

Medical Operating Room Troffers

1x4, 2x2 and 2x4 Surface & Recessed Fluorescent Luminaires with RF Filtering

- For use in Operating and Exam Rooms
- IP65 Rating
- RF Filtered Circuits Standard
- Asymmetric Distribution Lens Standard
- Antimicrobial finish standard



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ORDERING GUIDE

Series	Installation	Material	Size	Lamps	Voltage	Circuits	Mounting	Options
ML								
ML	OF: Flange	3: White 430 SS Hsg. & White AM 430 SS Door	1x4: 1' x 4' Housing	1,2, or 3/T8: F32T8	120V	1/CIR	IND	FC: Fuse & Holder (One Supplied Per Circuit)
	OG: Grid	4: White Alum Hsg. & White AM 430 SS Door	2x2: 2' x 2' Housing	1,2, or 3/T5: F28T5	277V	2/CIR	Individual	EBL: -20F Electronic Ballast
	OS: Surface	5: White Alum Hsg. & White ALlum Door		1,2, or 3/T5HO: F54FTHO	UNV	3/CIR	CRM	EBPRS: Program Rapid Start Ballast
		7: White Alum Hsg. & White AM CRS Door		2,3,4 or 6/T8: F17T8	347V*	Continuous Row Mount	1/EM: 1 Lamp EM (See Chart For Lamp Compatibility)	
				2,3,4 or 6/T5: F14T5			2/EM: 2 Lamp EM (See Chart For Lamp Compatibility)	
				2,3,4 or 6/T5HO: F24T5HO			SSP: Satin Polished Stainless Steel Doorframe	
				1 or 2/T8U6: T8 6" U-Lamp			SYM: Symmetric Acrylic Lens with RF Shield	
				1 or 2/T8U1: T8 1.6" U-Lamp			GG: NSF Approved Seal-Pro Gasket	
				2,3, or 4/BX: PL-L, BX 40W			SW: Wet Locatoin Hub Supplied (not installed)	
			2x4: 2' x 4' Housing	2,3,4 or 6/T8: F32T8			10KV: 10KV Parallel Surge Protection (One Supplied Per Circuit)	
				2,3,4 or 6/T5: F28T5			GTD: Generator Transfer Device	
				2,3,4 or 6/T5HO: F54FTHO			WHIP: Must Specify Length and Wire Qty	
							GL2: (2) Medical Grade Green Filtered Lamps (must specify additional circuit for green lamps. Total lamp qty is unchanged.)	
							SYM: Symmetric Acrylic Lens with RF Shield	

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SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened, silicone sealed knockouts for a superior seal. Housings are available in .040" 3003 Aluminum or 20Ga 430 Stainless Steel. End to End Row Mounting for Flange Fixtures with CRM selection only.

DOOR FRAME: One-Piece Inset door frame regresses into the housing to allow the gasket to seal to the housing. Door frame is hinged by aircraft cables and secures to housing with captive stainless steel pan head screws. Available in .040" 3003 Aluminum, 20Ga 430 Stainless Steel, or 20Ga 1008 CRS.

GASKETS: Closed microcellular Nitrile gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system.

LENS: Provided with Asymmetric Distribution RF shielded acrylic lens. SYM option provides RF Shielded Symmetric Acrylic Lens.

LAMPS: Suitable for most T8, T5, and T5HO lamps. (By others). Optional green lamps replace up to (2) white lamps

ELECTRICAL: Standard Class P ballast - Electronic <10% THD, high performance instant start universal voltage (120-277). See options for rapid start or dimming ballasts. Multiple internal circuits are available for scene settings, each specified circuit is provided with an RFI filter that is tested to meet MIL-STD-461. Fixtures available with integral 90min Emergency backups and surge protection. Consult factory for additional options not listed.

REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALLATION: Fixtures are supplied with (4) .875" flattened and silicone sealed knockouts for wiring. Recessed housings are supplied with (4) swing out toggle arms and are available for row mounting end to end. Housings fit most 1.0" and 1.5" Tbar grid ceilings, must verify with details below. Surface housings have (4) .312" holes on the back of the enclosure for mounting (hardware by others)

CRM: Continuous Row Mounting (CRM) option provides a means of securing luminaires to each other end to end in straight rows only. While all recessed luminaires are suitable for thru wiring, the CRM option is only available for Hard lid installation. CRM fixtures come with flanges on 2 of the 4 sides so that the luminaires can mount to each other without the appearance of a larger gap between the two fixtures. Endcaps are factory installed based upon customer provided row configuration information and the Ceiling cutouts can be determined as shown on the CRM installation instructions that can be found on our website.

DOOR FINISH: White Dupont Alesta using Agion silver ion antimicrobial powder coat finish standard. see options for polished stainless steel.

LISTINGS: Military Standard 461F compliant for conducted and radiated emissions. IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosesdowns. UL listed per UL_1598 for wet locations. Chicago Plenum Rated. Certified ISO-14644-1 for class 5 through class 9 cleanspaces. Certified Fed Std 209E for Class 100 through Class 100,000 cleanspaces.

