

**Front****Back**

AirComfort25

SKU: AC25-890-8083-25

- 7 x 2 x 3 in. UVC-LED Disinfection Fixture
- Compact design with shatterproof LED
- 15,000 hour rated life
- Kills mold, mildew, viruses, and bacteria on and around your HVAC coil
- Stops foul odors like dirty sock smell
- Air flow sensor to power only when fan is running
- Easy install with supplied magnets or self tapping screws
- Ozone and mercury free

PRODUCT DESCRIPTION

The AirComfort25 is engineered to inhibit the growth of mold, mildew, bacteria, and other microorganisms on evaporator coils and throughout the HVAC system. Continuous UV-C treatment also helps minimize musty odors, including the common "dirty sock" smell, while minimizing biological buildup in the drain pan and condensate line that can contribute to clogs.

The AirComfort25 is designed to treat any residential ducted HVAC system with no maintenance for up to 15,000 hours of treatment life. The system can easily be installed, using either self-tapping screws or the magnets included, above or below the evaporator coil. The powerful LED light should be installed in a location where it is fully shining on the evaporator coil to provide complete treatment. Optional fan-linked operation means it only runs when needed, extending real-world lifespan well beyond traditional UVC lamps, with instant-on performance and no degradation from frequent cycling.





TECHNICAL SPECIFICATIONS

SKU	AC25-890-8083-25
WAVE LENGTH	280 nm
LED UV Power	25 watts
Input Voltage	48V DC
Power Factor	As specified in the LED Driver
Total Harmonic Distortion	As specified in the LED Driver
Frequency	50 Hz to 60 Hz
Light Beam Angle	102 Deg.
Operating Temp.Range	10 to 50 Deg Cel
Application	Germicidal
Electrical Cert.	Not known
Connection Type	QCD Connector (Quick Connect & Disconnect
Surge Protection	As specified in the LED Driver
IP Rating	IP44
Compliance	CE
Optical Specification	
Total Radiant Flux	1620 mW
Max Rated Power	25 Watt
Operational mode (stand-alone)	Constant Current
Operational mode (daisy chain)	Constant Current
Active Cooling Specification	
Model	06015SS-24L or equivalent
Dimensions	60mm x 60mm x 15mm (6015)
Voltage	24VDC/12VDC
Current/Power	2W each x 2 fans
Speed	3200 RMP
Airflow	17.1 CFM x 2 fans
Bearing	Sleeve
Noise Level	26.0 dB
Connector	3-Wire Leads
Features	Auto-restart, locked rotor sensor
Material	Plastic frame and blade
Operating Temp	Dry Run -20°C to +70°C

SAFETY INSTRUCTIONS

WARNING!

- Do not install or service if not certified Electrician or HVAC installer.
- Disconnect power to the Air Handling Unit (AHU / RTU) before servicing.
- Do not make any changes to the wiring or electrical components during installation.
- Do not expose wiring to edges of sheet metal or other sharp objects.
- Do not look directly at the light source.
- You must wear UVC protective eyeglasses when installing, servicing, or handling any UVC light.
- Do not expose your skin directly under the light source.
- You must wear a long sleeve shirt and latex or work gloves when installing, servicing, or handling any UVC light. Make sure your skin is not directly exposed to the UVC light.
- Do not remove the warning label that is attached on the AirComfort UVC-LED light fixture.
- **Please attach the extra WARNING labels provided with the fixtures on all access doors and hatches to the AirComfort UVC-LED light fixture.**
- All access doors and hatches to the AirComfort UVC LED light fixture must be locked.
- Always keep the products containing UV LEDs out of the reach of children and other untrained persons.



TERMS CONDITIONS:

- **If you do not follow proper UVC light handling protocols as indicated above, EIRX, LLC, its owners, employees, agents, or resellers (henceforth referred to as "EIRX") will not be responsible and cannot be held liable for any damage caused to you by the AirComfort UVC LED light radiation.**
- **By installing AirComfort UVC-LED Air Duct Light, I/we agree on the precautions I/we must take to protect myself/others when handling the UVC LED light and shall follow all the protocols and wear the UVC protective eyeglasses. I/we shall not expose any of my/our skin to the UVC light. I/we understand that it is my/our responsibility to protect myself/ourselves and my/our employees from direct exposure to the UVC light. It is also my/our responsibility to train my/our employees on the UVC light safety protocols. If I/we do not follow the UVC light safety protocols and my/our employees or I/we are injured due to my/our negligence, I/we will hold EIRX harmless and waive and forfeit all our rights for any claim or damages.**



