

Medical Exam Room Troffers

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

- **For use in Patient and Exam Rooms**
- **IP55 Rating**
- **RF Filtered Circuits Standard**
- **Symmetric Distribution with RF Shielded Lens Standard**
- **Antimicrobial Finish Standard**



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ORDERING GUIDE

| Series | Installation | Material | Size | Lamps | Voltage | Circuits | Mounting | Options |
|-----------|--|---|---|---|--|--|--|--|
| ML | | | | | | | | |
| ML | EF: Flange EG: Grid ES: Surface | 3: White 430 SS Hsg. & White AM 430 SS Door 4: White Alum Hsg. & White AM 430 SS Door 5: White Alum Hsg. & White Alum Door | 1x4: 1' x 4' Housing 2x2: 2' x 2' Housing 2x4: 2' x 4' Housing | 1,2, or 3/T8: F32T8 1,2, or 3/T5: F28T5 1,2, or 3/T5HO: F54FTHO 2,3,4 or 6/T8: F17T8 2,3,4 or 6/T5: F14T5 2,3,4 or 6/T5HO: F24T5HO 1 or 2/T8U6: T8 6" U-Lamp 1 or 2/T8U1: T8 1.6" U-Lamp 2,3, or 4/BX: PL-L, BX 40W 2,3,4 or 6/T8: F32T8 2,3,4 or 6/T5: F28T5 2,3,4 or 6/T5HO: F54FTHO | 120V 277V UNV 347V* | 1/CIR 2/CIR 3/CIR | IND Individual CRM Continuous Row Mount <i>CRM available for flange fixtures only.</i> | FC: Fuse & Holder (One Supplied Per Circuit) EBL: -20F Electronic Ballast EBPRS: Program Rapid Start Ballast 1/EM: 1 Lamp EM (See Chart For Lamp Compatibility) 2/EM: 2 Lamp EM (See Chart For Lamp Compatibility) SSP: Satin Polished Stainless Steel Doorframe ASY: Asymmetric Distribution Lens with RF Shielding GG: NSF Approved Seal-Pro Gasket SW: Wet Locatoin Hub Supplied (not installed) 10KV: 10KV Parallel Surge Protection (One Supplied Per Circuit) GTD: Generator Transfer Device 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.) |

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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: Inset door frame made from welded channels regresses into the housing to allow the neoprene 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 or 20Ga 430 Stainless steel.

GASKETS: Closed cell 100% pure neoprene gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system.

LENS: Standard lens provided is an RF Shielded .125" thick Symmetric P12 Acrylic Lens. ASY option provides RF shielded Asymmetric distribution 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. IP55 rated for dust and water ingress. 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. Electrical components covered under manufacturers warranty, the remaining fixture is covered by a 10 year warranty.

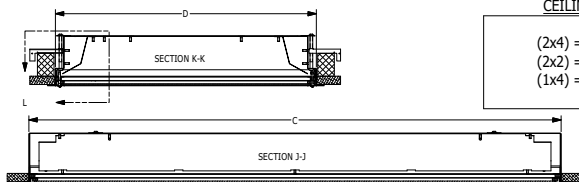
PRODUCT DRAWINGS

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" | - |

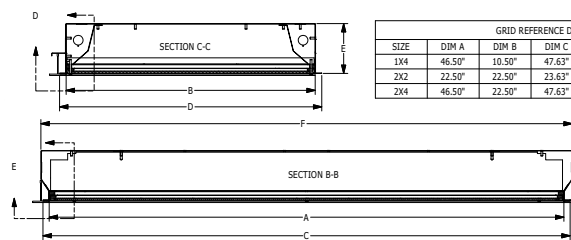
CEILING CUTOUTS

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

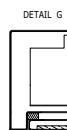
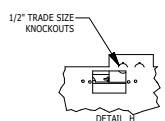


GRID HOUSING DETAILS

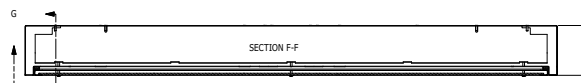
| GRID REFERENCE DIMENSIONS | | | | | | |
|---------------------------|--------|--------|--------|--------|-------|--------|
| SIZE | DIM A | DIM B | DIM C | DIM D | DIM E | DIM F |
| 1X4 | 46.50" | 10.50" | 47.63" | 11.69" | 4.50" | 48.00" |
| 2X2 | 22.50" | 22.50" | 23.63" | 23.63" | 4.50" | 24.00" |
| 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-AA-F-STD CHANNEL DWG. DATE: 5/08

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ENERGY DATA

| MEDICAL CHANNEL-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