Fail-Safe

DESCRIPTION

The Fail-Safe CFDFA Cleanroom Troffer is enclosed and gasketed to maintain ceiling integrity and protect against infiltration of particles and airborne bacteria. The housing and door are designed to work with inverted1" or 1-1/2" T-Grid ceilings (specify 15T option for 2x4).

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Application
The CFDFA is suitable for use in I.E.S. Class 1,000, 10,000 and 100,000 clean room environments. Applications include cleanrooms, technical and biomedical labs, food processing/testing centers, kitchens and pharmaceutical labs.

Housing
Recessed housing consists of one-piece, code gauge, prime cold rolled steel. End plates are securely attached for sealed construction.

Finish
High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%. Matte white anti-microbial paint also available.

Door Frame
Die formed, heavy gauge, flat extruded aluminum door with reinforced corners and baked white enamel finish.

Hinging/ Latching
Two slide-latches with safety screws secure lens frame in the closed position. Lens frame hinges and is removable without the use of tools.

Gasket
One piece continuous gasket surrounds perimeter of lens to seal lens to door frame. Additional gasketing seals door to housing.

Ballast
Electronic Class P, CBM/ETL ballast.

Labels
UL/cUL listed for wet locations under covered ceilings.

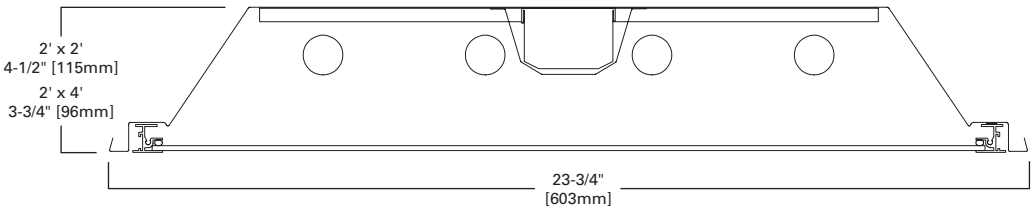


CFDFA

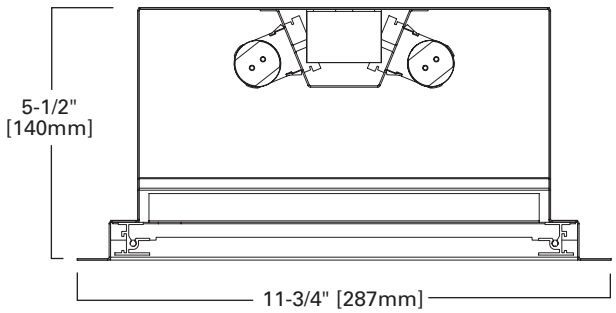
1' x 4'
2' x 2'
2' x 4'
Cleanroom

RECESSED GRID
Inset Flat Door
NEMA Type "G" Grid

2' x 2' / 2' x 4'



1' x 4'



RATINGS

UL/cUL listed
Wet location
Class 1,000
ISO 6-8
Anti-microbial (Optional)

ORDERING INFORMATION

SAMPLE NUMBER: CFDFA-432A125-277-EL4-EB81-U

Product Family	Door Frame	No. of Lamps	Wattage (Length)	Lens [4]	Voltage	Ballast	Options	Packaging	Accessories (Order Separately)
CFDFA									

Series
CFDFA=Fluorescent, Grid, Flat Aluminum Door

Door Frame
[Blank]= 24" Wide
12= 12" Wide

2, 3, or 4 Lamps (2' x 2')
2, 3, 4, or 6 Lamps (2' x 4')
1, 2, or 3 Lamps (1' x 4') [2]

1' x 4' / 2' x 4'
32=32WT8
28T5=28WT5
54T5=54WT5HO

2' x 2'
17=17WT8
14T5=14WT5
24T5=24WT5HO

A125= #12 Pattern Acrylic (0.125" Nominal thickness)
A19/156= #19 Pattern Acrylic (0.156" Nominal thickness)
POLY12/125= #12 Pattern Polycarbonate (0.125" Nominal thickness)
93=Prismatic Tempered Glass, 0.156" Thick
89BJ=0.187" Pattern 12 Polycarbonate
89BM=0.140" Pattern 12 Acrylic
89AR=0.140" Pattern 12 Acrylic Acrytuf®
89AN=0.187" Pattern 12 Acrylic Acrytuf®
89CB=0.187" Pattern 19 Acrylic
89BV=0.125" Clear Acrylic
89BW=0.125" Opal Acrylic, Smooth
89AV=0.125" Pattern 12, Acrylic with RFI grid
89AG=0.156" Pattern 19, Acrylic

120= 120V
277= 277V
347= 347V
UNV=120V-277V

EB81=(1) Ballast for use with T8 Lamp, Instant Start
EB82=(2) Ballasts for use with T8 Lamp, Instant Start
EB51=(1) Ballast for use with T5 Lamp
EB52=(2) Ballasts for use with T5 Lamp
ER81=(1) Ballast for use with T8 Lamp, Rapid Start
ER82=(2) Ballasts for use with T8 Lamp, Rapid Start

EL4= Emergency Battery Pack, 1 T8 lamp
EL5= Emergency Battery Pack, 1 T5 or T5HO lamp
GL= Internal Single Element Fusing
GM= Internal Double Element Fusing
RIF1= Radio Interference Suppressor
15T= Compatible [1] with 1 1/2" T-Grid Ceilings (2' x 4' only)
G3= Gasket applied to housing lip to seal against grid
AM=Antimicrobial Finish
MSC4=Mounting Safety Clips (4) and Hardware

U=Unit Pack (2' x 4' only)

MSC4-PK=Mounting Safety Clips (4) with hardware. Attach to ends of grid fixture with self tapping screws (included) to either secure fixture to grid or to attach tie-wiring to clips.
DFCL-2448W-U=Fail-Safe 2' x 4' Drywall Framing Kit, White with Gasketing [3]
DFCL-1248W-U=Fail-Safe 1' x 4' Drywall Flange Kit, White with Gasketing [3]
DFCL-2424W-U=Fail-Safe 2' x 2' Drywall Framing Kit, White with Gasketing [3]

Replace "W" with "AMW" for anti-microbial finish
(DFCL-2448W-U to DFCL-2448AMW-U)

DFCL Cut-out Dimensions
2x4: 24.25" x 48.25"
1x4: 12.25" x 48.25"
2x2: 24.25" x 24.25"

Notes:

1 2' x 2', 1' x 4' compatible with 1-1/2" T-grid system. Specify the 15T option for 1-1/2" T-grid compatibility when specifying the 2' x 4'.
2 1' x 4' unit available 254T5HO maximum. (3) T8 or (3) T5 standard.
3 Assembled in the field. (4) corner brackets, (2) side extensions, (2) end extrusions. Gasketing to be applied to outer edge, for tight seal against ceiling.
4 Prismatic lens are installed with the prisms facing inside luminaire, smooth side of lens facing room side.