INSTALLATION MATERIALS & INSTRUCTIONS

MATERIALS:

1. SUPPLIED BY EIRX:

- a. AirComfort25 LED Fixture
- b. Meanwell APC-25-350 Power Supply
- c. DuraSeal Gel Connectors (x2)
- d. 4 x ¼" self-tapping screws to secure airduct bracket
- e. 4 rare earth magnets
- f. 4 air duct brackets

2. TO BE PROVIDED BY HVAC INSTALLER/ ELECTRICIAN:

- a. Airflow Switch (if not powering from fan relay) see link below:
<https://www.grainger.com/product/COLUMBUS-ELECTRIC-Air-Sensing-Switch-Adj-2E462?searchQuery=2E462&searchBar=true>
- b. TREMCLAD Clear UV Resistant Spray - to spray all cables, wires or components that may be exposed to the UVC-LED light.



INPUT POWER:

You may use an airflow switch to automatically turn the AirComfort UVC-LED fixture when the fan comes on and off when the fan turns off.

OR

You may use the fan relay to automatically turn the AirComfort UVC-LED fixture when the fan comes on and off when the fan turns off.

INPUT VOLTAGE:

120-277v is standard,
 347v & 480v models are optional

WIRING DETAILS:

Ground – Green/Yellow
 ACL (Live) – Brown/Black
 ACN (Neutral) – Blue/White

SPECIAL NOTES:

1. When the AirComfort UVC-LED product is powered up the LEDs will only have a very **faint** light blue glow to indicate that the UVC-LEDs are on, it will not be bright (pictured on the right).

2. Spray all cables, wires or components that may be exposed to the UVC-LED light with the clear **TREMCLAD UV resistant coating**.



INSTALLATION LOCATION

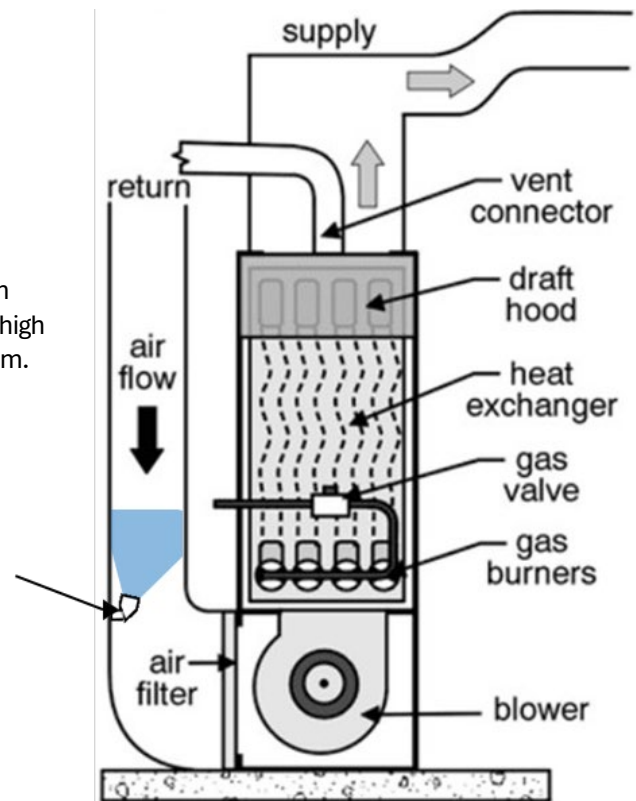
The AirComfort25 UVC-LED should be installed:

1. In the air return duct, preferably in the plenum **BEFORE** the air handling units (AHU)
2. Pointed at the coil for continuous coil cleaning.
3. In the supply duct.

UVC-LED light will have to be installed in the cool-air return duct before the furnace. It is attached to the duct wall with a high powered magnet to withstand vibration from the HVAC system.

Note: the exact location of the installation in the return duct depends on the individual home set up. These are general outlines.

