & Maintenance Manual

The humidifier must be installed horizontally and level. Prepare hanging bolts for ceiling or brackets for wall (see Figure 1). The distance from the humidifier to the ceiling should be a minimum of 80cm and the distance to the wall 8cm.



NOTE

Humidity control can only be achieved in a sealed room or if the room has vapor barriers installed. It is recommended that walls, ceilings and floors be sealed to prevent migration of humidity.

2.3 Mounting/Placement

KLINSPOT DOOEL ultrasonic humidifiers are designed for mounting to a flat surface. The device has its own brackets for wall mounting. The kit contains Ss304 screws for mounting the humidifier to the bracket. The humidifier on the underside already has nut holes through which it is secured with the set screws. Wall mounting screws are not included.

2.4 Cat's eye label

You determine the horizontal mounting point with a label. Follow the cat's eye label located on the device cover to level the horizontal mounting surface.

Figure 3- Cat's eye label



2.5 Supply and Water Release Piping

The humidifier will require a field installed water supply line and water release line. Refer to the piping diagram provided with your unit for details. For the water supply, use DI or RO water. The water supply to the humidifier cannot be taken directly from the public water service pipe. Untreated supply water will cause a problem in the room where “white powder” is produced after evaporation from calcium or magnesium dissolved in the water. In cases where water quality, especially “residue from evaporation”, “pH”, “total hardness” and “water conductivity” exceeds or is outside the range of standard, routine maintenance intervals for keeping normal operation will be shorter than usual. Also, the operating life of the transducers and print plates will be significantly reduced.

CAUTION ⚠

It is essential that DI or RO water be used as the supply water source to maintain warranty coverage. The use of untreated water will VOID THE WARRANTY.

NOTE

The water supply piping must be non-corrosive stainless steel or poly tubing rated for use with de-ionized water

Prepare the water supply piping. The water supply piping should be equipped with a water supply valve, (user provided), at a place as close as possible to the humidifier. The valve must be rated for use with DI water. After the water supply valve is installed, flushing should be done by supplying water, (see Section 3.0, “Trial Operation”). This is a necessary step to prevent chips and oil in the piping from entering the humidifier.

Connect the water supply piping to the humidifier by means of a 8mm high pressure pipe .A water supply and water release fittings are provided on the side of the humidifier . Push the pipe in fast connector coupling the connection on the humidifier.

Figure 4- Piping Connections

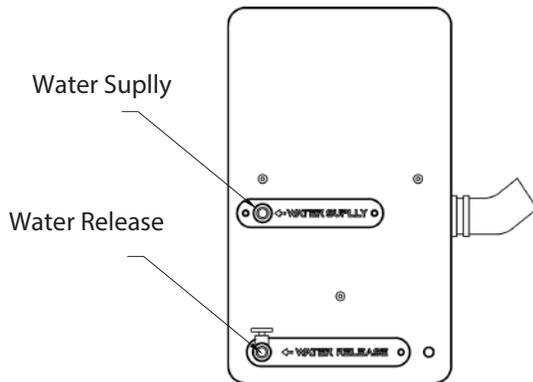
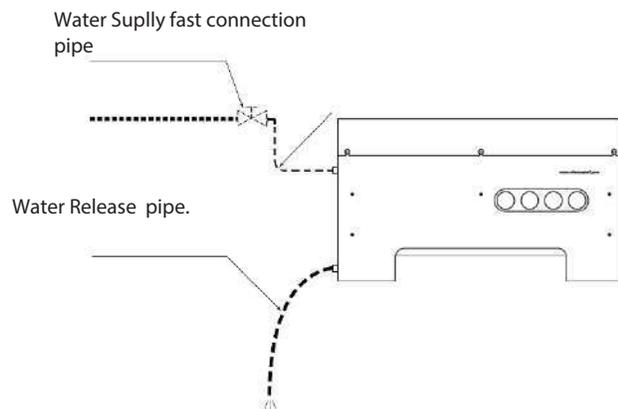


Figure 5- Piping explanation



Install an isolation valve in the supply water line for maintenance purposes.

If there is a risk that the water supply piping could freeze, wrap the piping with insulating material.

Drainage piping must be provided from the water tank for safety should any failure or problem occur it should be connected with tubing so that overflowing water can be directed into a drain pan or an appropriate place such as building drain. The overflow tubing must be sloped downward and away from the unit and the end should not be plugged.

NOTE

Water Release fast connection pipe. This valve is used only in case there is a need to empty the internal tank. The valve should be closed.

2.6 Main Power And Control Wiring

For wiring, refer to the electrical drawing supplied with your unit to determine the total number of interconnecting conductors required for your system and for the proper wire terminations.

