







# Helo F2

UV DISINFECTION FROM ABOVE

The Helo F2 disinfects your space, delivering disinfection from above. It is installed simply by positioning it in a drop-in grid ceiling or can be recessed in a hard lid ceiling, suspended or wall mounted. It emits broad spectrum UV light to eliminate up to 99.9% of the bacteria, viruses, and fungi in a space<sup>1</sup>. In rooms that have been cleaned of mold, the unit will help control return growth if used routinely<sup>2</sup>.

The unit can be ordered for scheduled commissioning or integration into the facility Building Automation System (BAS). Scheduled commissioning is completed by a PURO Lighting representative. Units integrated into BACnet are programmed through the BAS dashboard.

1. Independently validated to kill up to 99.9% of *E. coli*, MRSA, Salmonella enterica, Norovirus, human coronavirus 229E, *C. diff* and *C. auris*  
2. Research Journal of Microbiology, 2 (1), 42-49, 2007; Mycological Research, Vol. 92, Issue 3, 1989

-  **Broad Spectrum UV-C, UV-B and UV-A light to kill bacteria and viruses<sup>1</sup>.**
-  **Ceiling, suspended, or wall mounted installation to disinfect a room without staff assistance.**
-  **Programmed manually or integrated into building automation systems through BACnet.**
-  **Dual UV Light Engine with pulsed Xenon lamp for up to a 12' x 12' ft coverage area.**

POWERED BY VIOLET DEFENSE<sup>®</sup> TECHNOLOGY

# F2 HELO

## PRODUCT SPECIFICATIONS

### UV ILLUMINATION

Light Source  
Pulse Interval  
Wavelengths

Proprietary Pulsed Xenon Lamp  
1 UV Flash every 6 seconds

UV-C (200-280nm)      Germicidal  
UV-B (280-320nm)      Germicidal  
UV-A (320-400nm)      Bactericidal

Range  
UV Bulb Rated Life  
Optics

Up to 12' x 12' typical (144 sq feet)  
>2 Million UV Flashes  
Dual patented UV Light Engine with transmissive  
UV lens and pulsed Xenon UV lamp  
170°

Beam Angle

### ELECTRICAL SYSTEM

Input Voltage  
Max Current  
Average Power  
Power Connection

110V AC  
7 Amps  
125W during operation  
3-prong grounded plug (-P) or  
3-wire metal flexible conduit (-FC)

### PHYSICAL

Weight  
Housing/Finish

F2: 8.4 lbs, H2-DA-26: 3.1 lbs  
Brushed Aluminum

### ENVIRONMENT

Ambient Operating Temperature  
Ambient Operating Humidity

41°F to 104°F  
<80%RH non-condensing

### CERTIFICATIONS

Safety

TUV Certified, tested to UL 61010-1:2012;  
CAN/CSA C22.2 NO. 61010-1:2012

FCC  
RoHS

Compliant with Part 15 Class A  
Compliant

### WARRANTY

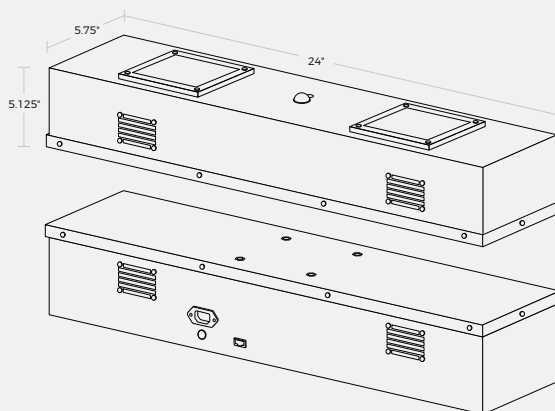
Warranty

1 year

## DIMENSIONS

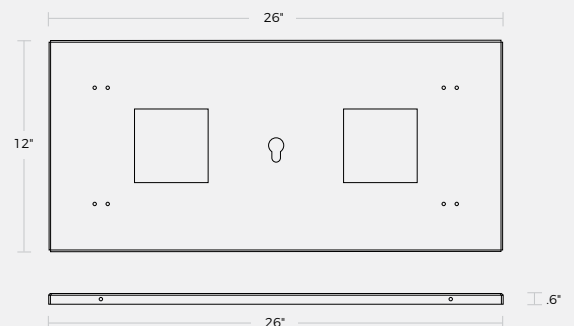
### Helo F2

Height: 5.125"  
Width: 24"  
Depth: 5.75"



### H2-DA-26

Height: 26"  
Width: 12"  
Depth: .6"



# HELLO F2

## CONTROL OPTIONS

**Controlled through BACnet** The unit can be switched on/off through the facility BACnet. Programming is done through the Building Automation Software system dashboard.

**Manually Controlled** The unit can be manually switched on/off for a single default or commissioned cycle through a switched or a remote-controlled outlet. Commissioning is done at the device using an Ethernet port and a simple setup wizard.

