

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**
- **B.A.A. & B.A.B.A Compliant & Made in the USA
by a Family Owned US Corporation**



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ORDERING GUIDE

Series	Installation Type	Material	Size	Lamps	Voltage	Circuits	Mounting	Options
ML								

Series	Installation Type	Material	Size	Lamps	Voltage	Circuits	Mounting	Options
ML	OR: Recessed (suitable for flange and grid)	3: White 430 SS Hsg. & Polished 304 SS Door	1x4: 1' x 4' Housing	2/T5: F28T5	120V 277V UNV 347V*	1/CIR 2/CIR 3/CIR	IND Individual	FC: Fuse & Holder (One Supplied Per Circuit) EBL: -20F Electronic Ballast 1/EM: 1 Lamp EM (See Chart For Lamp Compatibility) SSP: Satin Polished Stainless Steel Doorframe SYM: Symmetric Acrylic Lens with RF Shield GG: NSF Approved Seal-Pro Gasket SW: Wet Location Hub Supplied (not installed) 10KV: 10KV Parallel Surge Protection (One Supplied Per Circuit) GTD: Generator Transfer Device WHIP: Must Specify Length and Wire Qty
		4: White AL Hsg. & Polished 304 SS Door		2/T5HO: F54FTHO				
		5: White AL Hsg. & White AL Door	2x2: 2' x 2' Housing OR 2x4: 2' x 4' Housing	2,3,4 or 6/T5: F14T5			CRM Continuous Row Mount	
		7: White Alum Hsg. & White AM CRS Door		2,3,4 or 6/T5HO: F24T5HO				
	OS: Surface	3: Polished 304 SS Hsg. & Polished 304 SS Door	1x4: 1' x 4' Housing	1,2, or 3/T5: F28T5		CRM available for flange fixtures only.		
		4: White AL Hsg. & Polished 304 SS Door		1,2, or 3/T5HO: F54FTHO				
		5: White AL Hsg. & White AL Door	2x2: 2' x 2' Housing OR 2x4: 2' x 4' Housing	2,3,4 or 6/T5: F14T5				
		7: White Alum Hsg. & White AM CRS Door		2,3,4 or 6/T5HO: F24T5HO				

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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: Standard Lens is a 3 piece assembly consisting of a clear flat acrylic lens on the room side followed by a linear asymmetric lens and finished with a frost overlay on top. The clear flat room side lens is used to allow an easy to clean surface. The frosted diffusing top layer provides a more evenly illuminated surface. Center lens is an Asymmetric distribution pattern optimized for high visibility within the surgical field. Symmetric lens with inverted pattern available in options.

LAMPS: Suitable for most T5 and T5HO lamps. (By others).

ELECTRICAL: Standard Class P ballast - Electronic <10% THD, high performance rapid start universal voltage (120-277). See options for 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%.

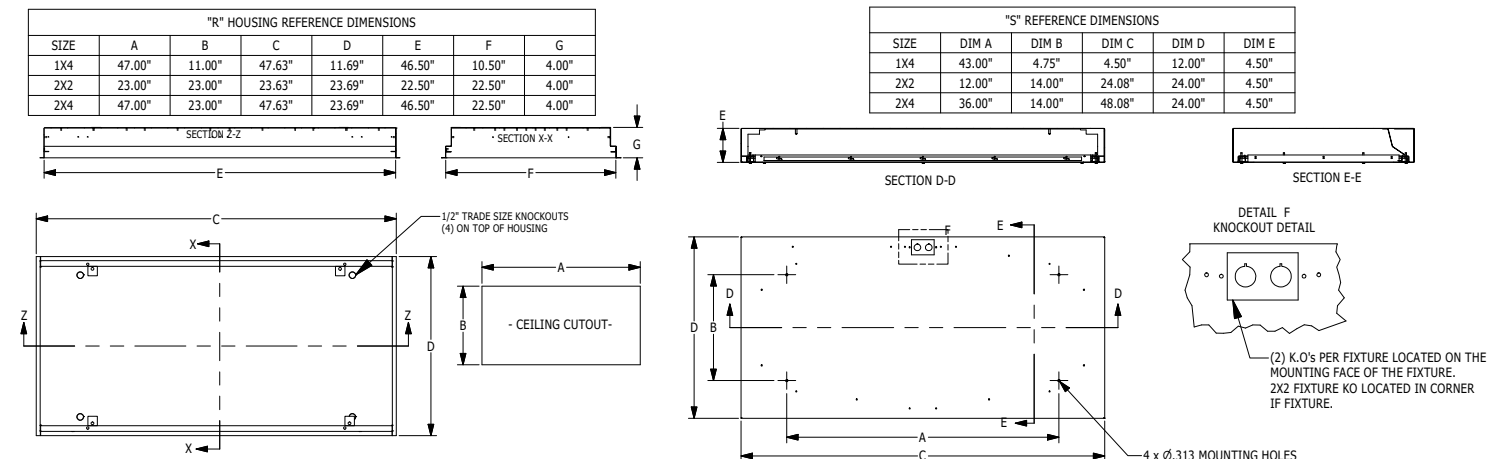
INSTALLATION: Fixtures are supplied with .875" flattened knockouts for supply entry. Recessed housings have (4) swing out toggle arms that are used to draw the fixture in to the ceiling for hard lid installation without the need for a yoke hanger. The toggle arm adjuster bolts are accessible from the room side of the luminaire and the actual toggles can be used as means of establishing a seismic support for lay in ceiling installations.

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 461G compliant for conducted and radiated emissions. IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hoses. UL listed per UL_1598 for wet locations. Chicago Plenum Rated. Certified ISO-14644-1 for class 5 through class 9 cleanspaces. NSF2 listed for non-food & splash zones. Certified Fed Std 209E for Class 100 through Class 100,000 cleanspaces. This product Series is both Build America Buy America (B.A.B.A.) & Buy American Act (B.A.A.) compliant.

PRODUCT DRAWINGS



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ENERGY DATA

MEDICAL ONE PIECE INSET-FGS-FLUOR TROFFER				
ENCLOSURE SIZE	LAMP TYPE	LAMP QTY ¹	(1/EM) 1 LAMP EMERGENCY ²	MAX AMBIENT TEMP ³
1X4	F28WT5	1,2, OR 3	1050 Lm	40°C (104°F)
1X4	F54WT5HO	1,2, OR 3	1150 Lm	40°C (104°F)
2X2	F14WT5	2,3,4, OR 6	850 Lm	40°C (104°F)
2X2	F24WT5HO	2,3,4, OR 6	925 Lm	40°C (104°F)
2X4	F28WT5	2,3,4, OR 6	1050 Lm	40°C (104°F)
2X4	F54WT5HO	2,3,4, OR 6	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