For internal wiring of the humidifier, see the “Electrical Circuit Diagrams” on page 7-2.

NOTE

Wiring terminations may become loose during transit of the equipment therefore, verify all wiring terminations are secure prior to operation.

WARNING

Verify that the main power supply coincides with the voltage, phase and frequency information specified on the system nameplate. The nameplate also provides the full load amps, the current that the unit will draw under full design load, the minimum circuit ampacity for wire sizing, and the maximum fuse size for circuit protection. The power source must be provided with a circuit breaker for safety. Ensure a ground is connected to the unit. The humidifier is rated to operate with an input of 220VAC/single phase. To maintain warranty coverage, never allow the humidifier input voltage to exceed 240 volts as damage will occur to the humidifier power supply. It is important that the taps be checked with a voltmeter to ensure the voltage is within the proper range.

2.7 Humidistat

The humidistat may be optionally provided by KLINSPOT DOOEL. Sensor should be installed at a well ventilated place where changes in room humidity can be accurately sensed. If customer provided, the humidistat must be a normally open dry contact type which closes when the relative humidity drops to a user selected setpoint. Refer to the electrical drawing for the voltage and current rating requirements for the contact. When one humidistat is used to control multiple humidifiers, relays should be provided so each humidifier has an independant contact.

3.0 TRIAL OPERATION

3.1 Initial Operation

3.2 Initial Operation Checklist

For new installations, ensure the unit is ready to operate by going through the following checklist prior to start-up:

1. The humidifier is installed horizontally and level.
2. No obstacle is within 3m in front of the atomizing direction.
3. The electrical wiring is correctly connected.
4. De-ionized or reverse osmosis water supply is used.
5. The water supply piping and overflow piping are correctly connected and secured.
6. All parts are correctly installed.

After the above items are checked, the trial operation may begin.

3.3 Procedure for Initial Operation

1. Open the water supply valve allowing water to flow to the unit.
2. Set the humidistat to a desired humidity level.
3. Turn the main power source switch (circuit breaker) to ON.
4. If the humidistat is ON, power is supplied to the humidifier, the water supply is started and when the required water level is reached, atomizing starts.

After operation is started, check the following items on a regular basis:

Atomizing is visible through all the mist blow tubes.

Check the humidifier parts, drainage pipe and other piping for signs of leaking water.

By operating the ON/OFF contact of the humidistat, ensure that it is interconnected properly and controls operation of the humidifier.

Check to see that the mist diffusion is good and that objects in the room or any obstacle is not directly exposed to the mist.

After the above items are checked and if no trouble is found, the trial operation is completed.

3.4 Purge the Water Line

The first time the unit is operated, metal shavings or debris that may form during the installation process will be flushed through the supply water piping. After performing the steps in Section 3.1.2 above, follow the steps below to purge the water line:

Set the main switch of the power source to OFF for safety.

Close the water supply valve.

Release the water tank drain valve and drain the tank. After draining, securely close water release valve.

4.0 OPERATION

4.1 Precautions

The screw provided on the side of the humidifier for adjusting air volume should not be loosened except when adjustment is necessary.

Do not remove the cover of the humidifier during operation.

Do not block the outlet of the mist blow tubes. It could cause a failure when the mist flow is reversed.

Drain the water from the water tank for sanitary reasons if the unit is turned off for more than 3 days.

4.2 Operation Procedure and Control

1. Open the water supply valve and supply water to the unit.
2. Check the setting of the humidistat and set it to a desired humidity level.
3. Turn ON the main power switch , supplying power to the humidifier.
4. When power is supplied to the humidifier, water flows into the unit. When the required water level is reached, atomizing starts.
5. During operation, stopping and restarting of the humidifier is controlled by means of the signal from the humidistat.
6. The water level in the water tank is maintained by means of the float switch and gravity valve.

4.3 Steps for Long Term Shutdown

When operation is stopped for a long time (one week or longer), the following steps must be performed. Also, refer to Section 5.1, "Periodic General Maintenance".

1. Set the main switch, from the power source to OFF. Close the water supply valve.
2. Drain the water tank.
3. Check and clean the water tank interior as follows: In a plastic container, dissolve 3.5 liters of hydrogen peroxide 1%. fill the device with the solution through the mist distribution pipes, turn it on for 15 minutes.
4. Empty the device of the liquid into the plastic container.
5. Use latex gloves for protection throughout the process.

For restarting operation after a long-term shutdown, see the previous Section 4-2, "Operation Procedure and Control".

5.0 MAINTENANCE/REPAIRS

5.1 Periodic General Maintenance

Systematic, preventive maintenance of the humidifier is recommended for optimum system performance. Routine periodic maintenance should include, but is not limited to the following:

- Tightening electrical connections.
- Cleaning, inspecting the unit's components visually.
- Checking the level of water and ensuring no leaks are present.

