FFDL	• AC Motor	• Low Energy	• Backward Inclined Fan	
FFDLRA	• AC Motor	• Low Energy	• Room Side Replaceable Filter & Motor	• Backward Inclined Fan

FFDL

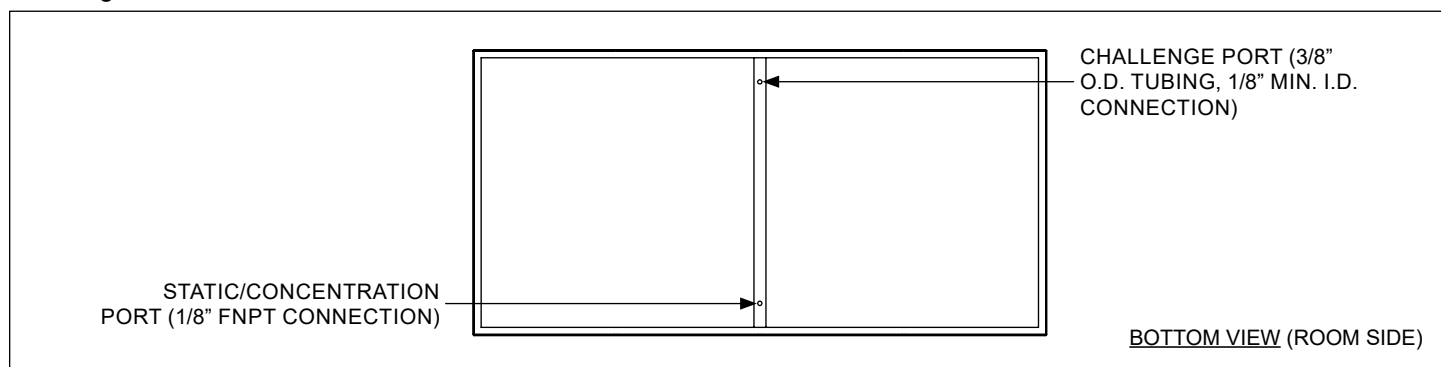Note: Items in **bold** designate standard offering

DIM "B" + 0.19 [4.85mm]

DIM "A" + 0.19 [4.85mm]

1.25 [32mm] TYP.

1.25 [32mm] TYP.

1/4-20 UNC THREADED INSERT (4 EA) EACH INSERT HAS PULL OUT RATING OF 1180 LBS.

20X20 30% (20PPI) POLYURETHANE FOAM, WASHABLE SNAP-IN PREFILTER

Ø7/8 KNOCKOUT FOR INCOMING POWER

CONTROL

ON/OFF SWITCH

9.47 [240mm]

"B"

12.56 [319mm]

"A"

WALKABLE LID (250 LBS. MAX.)

