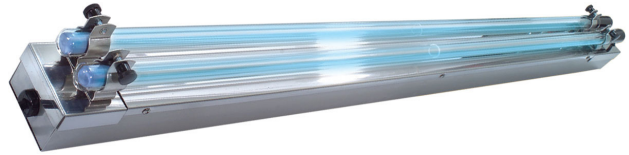


**UFHO HIGH OUTPUT UTILITY FIXTURES SPECS**

The UFHO series are well suited for mounting singularly or in grid patterns along the interior walls of supply ducts or plenums to introduce UVC to the coils and air-stream in adequate dosages. They are an ideal choice for mounting close to the coil and drain pan areas to inhibit the growth of mold and mildew in these areas. They are available in a variety of sizes (18" to 64") and High Output lamp types, both single and double lamp assemblies. Optional reflector styles can aid in directing UVC at specific areas of the coil and drain pan. Typical installations would have these units mounted on support channels, in grid patterns, spanning the face of the cooling coil and drain pan.



**Technical Data**

Models	Input Voltage	Lamp and #	Quartz Sleeve and #	UVC Watts	UVC Intensity $\mu\text{W}/\text{cm}^2$ sec @1m	Coil Coverage /Sq. Ft./	Length
UFHO18-1M-120SS UFHO18-1M-230SS UFHO18-1M-277SS	120 230 277	GML410 (1)	QSZ075 (1)	10	95	2	19"
UFHO18-2M-120SS UFHO18-2M-230SS UFHO18-2M-277SS	120 230 277	GML410 (2)	QSZ075 (2)	20	190	4	19"
UFHO26-1M-120SS UFHO26-1M-230SS UFHO26-1M-277SS	120 230 277	GML415 (1)	QSZ080 (1)	16.2	135	3	27"
UFHO26-2M-120SS UFHO26-2M-230SS UFHO26-2M-277SS	120 230 277	GML415 (2)	QSZ080 (2)	32.4	270	6	27"
UFHO36-1M-120SS UFHO36-1M-230SS UFHO36-1M-277SS	120 230 277	GML420 (1)	QSZ030 (1)	25	190	5	37"
UFHO36-2M-120SS UFHO36-2M-230SS UFHO36-2M-277SS	120 230 277	GML420 (2)	QSZ030 (2)	50	360	10	37"
UFHO48-1M-120SS UFHO48-1M-230SS UFHO48-1M-277SS	120 230 277	GML425 (1)	QSZ085 (1)	36.1	240	7	49"
UFHO48-2M-120SS UFHO48-2M-230SS UFHO48-2M-277SS	120 230 277	GML425 (2)	QSZ085 (2)	72.2	480	14	49"
UFHO64-1M-120SS UFHO64-1M-230SS UFHO64-1M-277SS	120 230 277	GML017 (1)	QSZ090 (1)	46	360	10	65"
UFHO64-2M-120SS UFHO64-2M-230SS UFHO64-2M-277SS	120 230 277	GML017 (2)	QSZ090 (2)	92	720	19	65"



**UFHO HIGH OUTPUT UTILITY FIXTURES PRICES**

High Output Utility fixtures are designed for general-purpose air and surface sterilization. 8-foot power cord is standard. The UFHO are constructed of 304 Stainless Steel. Germicidal energy at 254nm is effective for 12,000 hours. Lamps will continue to operate after 12,000 hours; however, 254nm output is not being emitted. Clean, monitor and check lamps regularly.