**Safety and Occupancy Sensors** The redundant safety systems ensure the unit will not activate while the room is occupied and will immediately suspend operations if motion is detected in a previously unoccupied room. If interrupted, the unit will resume its programmed cleaning cycle once motion is no longer detected.

## OPERATIONAL MODES

The unit can be ordered to operate in either a BACnet integrated mode, scheduled mode, or single cycle mode. The modes are configured at the factory and cannot be changed on the device.

**BACnet Integration Mode** Disinfection-on-Demand operation is programmed through the Building Automation Software (BAS) with the Helo F2 through BACnet.

The cycle time, cycle repeat, cycle schedule and motion sensor settings and unit on/off and initial activation are controlled through the system dashboard.

Devices ordered with the BACnet Integration Mode must be initially activated through the BAS software to operate.

NOTE: By default, this mode will have safety features DEACTIVATED.

**Scheduled Mode** The Helo F2 units are manually commissioned by a PURO Lighting representative. Commissioning for Disinfection-on-Demand includes cycle time, cycle repeat and cycle schedule settings.

**Single Cycle Mode** The Helo F2 units will run either a 10, 15, 20, 25, or 30 minute cycle once it is plugged in. The unit will not run another cycle until the power has been disconnected and reconnected.

Refer to the Commissioning Form on page 5 for more information on operational modes.

## INSTALLATION

### Wiring

H-F2-6-P unit ships with a 6 foot cord terminated with a grounded 110V plug.

- **110V Outlet** The unit can be plugged into a non-GFI 110V outlet. If an outlet is not accessible near the fixture location, you may require a licensed electrician to install an outlet. This configuration is most common when integrating the unit into the Building Automation System.
- **Switched 110V Outlet** The non-GFI 110V outlet may be a switched outlet for convenience, especially in manually commissioned and controlled units. If a switch is not available, you may require a licensed electrician to install the switch.
- **Wi-Fi Smart Outlet** The unit may also be plugged into a Wi-Fi or Bluetooth controlled smart outlet, eliminating the need to install a switch and using instead a smartphone based application to turn the unit on/off through the smart outlet.

H-F2-6-FC unit ships with a 6 foot metal flexible conduit to install per NEC and local codes.

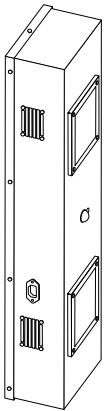
### Mounting

**Drop-in Ceilings** The Helo F2 can drop into a 24"x24" or 24"x48" grid ceiling.

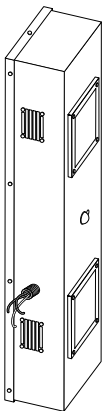
**Recessed or Ceiling Surface Mounted** The unit may be installed in a hard ceiling recessed opening or mounted on a ceiling.

**Suspended** Suspend the unit as a pendant to an appropriate height for coverage.

**Wall** The unit is compatible with a 100x100mm VESA wall mount, sold separately.



H-F2-6-P



H-F2-6-FC

# F2 | O | E | H

## CERTIFICATIONS



This device is tested and certified by TUV to UL specifications.



Tested to be compliant with FCC Part 15 Class A.

Internal components of this device are UL Listed, UL Recognized or CE listed. Independent lab testing has been conducted by accredited facilities, including Microchem Laboratory, an ISO 17025 accredited facility.

## NOTES

1. Disinfection is a function of device run time and the distance to the UV light source.
2. Operating Life is dependent on frequency and duration of disinfection cycles.

Cycle	Standard	Deep	Terminal
Time	30 min/day	1 hr/day	2 hr/day
Approx. Bulb Life	18.3 years	9.1 years	4.6 years

## CAUTION

CAUTION — IF THE FIXTURE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC. OR IF THE UNIT'S LED STATUS INDICATOR IS FLASHING RED), IMMEDIATELY TURN OFF POWER AND CONTACT MANUFACTURER.

INDOOR USE ONLY.

## HOW TO ORDER

Please specify components below using the letter code in bold to select the desired options.



Family	Model	Cord Length	Cord Termination	Controls	Wattage
<b>H</b> = Helo	<b>F2</b> = Fixture unit with Dual UV Light Engine	<b>6</b> = 6 feet	<b>P</b> = Three-prong grounded plug <b>FC</b> = Flex conduit	<b>COM</b> = Commissioned	<b>110</b> = 110V AC
Example order: <b>H-F2-6-P-COM-110</b>					

### Accessories

- H2-DA-26** = Accessory for Dual UV Light Engine in hard-lid ceilings: 26"x12" flange kit
- M-WMB-6524** = Tilt Wall Mount Bracket, Max Weight 30 lbs, VESA Patterns up to 100x100
- M-WMB-3613** = Fixed Wall Mount Bracket, Max Weight 66 lbs, VESA Patterns up to 100x100