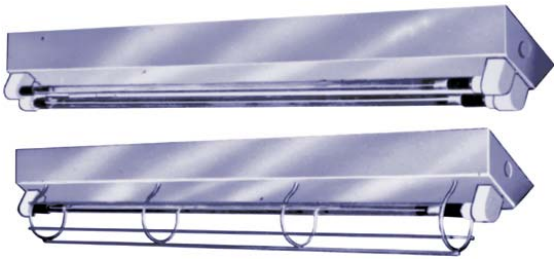


SM SURFACE-MOUNT DIRECT SURFACE UV STERILIZERS SPECS



The dust-free design of the SM fixtures ensures a lifetime of dependability and contemporary appearance. The SM fixtures utilize specular aluminum reflectors for maximum UV efficiency. SM fixtures are available in one or two lamp models in various lengths.

Optional aluminum guardrails protect the UV lamp from breakage in congested areas. The guardrail fixtures have an overall height of 4⁵/₈" and same length and width. The lamps may be replaced without disassembly of guardrail. The guardrails also could be made of stainless steel.

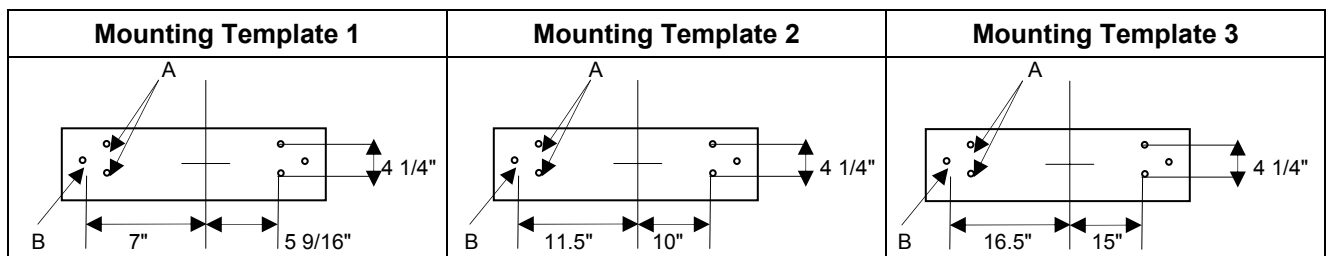
The SM Fixtures are designed for hospitals, laboratories and clean room applications. Regular cleaning and relamping is required for maximum germicidal effectiveness.

Technical Data

Single lamp Models	Lamp #	UV Watts	Mounting Template	Dimensions Length x Width x Height	Lamp Life
SM-30-C	GML010	8.3	3	37" x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-20-C	GML025	5.5	2	27" x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-10-C	GML020	2.8	1	18 ¹ / ₈ " x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-36 *	GML005	13.8	3	37" x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-10-SL	GML060	5.3	1	18 ¹ / ₈ " x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-30-H	GML220	8.3	3	37" x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-25-H	GML215	5.0	1	18 ¹ / ₈ " x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-15-H	GML210	3.6	1	18 ¹ / ₈ " x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours

Double lamp Models	Lamp #	UV Watts	Mounting Template	Dimensions Length x Width x Height	Lamp Life
SM-30-2C	GML010 (2)	16	3	37" x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-20-2C	GML025 (2)	11	2	27" x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-10-2C	GML020 (2)	5.6	1	18 ¹ / ₈ " x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-36-2 *	GML005 (2)	27.6	3	37" x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-30-2H	GML220 (2)	16.6	3	37" x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-25-2H	GML215 (2)	10	1	18 ¹ / ₈ " x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours
SM-15-2H	GML210 (2)	7.2	1	18 ¹ / ₈ " x 5 ³ / ₈ " x 4 ¹ / ₈ "	10,000 hours

* SM-36 and SM-36-2 have electronic ballast which can automatically handle 110/220/277V / 50/60Hz. For all other models, please specify required voltage. All ballasts are UL Listed.



A – 1/4" Mounting Holes
B – 7/8" Knock-outs for box mounting

Caution: Care should be taken to ensure that personnel are not exposed to direct or reflected UV light. Suitable eye and skin protection should be employed when lamp is in operation. Before cleaning or relamping, always turn the power OFF.



SM SURFACE-MOUNT DIRECT SURFACE UV STERILIZERS PRICES

Surface-mount fixtures with dust free design feature all aluminum construction and specular reflector cover with or without guardrails for applications to deliver 254nm germicidal ultraviolet radiation.

