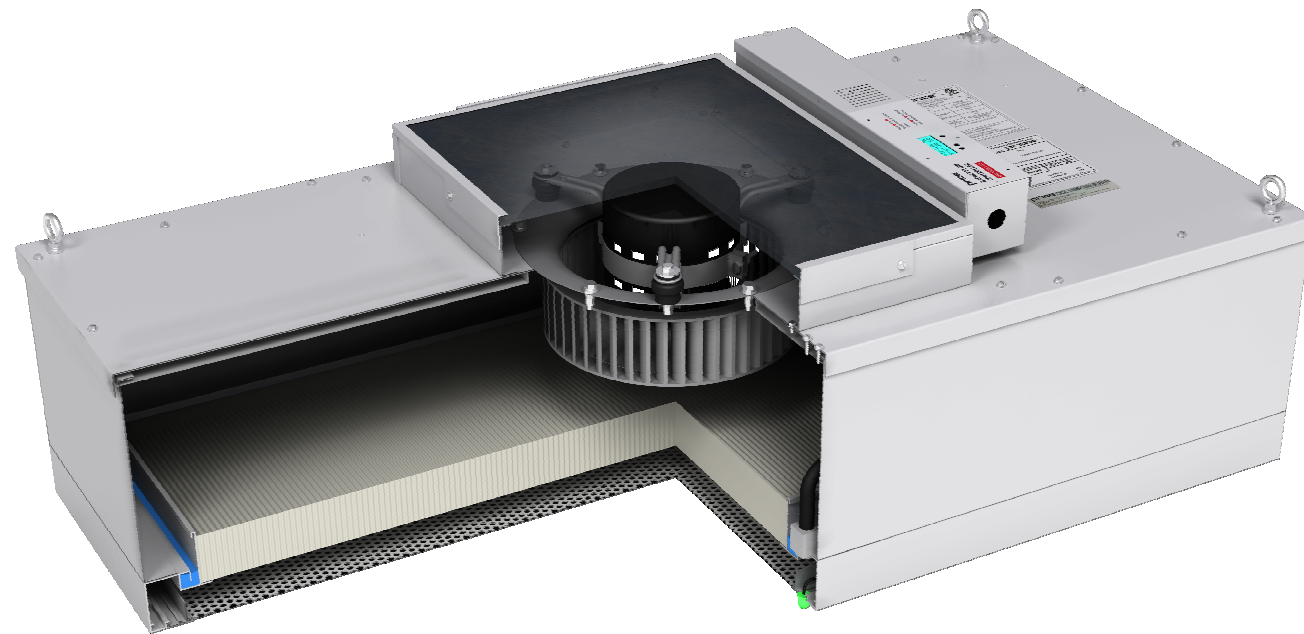


KROWN

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER

FEATURES:

- THE MOST ENERGY EFFICIENT LINE OF FAN FILTER UNITS (FAN FILTER MODULES) ON THE MARKET TODAY, USING 15-50% LESS ENERGY THAN COMPARABLE PRODUCTS
- PROVIDES HIGH VOLUMES OF HEPA FILTERED AIRFLOW (FOR 99.99% REMOVAL OF CONTAMINANTS) AT LOW SOUND LEVELS
- VERSATILE CONSTRUCTION OPTIONS TO SUIT ANY APPLICATION
 - ROOM-SIDE OR BENCH-TOP REPLACEABLE FILTER
 - SUPPLY OR REVERSE FLOW CONFIGURATIONS IN A VARIETY OF MODULE SIZES
 - FACTORY PROGRAMMED EC MOTOR
- QUICK AND EASY INSTALLATION AND OPTIONAL AEROSOL INJECTION PORT (INJ) FOR FILTER TESTING