0.68 [17mm] TYP. FILTER FLANGE

BOTTOM VIEW (ROOM SIDE)
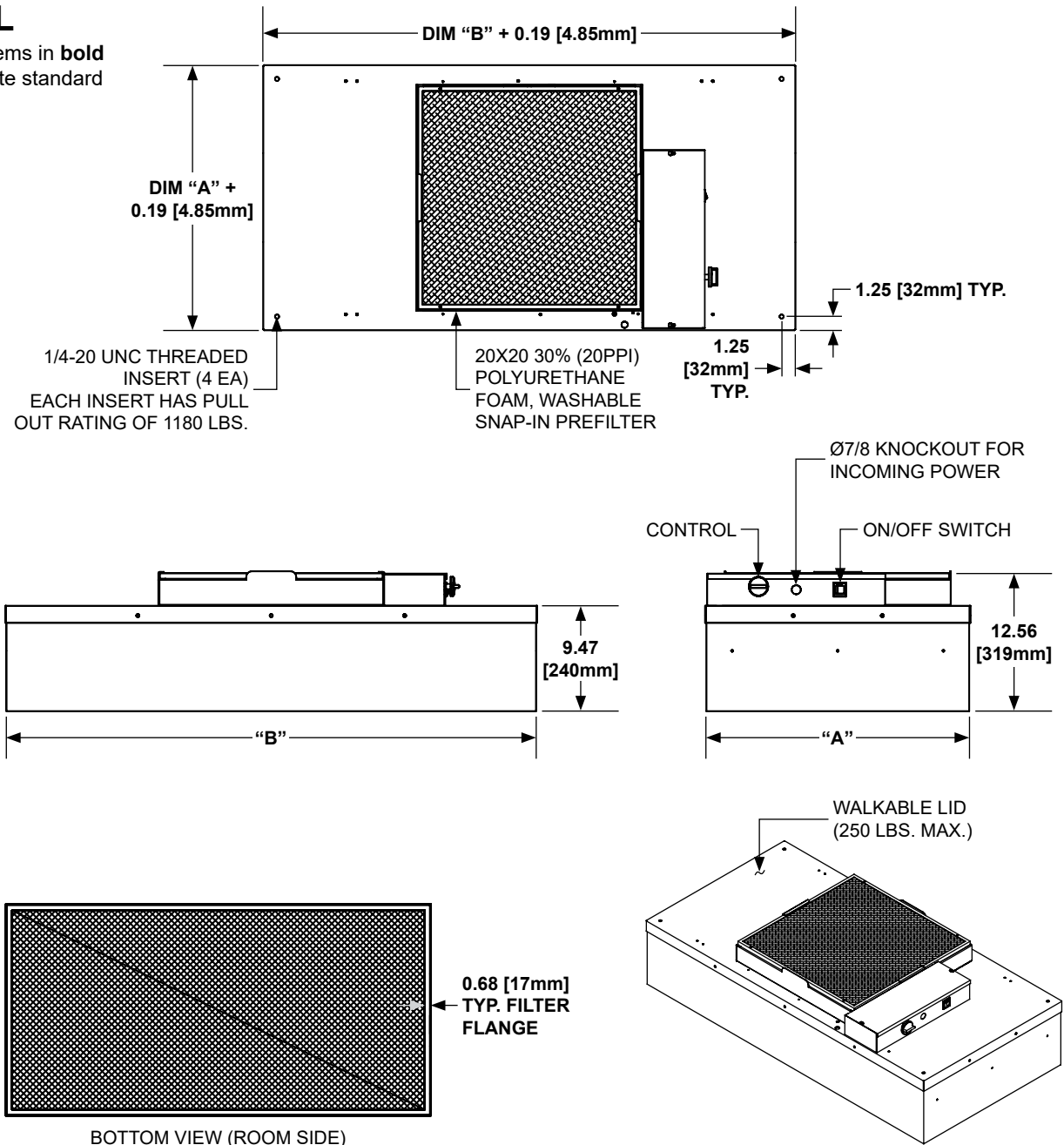
Filter Size (OD)		Nominal Filter Size
DIM "A" in (mm)	DIM "B" in (mm)	
23.63 (600)	**47.63 (1210)**	**2 X 4**
23.63 (600)	35.63 (905)	2 X 3
23.63 (600)	23.63 (600)	2 X 2
		**Other

** Contact Titus to Ensure Size Availability.

HEPA filter, Pre-filter & Lid assembly

ON/OFF SWITCH

LID ASSEMBLY

ELECTRICAL KNOCK OUT

#8 SCREWS (10X)

FILTER DEFLECTOR

Ø5/32 RIVET (6X)

HEPA/ULPA FILTER

Challenge/Concentration Port Detail

CHALLENGE PORT (3/8"
O.D. TUBING, 1/8" MIN. I.D.
CONNECTION)

STATIC/CONCENTRATION
PORT (1/8" FNPT CONNECTION)