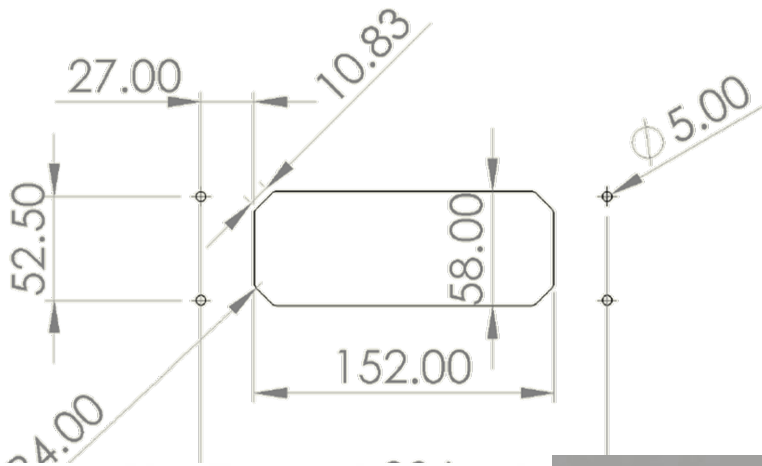
To get proper access to the location where the light will be installed, at least an 8"x 5" oval hole to be cut to make install easier.



Mounting Instructions

Exterior Mount

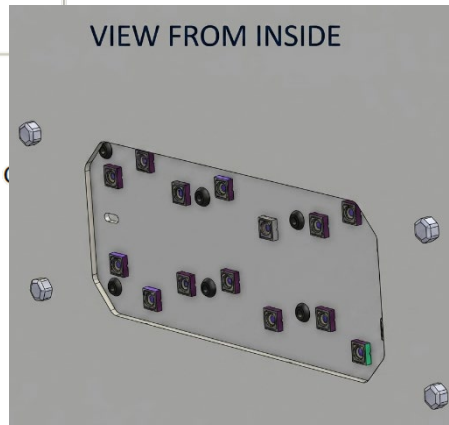
1. The power supply can be mounted externally on any side of the air duct that is easily accessible.



VIEW FROM OUTSIDE



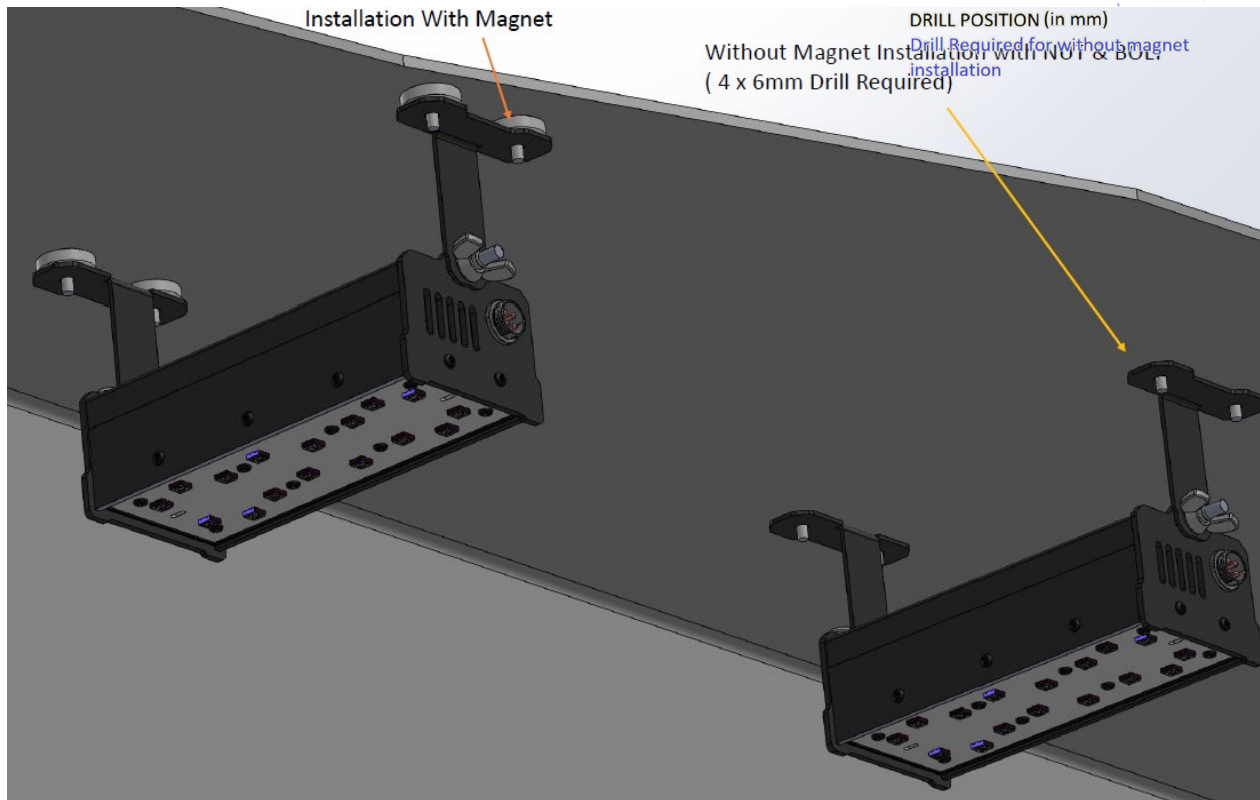
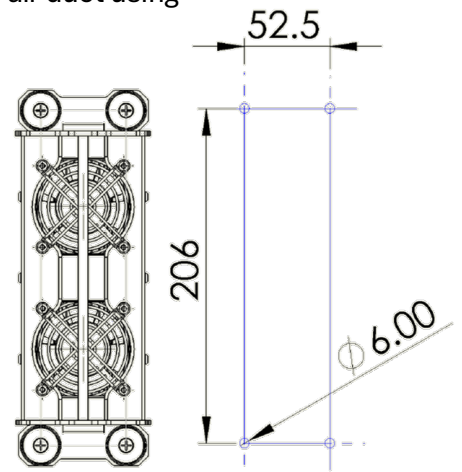
VIEW FROM INSIDE



