







Helo F2

UV DISINFECTION FROM ABOVE

The Helo F2 disinfects a whole room, 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 space¹. In rooms that have been cleaned of mold, the unit will help control return growth if used routinely².

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 viruses¹.
-  Ceiling, suspended, or wall mounted installation to disinfect a room without staff assistance.
-  Programmed manually or integrated into building automation systems through BACnet.
-  12' Dual UV Light Engine with pulsed Xenon lamp for up to a 12' x 12' ft coverage area.

POWERED BY VIOLET DEFENSE® TECHNOLOGY

HELO F2

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
Up to 12' x 12' typical (144 sq feet)
>2 Million UV Flashes

Range
UV Bulb Rated Life

ELECTRICAL SYSTEM

Input Voltage
Max Current
Average Power
Power Connection

110V AC
7 Amps
125W during operation
3-prong grounded plug

PHYSICAL

Weight
Housing/Finish
Optics

F2: 8.4 lbs, H2-DA-26: 3.1 lbs
Brushed Aluminum
Dual patented UV Light Engine with transmissive UV lens and pulsed Xenon UV lamp
170°

Beam Angle

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

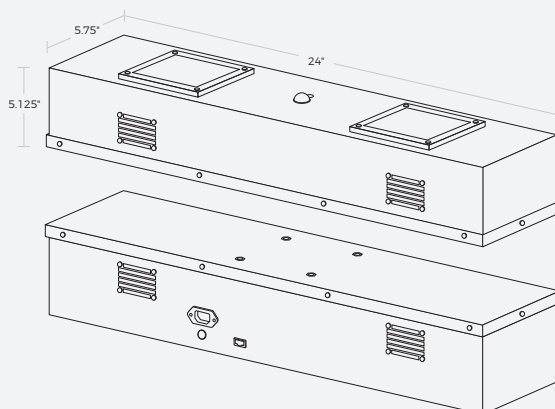
Warranty

1 year

DIMENSIONS

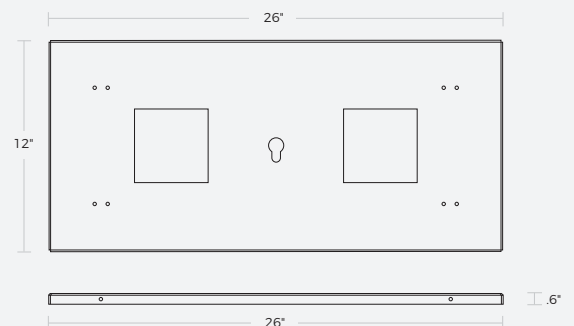
Helo F2

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



H2-DA-26

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



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

All units ship 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.

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.

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
H = Helo	F2 = Fixture unit with Dual UV Light Engine	6 = 6 feet	P = Three-prong grounded plug	SCM = Single Cycle Mode SCHED = Scheduled Mode AHU = Air Handling Unit	110 = 110V AC
Example order: H-F2-6-P-COM-110					

Accessories

H2-DA-26 = Accessory for Dual UV Light Engine in hard-lid ceilings: 26"x12" flange kit

Commissioning Form

Name

SO Number

Please choose one from the three commissioning options below.

1. Single Cycle Mode

10 min 15 min 20 min 25 min 30 min

Unit will run either a 10, 15, 20, 25 or 30 min cycle once it is powered on. The unit will not run another cycle until the power has been disconnected and reconnected.

2. Daily Scheduled Mode

How many cycles per day?
(Indicate with a number 1-8)

Duration for each cycle? (Choose one)

10 min 15 min 20 min 25 min 30 min

Please note time of day you would like the schedule to take place. Helo fixture should only be scheduled during times when the space will be unoccupied.

Notes

Units can be scheduled to run up to eight separate cycles per day. If scheduling more than once daily please designate in notes

3. Air Handling Unit Mode

Standard
(15-minute run every 3 hours)

High Intensity
(30-minute run every 3 hours)

For every 30 minutes of unit operation the fixture will automatically shut down for 15 minutes to ensure proper cooling and will continue after 15 minutes.

What time zone will the unit(s) be operated in?

Eastern

Central

Mountain

Pacific

Alaska

Hawaii

Notes

Full Name

Date