BOTTOM VIEW (ROOM SIDE)
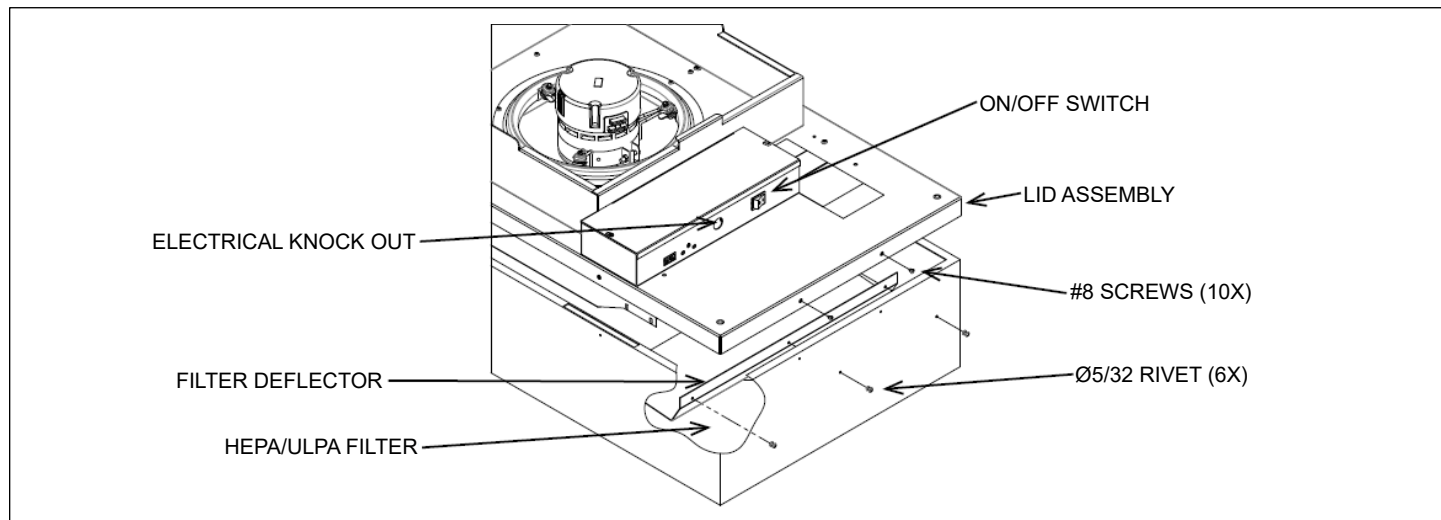
Basic Unit Configuration

Check ☑ if provided.

Motor
Three Speed AC Motor with Backward Inclined Wheel

☐ **120V, 60 Hz, 1 PHASE, 1.80 FLA**

☐ 277V, 60 Hz, 1 PHASE, 0.80 FLA

Filter

☐ **HEPA 99.99% @ 0.3 Micron UL 900**

☐ ULPA 99.9995% @ 0.12 Micron UL 900

☐ Other _____

Control

Solid State Speed Control - Variable Speed Switch

Housing Finish

☐ **Mill Finish Aluminum (04)**

☐ Powder Coat Paint - White (26)

☐ 304 Stainless Steel (SS2)

Screen Finish

☐ Mill Finish Aluminum (04)

☐ Powder Coat Paint - White (26)