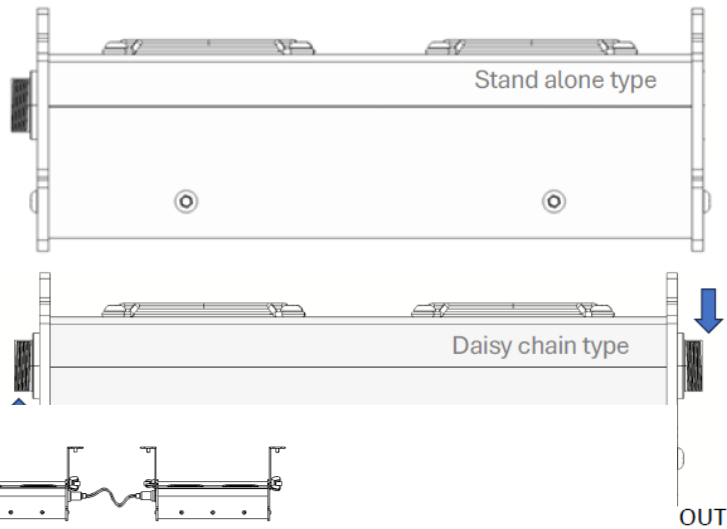
Interior Mount

The AirComfort25 can be mounted on the top or bottom of the return air duct using 1/2" self-tapping screws or rare earth magnets.