<b>Model *</b>	<b>Description</b>
<b>UFHO18-1M-120SS UFHO18-1M-230SS UFHO18-1M-277SS</b>	One 18" high output lamp, moisture resistant, 304 stainless steel construction. 120, 230 or 277 Volts - 50/60Hz
<b>UFHO18-2M-120SS UFHO18-2M-230SS UFHO18-2M-277SS</b>	Two 18" high output lamps, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>QSZ075</b>	Quartz sleeves for 18" moisture resistant units
<b>GML410</b>	18" replacement High Output lamp
<b>UFHO26-1M-120SS UFHO26-1M-230SS UFHO26-1M-277SS</b>	One 26" high output lamp, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>UFHO26-2M-120SS UFHO26-2M-230SS UFHO26-2M-277SS</b>	Two 26" high output lamps, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>QSZ080</b>	Quartz sleeves for 26" moisture resistant units
<b>GML415</b>	26" replacement High Output lamp
<b>UFHO36-1M-120SS UFHO36-1M-230SS UFHO36-1M-277SS</b>	One 36" high output lamp, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>UFHO36-2M-120SS UFHO36-2M-230SS UFHO36-2M-277SS</b>	Two 36" high output lamps, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>QSZ030</b>	Quartz sleeves for 36" moisture resistant units
<b>GML420</b>	36" replacement High Output lamp
<b>UFHO48-1M-120SS UFHO48-1M-230SS UFHO48-1M-277SS</b>	One 48" high output lamp, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>UFHO48-2M-120SS UFHO48-2M-230SS UFHO48-2M-277SS</b>	Two 48" high output lamps, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>QSZ085</b>	Quartz sleeves for 48" moisture resistant units
<b>GML425</b>	48" replacement High Output lamp
<b>UFHO64-1M-120SS UFHO64-1M-230SS UFHO64-1M-277SS</b>	One 64" high output lamp, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>UFHO64-2M-120SS UFHO64-2M-230SS UFHO64-2M-277SS</b>	Two 64" high output lamps, moisture resistant, 304 stainless steel construction. 120, 230 or 277Volts - 50/60Hz
<b>QSZ090</b>	Quartz sleeves for 64" moisture resistant units
<b>GML017</b>	64" replacement High Output lamp

\* UFHO fixtures are voltage-specific, but can operate at 50 or 60Hz at their specified voltage. Please, specify voltage when ordering.

With questions about the UFHO contact American Air & Water, Inc. at 888-378-4892 or [info@americanairandwater.com](mailto:info@americanairandwater.com)

## UFHO INSTALLATION INSTRUCTIONS

1. The High Output Utility Fixtures should be mounted on suitable support angle or channel and positioned across coil face as shown on the drawing.
  - a. If support channels are provided by American Air & Water, Inc., fixtures will be pre-assembled and pre-wired to support channels at factory.
  - b. If others furnish support members, mount utility fixtures to supports as shown on the drawing.
  - c. Parallel wire each row of fixtures together, using liquid tight conduit between fixtures.
2. Install mounted fixture assemblies into duct section as follows:
  - a. Position fixture and rail assemblies as shown on the supplied arrangement drawing.
  - b. For American Air & Water, Inc. supplied rails, drill 3/8" diameter holes into duct wall in the positions shown on the arrangement drawing.
  - c. Use 5/16" hardware for securing mounting rails to duct or plenum wall.
3. Supply power to each row of fixtures as required - Supply power can be parallel wired through a DPDT safety switch mounted to maintenance access panels for safety reasons.
4. Optional UVC Sensor can be mounted by drilling a 9/16" diameter hole in the duct wall. A connecting cable can be provided in any specified length to run from the sensor(s) to the panel mount monitor. The panel mount monitor can be mounted in existing enclosure or can be provided with an enclosure as an option.

### UFHO Surface and Air Sterilizers Installation Specifications

UFHO are designed for HVAC cooling coil irradiation to mount across the face of the coil singularly or in grid patterns to irradiate the entire surface of the coil. Typical installations require (1) UFHO-36-2 fixture per 10 square feet of coil surface, mounted approximately 18" from the coil surface. Each fixture, mounted at 18", will provide 1,440 microwatts/cm<sup>2</sup> per sec intensity. Fixtures are to be mounted on support frames, which span the plenum or duct section.

On existing systems, UFHO-M fixtures should be mounted downstream of the cooling coil facing the coil. M models are moisture proof, incorporating quartz sleeves over the lamps with rubber boots over the ends to protect the lamp connections.

In a typical installation, a UFHO-36-2 fixture will supply enough UVC energy to effectively irradiate 5,000 CFM of air flow for a 90% first pass kill factor. This flow rate is based upon 500 FPM velocity at a temperature of 60 degrees F.

### Visualization Drawing