☐ 304 Stainless Steel (SS1)
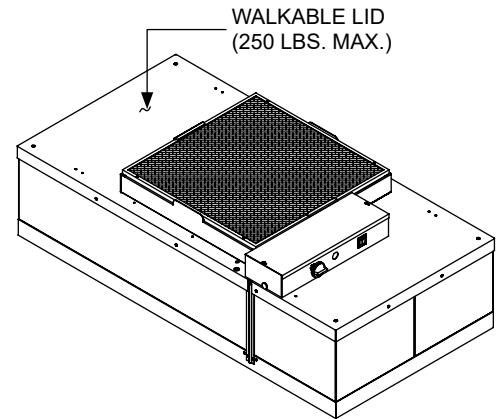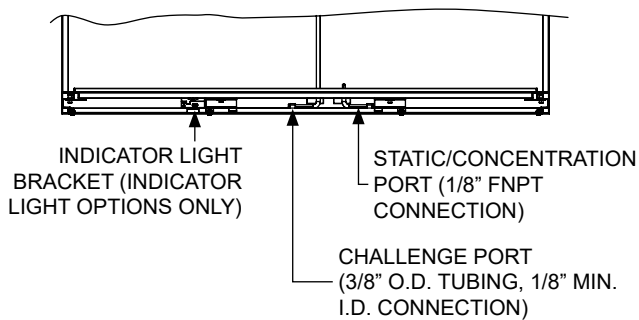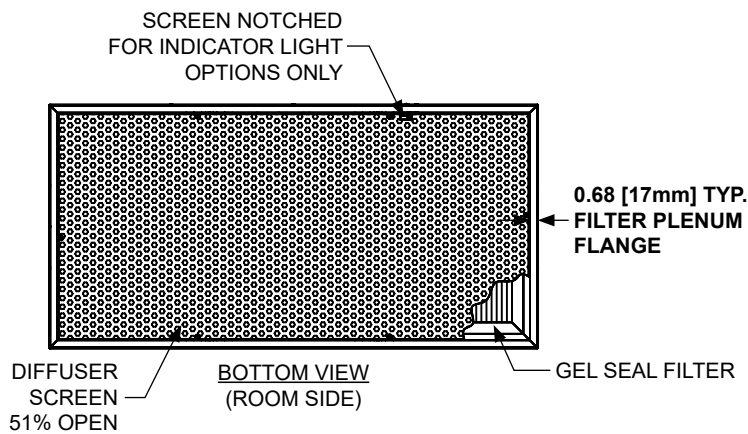
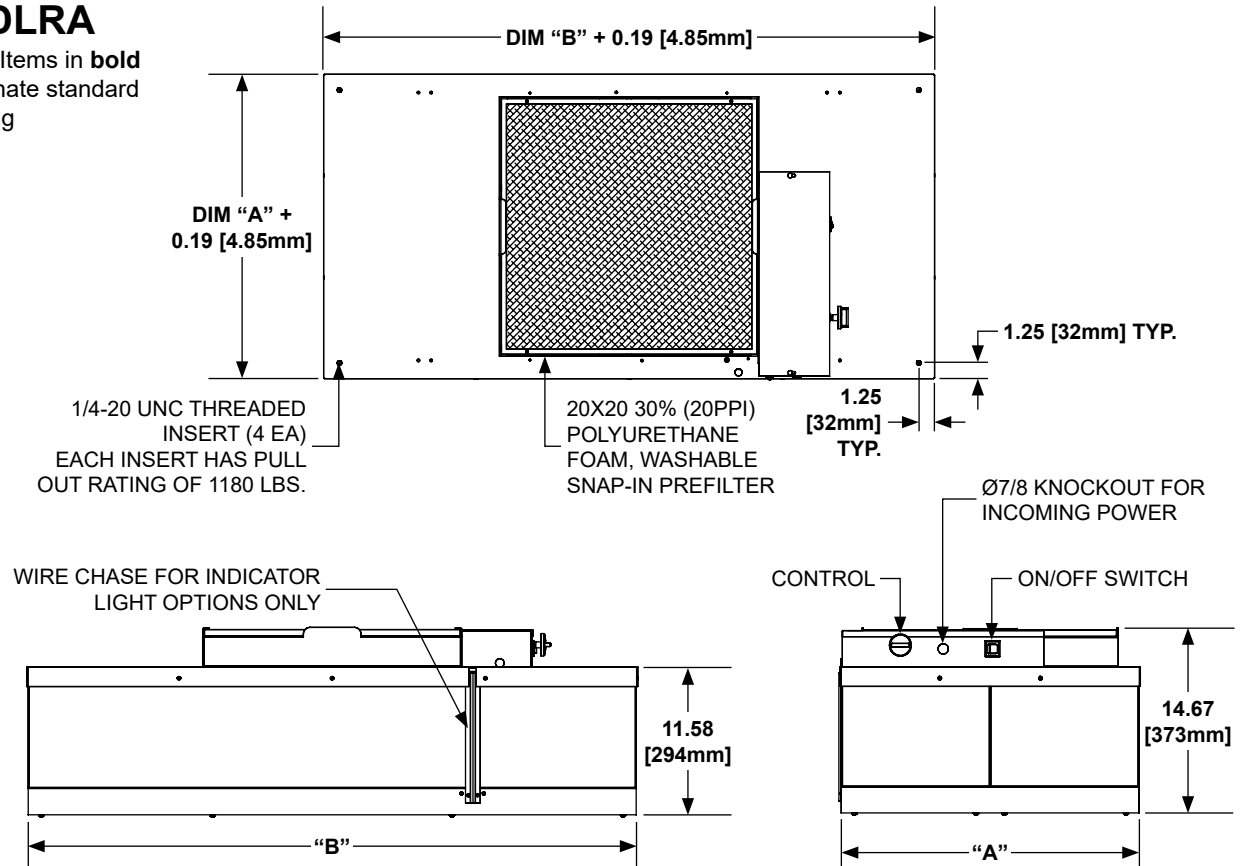### Options (Select multiple if applicable)

