

The unit can be ordered for installation in a drop-in grid ceiling, recessed in a hard lid ceiling, surface or wall mounted, or used as a portable, table top unit. 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 or wall mounted installation to disinfect a whole room without relocation.



Programmed manually or integrated into building automation systems through BACnet.



Single UV Light Engine with pulsed Xenon lamp for up to a 10' x 10' ft coverage area.

POWERED BY VIOLET DEFENSE® TECHNOLOGY





PRODUCT SPECIFICATIONS

UV ILLUMINATION

Light Source Proprietary Pulsed Xenon Lamp
Pulse Interval 1 UV Flash every 6 seconds

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

Range Up to 10' x 10' typical (100 sq feet)

UV Bulb Rated Life >2 Million UV Flashes

ELECTRICAL SYSTEM

Input Voltage 110V AC Max Current 3.5 Amps

Average Power 60W during operation
Power Connection 3-prong grounded plug

PHYSICAL

Weight F1: 2.6 lbs, H1-DA-12: 2.1 lbs, H1-GA-24: 4 lbs

Housing/Finish Brushed Aluminum

Optics Single patented UV Light Engine with transmissive

UV lens and pulsed Xenon UV lamp

Beam Angle 170°

ENVIRONMENT

Ambient Operating Temperature 41°F to 104°F

Ambient Operating Humidity <80%RH non-condensing

CERTIFICATIONS

Safety TUV Certified, tested to UL 61010-1:2012;

CAN/CSA C22.2 NO. 61010-1:2012

FCC Compliant with Part 15 Class A

RoHS Compliant

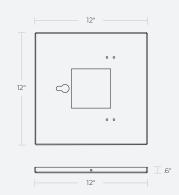
WARRANTY

Warranty lyear

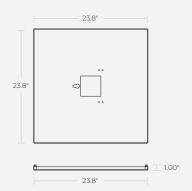
DIMENSIONS

Helo F1 (no flange)

Dimensions: 8.60" x 5.60" x 2.90" Installation: wall mount, surface mount or portable/table top use H1-DA-12 (12"x12" flange accessory) Dimensions: 12" x 12" x 0.6" Installation: recessed in hard lid ceiling



H1-GA-24 (24"x24" flange accessory) Dimensions: 23.80" x 23.80" x 1.00" Installation: drop-in grid ceiling







CONTROL OPTIONS

Controlled though 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 F1 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 F1 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 F1 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 outlet. If an outlet is not accessible near the fixture location, you may require a sufficiently rated, grounded extension cord or have a licensed electrician to install an outlet.

Switched 110V Outlet The non-GFI 110V outlet may be a switched outlet for convenience, especially in scheduled 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 F1 with its 24"x24" flange kit accessory is simply dropped into a 24"x24" or 24"x48" drop-in ceiling.

Recessed Hard Lid Ceilings The Helo F1 has an integrated 12"x12" flange kit accessory enabling it to be recessed in a hard lid ceiling.

Wall Mount, Surface Mount or Portable/Table Top Use The Helo F1 has attach points for a 100mmx100mm VESA mount for wall or surface mounting. The unit can also be used as a portable or table top unit.

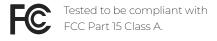




CERTIFICATIONS



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



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	F1 = Fixture unit with Single UV Light Engine	6 = 6 feet	P = Three-prong grounded plug	SCM = Single Cycle Mode	110 = 110V AC
				SCHED = Scheduled Mode	
				AHU = Air	
Example o	order: H-F1-6-P-SCM-110			Handling Unit	

Accessories

H1-DA-12 = Accesory for Single UV Light Engine in hard lid ceilings: 12"x12" flange kit

H1-GA-24 = Accessory for Single UV Light Engine in drop-in celings: 24"x24" flange kit

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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)		Notes						
	Duration for each								
	to take place. Helo f	day you would like the sc ixture should only be sch the space will be unoccu	eduled	Units can be scheduled If scheduling more than					
	3. Air Handling	a Unit Mode							
	3. All Halldilli	y offic Mode		For our 20 minutes	F wit amounting that	State was well			
	Standard High Intensity (IS-minute run every 3 hours) (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	e unit(s) be operate	ed in?						
	Eastern	Central	Mountain	Pacific	Alaska	Hawaii			
Notes									
Full Name			Date						

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