Length	Model	Description
37"	Deluxe surface mount fixture (37" L x 5-5/8" W x 4-1/8" D)	
	SM-30-C	Single cold cathode (GML010) lamp
	SM-30-2C	Double cold cathode (GML010) lamps
	SM-36	Single slimline (GML005) lamp
	SM-36-200	One slimline (GML005), 200 MA - OR35 LS light shield
	SM-36-2	Double slimline (GML005) lamps
	SM-30-H	Single hot cathode (GML220) lamp
	SM-30-2H	Double hot cathode (GML220) lamps
	Deluxe surface mount fixture with Guard Rails (37" L x 5-5/8" W x 4-5/8" D)	
	SM-30-CGR	Single cold cathode (GML010) lamp
	SM-30-2CGR	Double cold cathode (GML010) lamps
	SM-36GR	Single slimline (GML005) lamp
	SM-36-2GR	Double slimline (GML005) lamps
	SM-30-HGR	Single hot cathode (GML220) lamp
SM-30-2HGR	Double hot cathode (GML220) lamps	
27"	Deluxe surface mount fixture (27" L x 5-5/8" W x 4-1/8" D)	
	SM-20-C	Single cold cathode (GML025) lamp
	SM-20-2C	Double cold cathode (GML025) lamps
	Deluxe surface mount fixture with Guard Rails (27" L x 5-5/8" W x 4-5/8" D)	
	SM-20-CGR	Single cold cathode (GML025) lamp
	SM-20-2CGR	Double cold cathode (GML025) lamps
18"	Deluxe surface mount fixture (18-1/8" L x 5-5/8" W x 4-1/8" D)	
	SM-10-C	Single cold cathode (GML020) lamp
	SM-10-2C	Double cold cathode (GML020) lamps
	SM-10-SL	Single slimline (GML060) lamp
	SM-10-2SL	Double slimline (GML060) lamps
	SM-25-H	Single hot cathode (GM215) lamp
	SM-25-2H	Double hot cathode (GML215) lamps
	SM-15-H	Single hot cathode (GM210) lamp
	SM-15-2H	Double hot cathode (GML210) lamps
	Deluxe surface mount fixture with Guard Rails (18-1/8" L x 5-5/8" W x 4-5/8" D)	
	SM-10-CGR	Single cold cathode (GML020) lamp
	SM-10-2CGR	Double cold cathode (GML020) lamps
	SM-10-SLGR	Single slimline (GML060) lamp
	SM-10-2SLGR	Double slimline (GML060) lamps
	SM-25-HGR	Single hot cathode (GM215) lamp
	SM-25-2HGR	Double hot cathode (GML215) lamps
	SM-15-HGR	Single hot cathode (GM210) lamp
	SM-15-2HGR	Double hot cathode (GML210) lamps



SM INSTALLATION INSTRUCTIONS

Fixture	Ceiling Heights			
	7 feet	8 feet	9 feet	10 feet
Single Lamp	Square feet of floor area per fixture			
SM-30-C	46	30	25	20
SM-20-C	31	20	17	14
SM-10-C	17	11	8	7
SM-36	75	49	42	33
SM-10-SL	34	22	18	15
SM-30-H	53	35	29	24
SM-25-H	34	22	18	15
SM-15-H	24	16	13	11
Double Lamp	Square feet of floor area per fixture			
SM-30-2C	69	45	38	31
SM-20-2C	46	30	25	20
SM-10-2C	25	17	14	12
SM-36-2	112	74	62	50
SM-30-2H	79	52	44	35
SM-25-2H	51	34	29	23
SM-15-2H	36	24	20	16

If ceiling is over 10 feet, fixtures should be suspended from ceiling to 10 feet level above the floor.

Example:

Inactivation of *Aspergillus Niger* (Black Mold Spores) requires 330,000 microwatts per square centimeter.

In a typical 15' x 10' room with 7' ceiling, two (2) SM-36 fixtures would require 3 hours irradiation time to inactivate all black mold spores at floor level.

Calculation:

Microwatts/sec. 253.7nm GML005 (420MA) @ 1 meter = 120
 x 80" factor: .256 = 30.72
 x 60 seconds = 1,843.2
 x 60 minutes = 110,592.
 x 3 hours = 331,776.

With 4 fixtures - 150 minutes
 With 6 fixtures - 100 minutes
 With 8 fixtures - 80 minutes

Higher ceilings require the following multiplier to number of fixtures:

8 feet - x 1.5
 9 feet - x 2.0
 10 feet - x 3.0