☐ Continuous Filter Monitoring (CFM)
[0-10V Output Signal]

☐ Insulation - Applied to Unit Top & Sides (INS)

☐ Challenge Ports (CHP)

☐ Surface Mount Frame (SMA)

Certification

☐ **UL 507 Listed (E152685)**

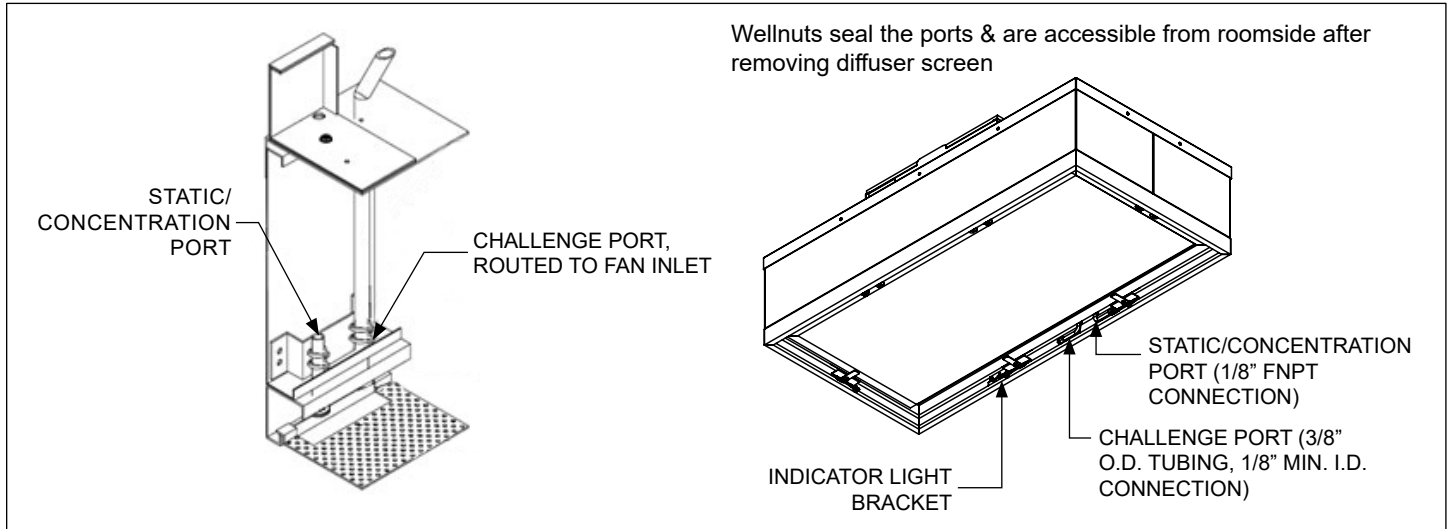Note: Items in **bold** designate standard offering