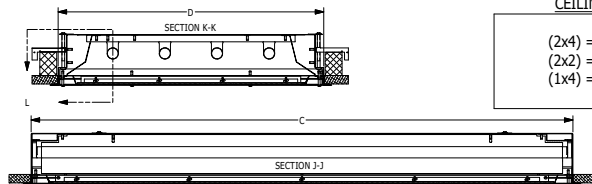
PRODUCT DRAWINGS

FLANGE HOUSING DETAILS

FLANGE REFERENCE DIMENSIONS						
SIZE	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F
1X4	49.50"	13.00"	48.08"	11.58"	4.5"	-
2X2	25.50"	25.00"	24.08"	23.58"	4.5"	-
2X4	49.50"	25.00"	48.08"	23.58"	4.5"	-

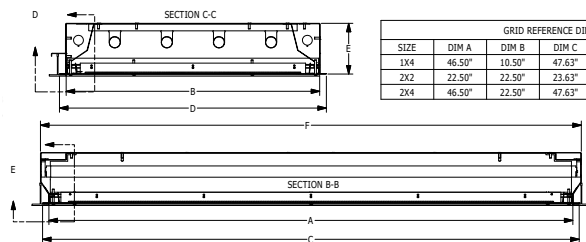
CEILING CUTOUTS

(2x4) = 24" x 48.5"
 (2x2) = 24" x 24.5"
 (1x4) = 12" x 48.5"



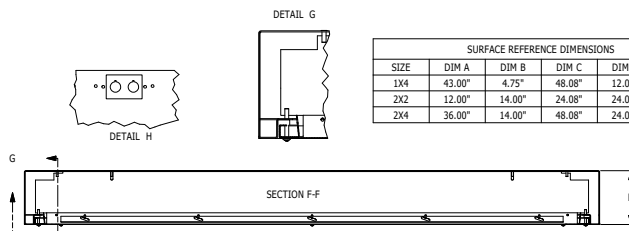
GRID HOUSING DETAILS

GRID REFERENCE DIMENSIONS						
SIZE	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F
1X4	46.50"	10.50"	47.63"	11.69"	4.50"	48.00"
2X2	22.50"	22.50"	23.63"	23.63"	4.50"	24.00"
2X4	46.50"	22.50"	47.63"	23.69"	4.50"	48.00"



SURFACE HOUSING DETAILS

SURFACE REFERENCE DIMENSIONS					
SIZE	DIM A	DIM B	DIM C	DIM D	DIM E
1X4	43.00"	4.75"	48.08"	12.00"	4.50"
2X2	12.00"	14.00"	24.08"	24.00"	4.50"
2X4	36.00"	14.00"	48.08"	24.00"	4.50"



01-BA-F-STD INSET DWG. DATE: 4/11/2

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ENERGY DATA

MEDICAL ONE PIECE INSET-FGS-FLUOR TROFFER						
ENCLOSURE SIZE	LAMP TYPE	LAMP QTY ¹	RAPID START EBPRS	(2/EM) 2 LAMP EMERGENCY ²	(1/EM) 1 LAMP EMERGENCY ²	MAX AMBIENT TEMP ³
1X4	F32WT8	1,2, OR 3	OPTIONAL	1460 Lm	700 Lm	40°C (104°F)
1X4	F28WT5	1,2, OR 3	STANDARD	NA	1050 Lm	40°C (104°F)
1X4	F54WT5HO	1,2, OR 3	STANDARD	NA	1150 Lm	40°C (104°F)
2X2	F17WT8	2,3,4, OR 6	OPTIONAL	792 Lm	511 Lm	40°C (104°F)
2X2	F14WT5	2,3,4, OR 6	STANDARD	NA	850 Lm	40°C (104°F)
2X2	F24WT5HO	2,3,4, OR 6	STANDARD	NA	925 Lm	40°C (104°F)
2X2	F32WT8U1.6	2 OR 3	OPTIONAL	1460 Lm	700 Lm	40°C (104°F)
2X2	F32WT8U6	1 OR 2	OPTIONAL	1460 Lm	700 Lm	40°C (104°F)
2X4	F32WT8	2,3,4, OR 6	OPTIONAL	1460 Lm	700 Lm	40°C (104°F)
2X4	F28WT5	2,3,4, OR 6	STANDARD	NA	1050 Lm	40°C (104°F)
2X4	F54WT5HO	2,3,4, OR 6	STANDARD	NA	1150 Lm	40°C (104°F)

¹ LAMPS SUPPLIED BY OTHERS

² TOTAL GENERATED LUMENS (FROM STD EM BALLAST SPECIFICATION SHEET) HIGHER LUMEN OPTIONS MAY BE AVAILABLE

³ TEMP RATING MAY VARY WITH ALTERNATE SPECIFIED BALLASTS OR ANY NON STANDARD SELECTION