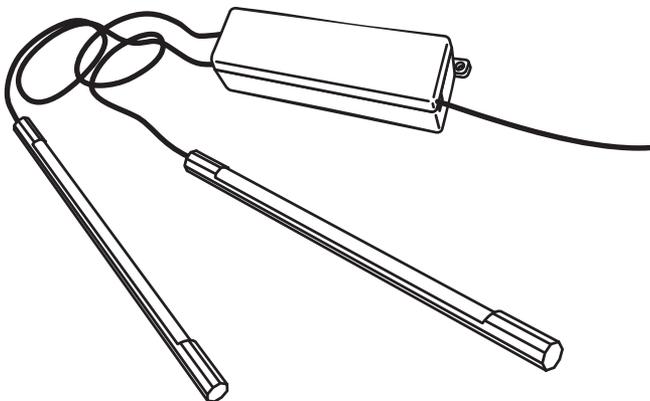


MINISTICK™ UV Germicidal Ultraviolet Light

Installation & Operation Manual



Part # 19401

GENERAL

This product emits germicidal ultraviolet (UV-C) light to dose the cooling coil, drain pan, and internal surfaces of HVAC systems for improved indoor air quality where the light shines.

BEFORE INSTALLING

- Read all instructions carefully. Failure to do so could damage the equipment or cause harm to yourself or others.
- Acknowledge all warnings.
- Only qualified technicians should perform the installation.

INCLUDED INSIDE BOX

- Ministick™ UV System
- 120/230VAC multi-voltage power supply
- UV-C Lamps (2)
- Hexagonal lamp brackets (4)
- Installation & operation manual
- Installation hardware
- UV warning label

SPECIFICATIONS

Dimensions:

Power Module: 1"H x 4.5"W x 1"D

Bracket: 1"L x 0.5" Diameter.

Electrical: 120/230VAC.

Lamp Length: 9"L. 0.375" Diameter.

Weight: 0.5lb

Humidity: Water resistant lamp.

Lamp Life: 18,000-hour.

Warranty: 2-year on power module. 2-year on lamp.

U.S. Patent Nos. 5,334,347, 5,817,276, 6,245,293, 6,267,924, 6,280,686, 6,313,470, 6,627,000, 6,539,727, 6,932,494.

EPA Establishment No. 73316-TX-1

Visit <http://www.dustfree.com/testing> for a list of micro-organisms inactivated by Dust Free® products.

The product and technologies described are not medical devices, and are not intended to diagnose, treat, cure, or prevent any disease or illness.

UV INSTALLATION NOTES

This device is typically used in mini split systems and other limited space applications. Because space is tight, the best place for mounting the UV lights is usually inside the supply vent with the light shining onto the blower wheel (which is prone to the worst mold growth.)

The unit should be mounted directly to a metal surface.

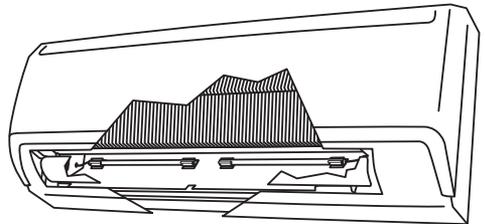


Figure 1. Cutaway view of typical Ministick UV installation in mini split.



WARNING

UV Light Hazard.

Can cause serious eye and skin damage.

Do not look at UV-C light. Wear UV-C eye and skin protection.

UV LAMP MOUNTING

- Determine the best location for the UV lamp brackets and clean the area. Slide the mounting brackets onto the ends of UV lamps. (Figure 2.)
- Peel off paper from the adhesive backing on the mounting brackets. Press the lamp with the lamp brackets firmly in place about 2" from blower wheel. (Figure 3.)
NOTE: Clock the lamp in the hexagonal lamp brackets so that the UV lights shine on the blower wheel and mold prone areas, NOT INTO THE ROOM.
- Pass the UV lamp cables through the back of the AC system. (Figure 4)

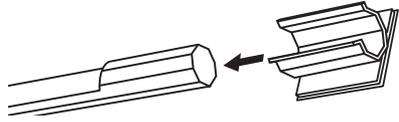


Figure 2. Attach mounting brackets to lamp ends.

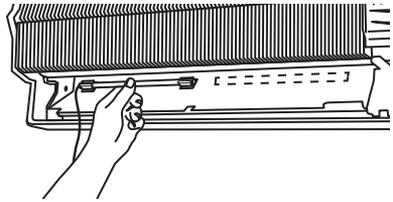


Figure 3. Peel adhesive backing and attach lamp in position.

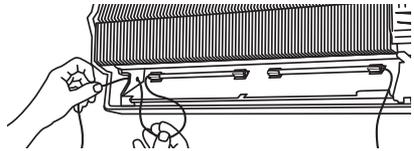


Figure 4. Pass lamp cords through AC system.