A system should be established to record any problems, defects or deficiencies noted by operators and discovered during maintenance inspections, together with the actions taken. For assistance, contact the KLINSPOT DOOEL Product Support Group. Ensure adherence to all safety precautions while performing any type of maintenance.

5.2 General

Before the maintenance inspection and repairs are done, be sure to set the power supply circuit breaker (main switch) to OFF and close the water supply valve.



WARNING

Turn off power to the unit unless you are performing tests that require power. With power and controls energized, the unit could begin operating automatically at any time.

CAUTION

The transducer is a very delicate part. When the water tank interior is cleaned, special care must be taken to ensure the transducer is not scratched on the surface with a screwdriver, etc.

Do not supply power to the ultrasonic nebulizer units while the transducer lead wires (red and black) are removed.

Proper tools must be used. Excessive tightening or insufficient tightening may cause failure.

When performing maintenance or repairs, care must be taken to ensure small parts such as screws will not be lost.

Care must be taken avoid injury by sharp edges of the sheet metal, etc.

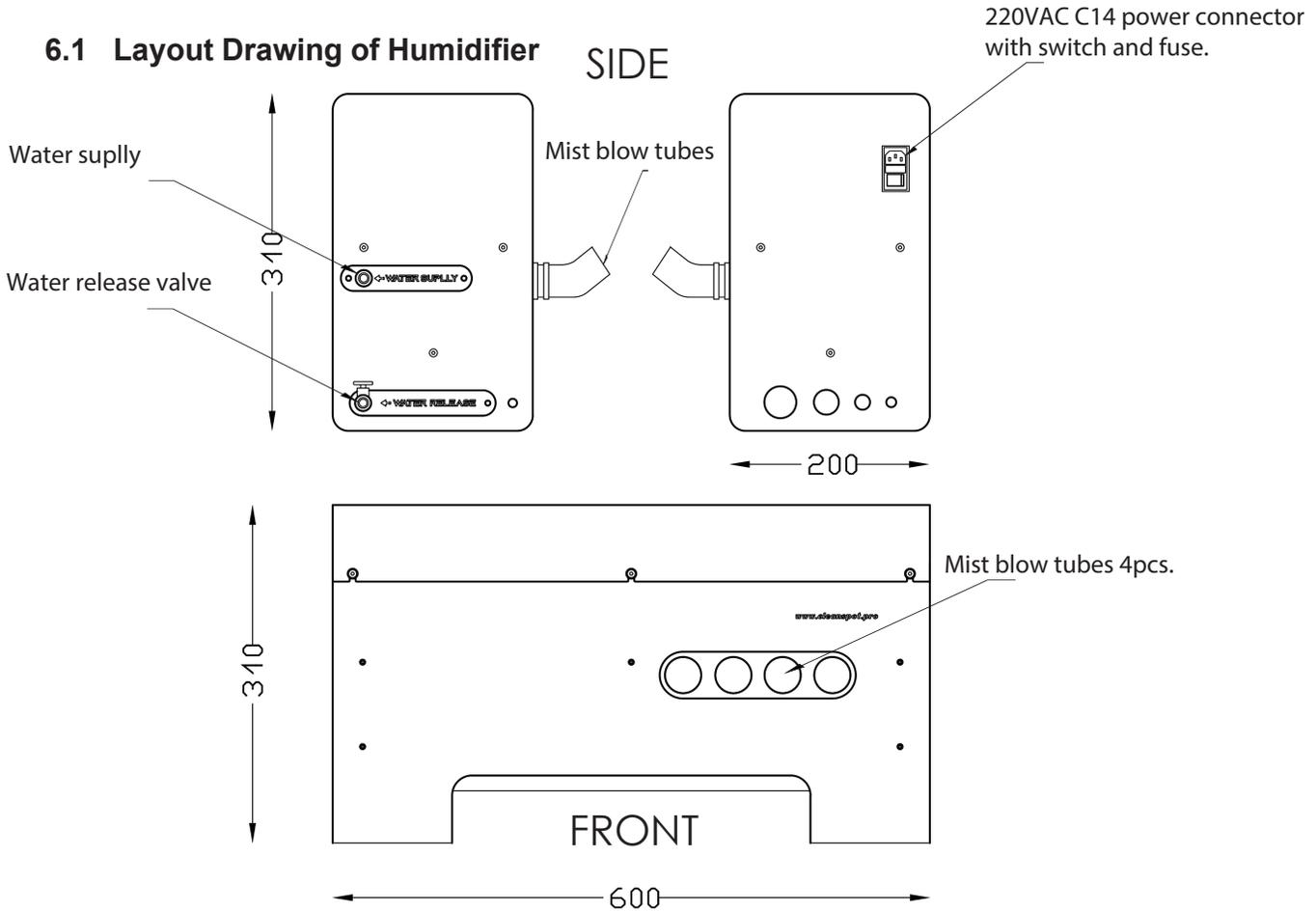
Solid scaffolding must be provided for working in high places.