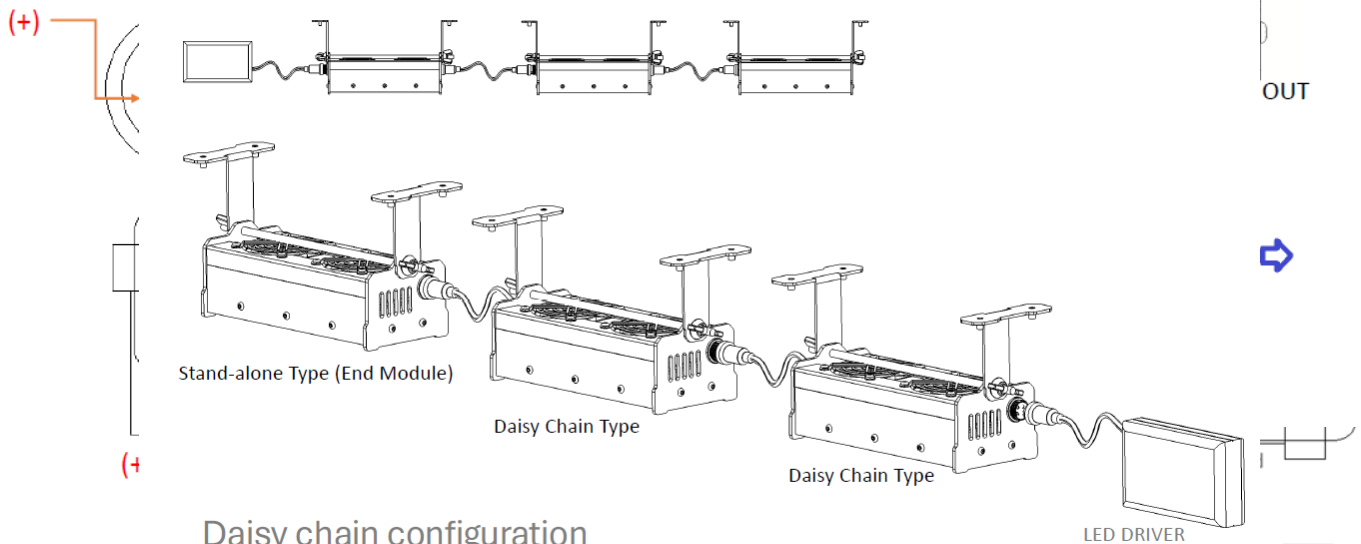
1. Drill 1/2" hole for the power cord.
2. Feed power cord up through the hole and seal with silicone.
3. The connection to the AirComfort UVC-LED device will be made via the DuroSeal Gel Connector (necessary for water resistance).



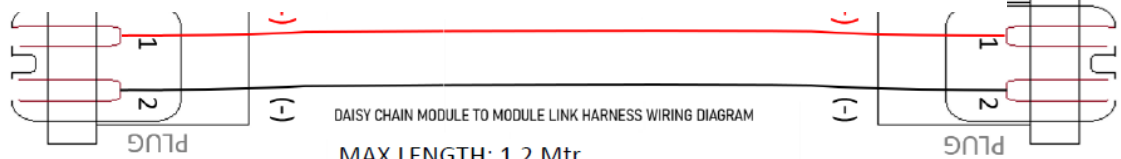
WIRING INSTRUCTIONS Daisy Chain



SOCKET FRONT VIEW

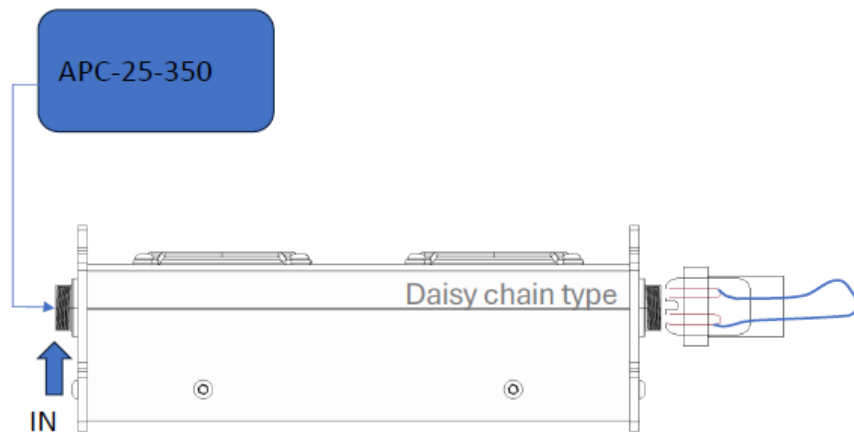


Daisy chain configuration



MAX LENGTH: 1.2 Mtr
Wire Cross section: 1 Sq. mm

APC-25-350



How can I test/use a Daisy Chain type module as a stand-alone module?

Connect a Meanwell APC-25-350 LED Driver to the power inlet socket. Now connect a looping plug with pin 1 and pin 2 are shorted with wire to the outlet socket.

This will complete the circuit and work as standalone model.

RECOMMENDED SERVICE

~ Please wipe clean the AirComfort25's quartz lens with a soft cloth or duster EVERY time you replace the HVAC filters.

~ Please check the UVC performance annually using dosimeter cards that are available from EIRX. The dosimeter card center circle will turn to orange from yellow within 30 to 60 seconds which will indicate that the UVC radiance is working correctly (see picture below). You MUST use PPE and UVC protective eyeglasses during this test.

Dosimeter Cards