FFDLRA

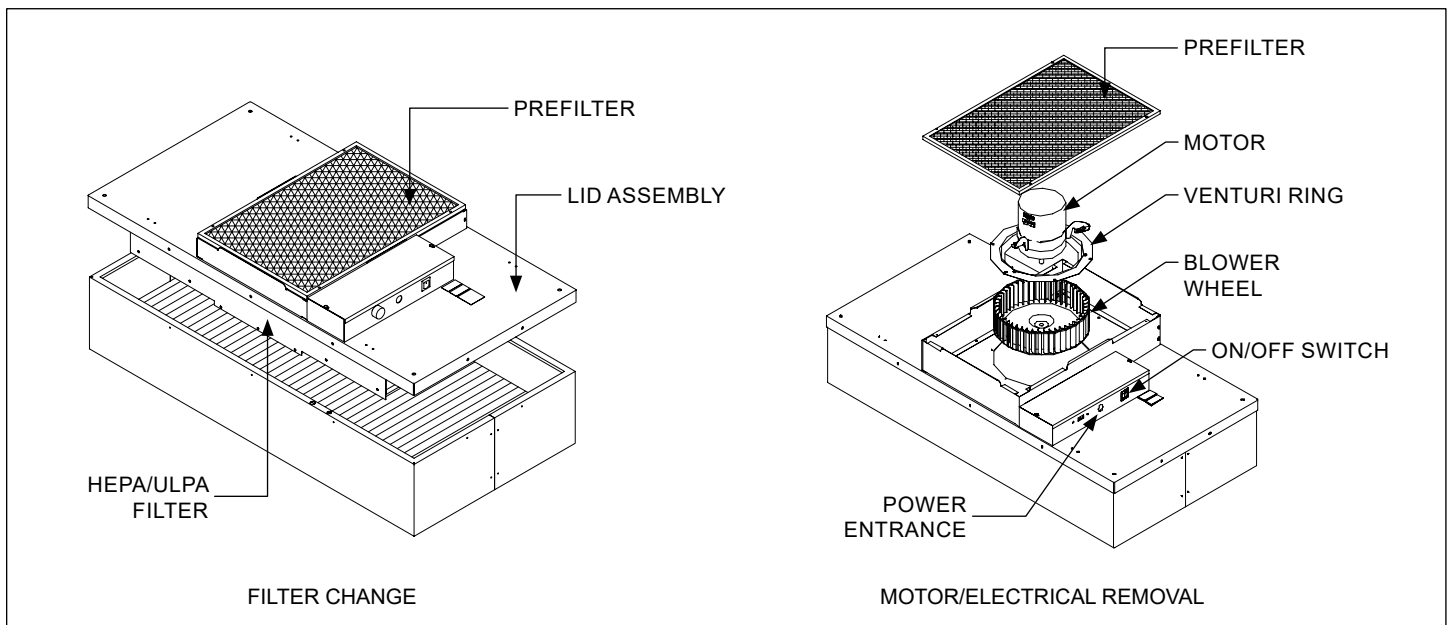Note: Items in **bold** designate standard offering

DIM "B" + 0.19 [4.85mm]

DIM "A" + 0.19 [4.85mm]

1/4-20 UNC THREADED INSERT (4 EA) EACH INSERT HAS PULL OUT RATING OF 1180 LBS.

20X20 30% (20PPI) POLYURETHANE FOAM, WASHABLE SNAP-IN PREFILTER

1.25 [32mm] TYP.

1.25 [32mm] TYP.

WIRE CHASE FOR INDICATOR LIGHT OPTIONS ONLY

11.58 [294mm]

"B"

Ø7/8 KNOCKOUT FOR INCOMING POWER

CONTROL — — ON/OFF SWITCH

14.67 [373mm]

"A"

SCREEN NOTCHED FOR INDICATOR LIGHT OPTIONS ONLY

WALKABLE LID (250 LBS. MAX.)

0.68 [17mm] TYP. FILTER PLENUM FLANGE

DIFFUSER SCREEN 51% OPEN

BOTTOM VIEW (ROOM SIDE)

GEL SEAL FILTER

INDICATOR LIGHT BRACKET (INDICATOR LIGHT OPTIONS ONLY)

STATIC/CONCENTRATION PORT (1/8" FNPT CONNECTION)

CHALLENGE PORT (3/8" O.D. TUBING, 1/8" MIN. I.D. CONNECTION)

SECTION "A"-"A" (SHOWN WITHOUT FILTER)

Housing Size (OD)		Nominal Filter Size
DIM "A" in (mm)	DIM "B" in (mm)	
23.63 (600)	**47.63 (1210)**	**2 X 4**
23.63 (600)	35.63 (905)	2 X 3
23.63 (600)	23.63 (600)	2 X 2
		**Other

** Contact Titus to Ensure Size Availability.

Challenge/Concentration Port Detail

STATIC/
CONCENTRATION
PORT

CHALLENGE PORT,
ROUTED TO FAN INLET

Wellnuts seal the ports & are accessible from roomside after
removing diffuser screen

STATIC/CONCENTRATION
PORT (1/8" FNPT
CONNECTION)

CHALLENGE PORT (3/8"
O.D. TUBING, 1/8" MIN. I.D.
CONNECTION)

INDICATOR LIGHT
BRACKET

HEPA Filter and Motor Replacement Detail

PREFILTER

LID ASSEMBLY

HEPA/ULPA
FILTER

FILTER CHANGE

PREFILTER

MOTOR

VENTURI RING

BLOWER
WHEEL

ON/OFF SWITCH

POWER
ENTRANCE

MOTOR/ELECTRICAL REMOVAL

Basic Unit Configuration

Check ☑ if provided.

