UVC
Healthy Climate®
Ultra-Violet Germicidal Lights - 60 Hz

BULLETIN NO. 210508
April 2020
Supersedes February 2017

ULTRA-VIOLET GERMICIDAL LIGHTS
(UVC type)

Electrical Data
24V = 24VA - 50/60 hz
41W = 41 Watts at 110V/230V - 1 phase - 50/60 hz

MODEL NUMBER IDENTIFICATION

UVC - 41W - S

Model
Ultra-Violet Germicidal Light (UVC type)

Number of Lamps
S = Single Lamp
D = Dual Lamps

Electrical Data
24V = 24VA - 50/60 hz
41W = 41 Watts at 110V/230V - 1 phase - 50/60 hz

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APPROVALS AND WARRANTY

APPROVALS
• ETL, cETL, UL and ULC certified to Standard 1598
• FIFRA (Federal Insecticide Fungicide Rodenticide Act) registered, file number 73316

WARRANTY
• All covered components:
  • Limited five years warranty in residential applications
  • Limited one-year in non-residential applications

NOTE - Lamps are routine maintenance items and are not covered under the warranty.
NOTE - Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.
APPLICATIONS

• Lights are designed to fit into a wide variety of applications including indoor coils, air handlers and supply and return air duct work
• Installation requires drilling a one inch diameter hole per lamp (two holes required for dual lamp model)

NOTE - CBA27UHE air handlers have factory provided knockouts in the coil delta plate for mounting light within coil area.

• The lamp emits C-Band ultra-violet (UVC) energy at 253.7 nanometers, which is proven to be effective in reducing microbes such as viruses, bacteria, yeasts, and molds
• This process either destroys the organism or controls its ability to reproduce
• UVC germicidal light greatly reduces the growth and proliferation of mold and other bioaerosols (bacteria and viruses) on illuminated surfaces (particularly coil and drain pan)
• Surfaces must be cleaned prior to UVC light being installed

SAFETY FEATURES

• Any exposure to ultra-violet (UVC) light will cause significant eye damage and may cause skin damage
• Integrated safety interlock switch on lamp base prevents lamp operation when lamp is removed from lamp base for servicing
• Two safety interlock switches (wired in series) furnished on dual lamp model
• Waterproof power cord fitting on lamp base holder assembly

COMPONENTS

• Light assembly consists of lamp holder sub-assembly (two for dual lamp model), enhanced ballast, lamp(s), and all necessary mounting hardware

NOTE - Shielding baffle for lamp is available and must be ordered separately.

• Mounting template provided for ease of installation
• Separate ballast mounts near UVC light assembly
• Lamp base with tool-less (twist-lock) lamp removal for servicing and replacement

FEATURES

LAMP(S)

• Low power consumption, high UVC output

ENHANCED BALLAST

• Enhanced ballast provides UVC lamp operation at a full range of operating conditions
• Electronic rapid-start ballast
• Heavy-duty flexible 6 ft. power cord (18 AWG, SJT, UL rated) with in-line disconnect

LED Indicators

• LEDs on ballast show lamp operation status:
  • “Green” LED indicates power “on”
  • “Blue” LED indicates lamp operation
  • Two blue LEDs furnished on dual lamp model

Maintenance Item / Optional Accessories

Replacement Lamps

• Recommended annual replacement of the lamp(s)
• Tips are color-coded for correct voltage replacement
• See Specifications table for order number

Shielding Baffle

• Required when installing light above a non-UVC resistant component, such as a filter
• Available for 14 and 16 in. lamp lengths

Transformer

• Two, optional 24V secondary transformers are available for UVC-24V models
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>UVC-24V</th>
<th>UVC-41W-S</th>
<th>UVC-41W-D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Lamps</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>(^1) Microwatt/cm² Output</td>
<td>234</td>
<td>546</td>
<td>(2) 546</td>
</tr>
<tr>
<td>Shipping Data lbs. - 1 package</td>
<td>4</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Electrical Data</td>
<td>Voltage - 50/60 hz - 1 phase</td>
<td>24V</td>
<td>110/230V-1 phase</td>
</tr>
<tr>
<td></td>
<td>Input Line Current (Amps)</td>
<td>1.0</td>
<td>1.3</td>
</tr>
<tr>
<td></td>
<td>Input Power (W)</td>
<td>24</td>
<td>41</td>
</tr>
</tbody>
</table>

### MAINTENANCE ITEMS / OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

<table>
<thead>
<tr>
<th>Replacement Lamp(s)</th>
<th>UVC-24V</th>
<th>UVC-41W-S</th>
<th>UVC-41W-D</th>
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</thead>
<tbody>
<tr>
<td>16 in. Lamp (Blue Tip) 24V</td>
<td>Y0390</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>16 in. Lamp (Green Tip) 110/230V</td>
<td>Y0391</td>
<td>•</td>
<td>3 •</td>
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<tr>
<td>Shielding</td>
<td>For 14 in. Lamp</td>
<td>Y5172</td>
<td>•</td>
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<tr>
<td>Baffle</td>
<td>For 16 in. Lamp</td>
<td>Y5171</td>
<td>•</td>
</tr>
<tr>
<td>Transformer</td>
<td>120V/24V 40VA</td>
<td>42J32</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>120-240V/24V 75VA</td>
<td>12P61</td>
<td>•</td>
</tr>
</tbody>
</table>

1 Test conditions: new lamps at 100 hours, 500 fpm air velocity, 60°F air temperature, measured 12 in. from lamp.
2 24VA capacity step-down transformer required (not furnished).
3 Two lamps required.

### DIMENSIONS

#### UVC-24V

- Connector
- Lamp
- 13-1/4 (337) - 14 in. lamp
- 15-1/4 (387) - 16 in. lamp

#### UVC-41W-D

- Connector
- Lamp
- Enhanced Ballast (L x W x H)
  - 4-3/4 x 2-1/4 x 2
  - 298 x 70 x 41

#### UVC-41W-S

- Connector
- Lamp
- 15-1/4 (387)

1 Optional Lamp for UVC-24V
<table>
<thead>
<tr>
<th>Sections</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Features</td>
<td>Updated to reflect usage with latest model air handler.</td>
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