NOTICE

Clean lamp prior to installation.

Use a cotton cloth to remove dirt and fingerprints. Failure to clean the lamp could shorten the lamp's lifespan.



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CONNECT POWER SUPPLY

- Remove the control box cover and connect the wiring harness as shown. (Figure 4.)
- This device comes with one multi-voltage power supply, suitable for either 120V or 230V input.
- Ministick™ UV multi-voltage ballast wiring: Black to hot terminal. White to neutral.
- **Note: Some indoor systems may require additional wiring to provide line voltage to the device power supply.**

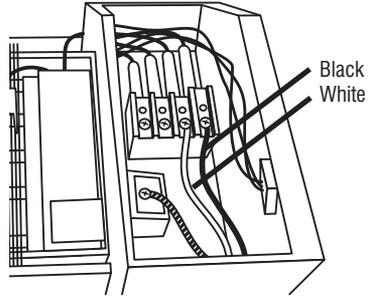


Fig. 4 Connect wiring harness.

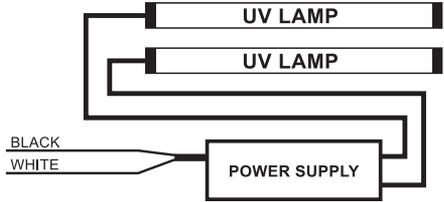


Fig. 4A Wiring diagram.

FINAL INSTALLATION

- Connect lamp cords to power supply.
- Tuck the power supply into the line chase on the back of the AC unit or place it under the control box or other secure location. (Figure 5.)
- Return power to the system and confirm that the UV device is working.
- Apply the UV warning label in an appropriate location.

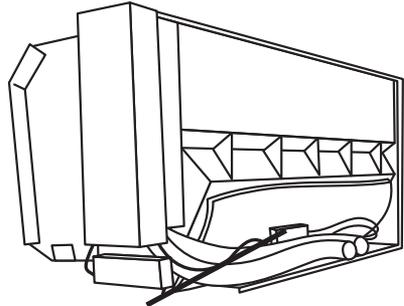


Fig. 5 Secure power supply.



WARNING

Electric Shock Hazard.

Can cause injury or death.

Disconnect all electrical power supplies before servicing.



WARNING

UV Light Hazard.

Can cause serious eye and skin damage.

Do not look at UV-C light. Wear UV-C eye and skin protection.

WARRANTY

Dust Free LP warrants this Ministick™ UV-C Light, including ballast, and lamp(s), to be free from defects in materials and workmanship under normal use and service, for a period of two (2) years from the date of installation.

This warranty does not cover cosmetic damage, damage due to acts of God, damage as a result of handling or shipment, negligence, misuse, connection to improper voltage, improper maintenance, or abuse. This warranty is void if defect(s) result from failure to have this unit installed by a qualified, properly licensed, heating and air conditioning contractor in compliance with all local building and construction codes.

Dust Free LP's exclusive obligation under this warranty shall be to supply, without charge, a replacement for any covered component of the Ministick UV-C Light which is found to be defective within the parameters defined herein. Dust Free LP reserves the right to replace or repair the defective part or component.

DUST FREE LP SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. (Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.) THE WARRANTIES SET FORTH HEREIN ARE EXCLUSIVE AND DUST FREE LP EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, WHETHER WRITTEN OR ORAL, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, WORKMANSHIP, OR FITNESS FOR A PARTICULAR USE. If the limited warranty is void due to failure to use a qualified contractor all disclaimers of implied warranties shall be effective upon installation.

How to make a warranty claim or have questions answered:

Should you have a warranty claim or questions about the warranty policy, contact the distributor or dealer from which you purchased the product. Proof of original purchase and proof of identity that the original purchasing party is filing the claim is required in order to initiate a warranty claim. Defective parts must be returned no later than thirty (30) days after the failure to the installing contractor together with the model number, serial number, and date of installation. All service and removal must be performed by a licensed HVAC contractor. You must pay shipping charges and all other costs of warranty service. Warranty is only valid the United States and Canada.

THIS WARRANTY SHALL NOT OBLIGATE THE MANUFACTURER FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY THE INSTALLING CONTRACTOR AS CONTRASTED TO DEFECTS IN THE GERMICIDAL LIGHT ITSELF.

NOTE: Do not return any products or parts to the factory without a factory issued Return Authorization number issued by the Dust Free LP customer service department.

In the event you have any questions concerning the use and care of this product or this warranty which have not been answered to your satisfaction by the distributor or dealer, please call or write the factory.

Dust Free®

PO Box 519, 1112 Industrial Park Drive
Royse City, TX 75189
1-972-635-9564
www.dustfree.com