Housing Style

☐ FFDLRA - Filter, Baffle, & Motor Roomside Removable

Motor

Three Speed AC Motor with Backward Inclined Wheel

☐ **120V, 60 Hz, 1 PHASE, 1.80 FLA**

☐ 277V, 60 Hz, 1 PHASE, 0.80 FLA

Filter

☐ **HEPA 99.99% @0.3 Micron UL 900**

☐ ULPA 99.9995% @0.12 Micron UL 900

☐ Other _____

Control

Solid State Speed Control - Variable Speed Switch

Housing Finish

☐ **Mill Finish Aluminum (04)**

☐ Powder Coat Paint - White (26)

☐ 304 Stainless Steel (SS2)
[Unit Height Increases by 3/8"]

Screen Finish

☐ **Mill Finish Aluminum (04)**

☐ Powder Coat Paint - White (26)

☐ 304 Stainless Steel (SS1)

Options (Select multiple if applicable)

☐ Motor Run Indicator Light - Green (AIL)
(ON = Motor Running; OFF = Motor Failure)

☐ Filter Load Indicator Light - Red (FLI)
(ON = Time to Change Filter)

☐ Continuous Filter Monitoring (CFM)
[0-10V Output Signal]

☐ Insulation - Applied to Unit Top & Side (INS)

☐ Filter Shipped Separately from Unit (FSL)
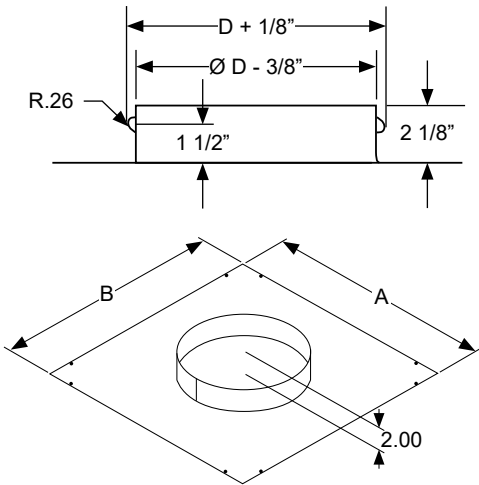
☐ Surface Mount Frame (SMA)

Certification

☐ **UL 507 Listed (E152685)**

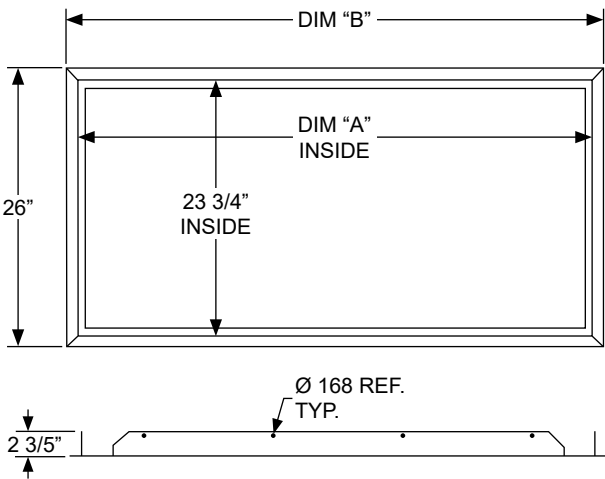Note: Items in **bold** designate standard offering

Inlet Adapter Accessory Detail

Duct Collar Dimensions

Model	Dim A	Dim B	Diameter	Unit Size	Part Number
FFDBR/A	20"	20"	10"	2X4	11231-001
FFDBR/A	20"	20"	12"	2X4	11231-002

D + 1/8"
Ø D - 3/8"
R.26
1 1/2"
2 1/8"
B
A
2.00

Surface Mount Adapter Accessory Detail

DIM "B"
DIM "A" INSIDE
26"
23 3/4" INSIDE
2 3/5"
Ø 168 REF. TYP.

Unit Size	A	B
24"x24"	23 3/4	26
48"x24"	47 3/4	50