Testing insulation resistance and dielectric withstand voltage should be avoided because the humidifier incorporates sensitive electronic parts.

When parts are replaced, genuine KLINSPOT DOOEL parts must be used. Contact KLINSPOT DOOEL for assistance.

6.0 DRAWINGS

6.1 Layout Drawing of Humidifier



7.0 Water Connection

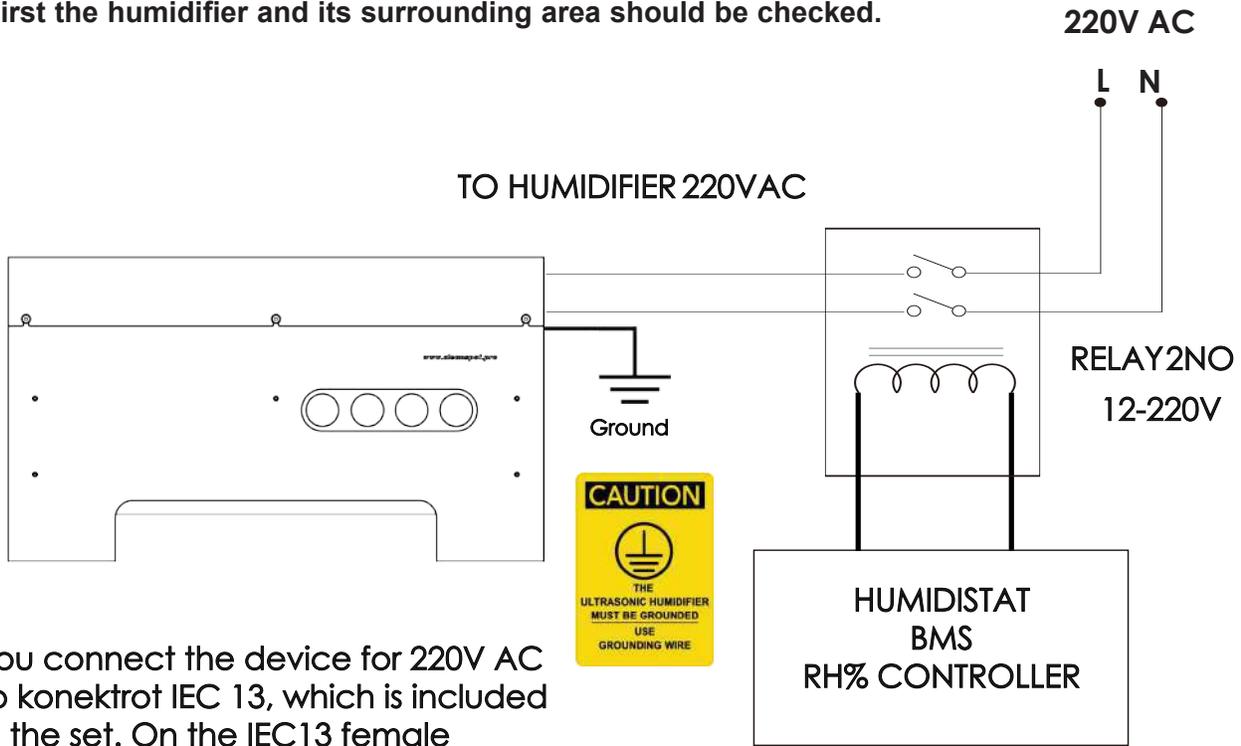
With the humidifier already installed, you attach the water inlet and outlet hoses. High pressure hose 10 meters 8mm is included in the set. A 1/2" quick connector to connect the hose to the water source is included in the set. In operation mode the water release valve must be closed.



8.0 Humidistat BMS RH% Controller Connection

Should any failure occur, make the necessary repairs referring to the following table. As a rule, power must be turned off when troubleshooting is performed but if it is absolutely necessary to troubleshoot when power is supplied, special attention must be paid to avoid electric shock and short-circuiting.

1 First the humidifier and its surrounding area should be checked.



You connect the device for 220V AC so konektrot IEC 13, which is included in the set. On the IEC13 female connector

C13 male connector wiring



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We want you to be entirely delighted with your experience dealing with us.

Please contact us if you have any queries regarding us, our products, or our services. We hope you will choose us as a project partner on a number of occasions.

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