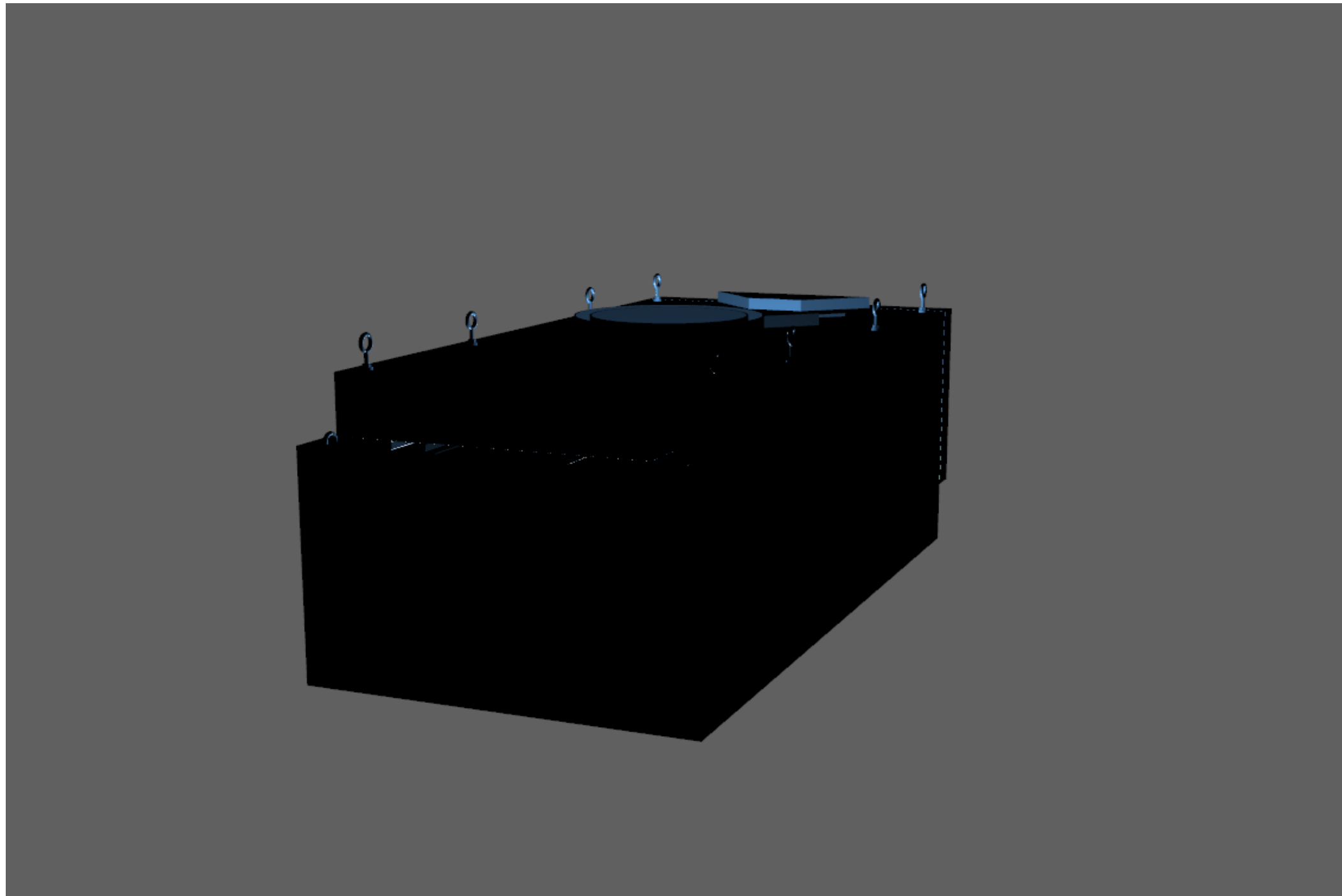
PROJECT:

274232

Revision: B

04-18-2023

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER
3D INTERACTIVE MODELS



PRODUCT CONFIGURATIONS
(CLICK BUTTONS TO TOGGLE VIEWS)

- USE THE SCROLL WHEEL TO ZOOM
- HOLD DOWN THE LEFT MOUSE BUTTON TO ROTATE
- HOLD DOWN CTRL AND LEFT MOUSE BUTTON TO MOVE



PROJECT:

274232

Revision: B

04-18-2023

KROWN

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER CONSTRUCTION DETAILS AND OPTIONS - SUPPLY

STANDARD CONSTRUCTION

- GALVANIZED CONTROL BOX WITH DISCONNECT SWITCH
- MOTOR/BLOWER ACCESSIBLE FROM ROOMSIDE AND TOPSIDE
- ROOMSIDE REMOVABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- WALKABLE PLENUM (250 LBS)
- STATIC PRESSURE AND AEROSOL SAMPLE PORT
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE APEX MOUNTING FRAME. SEE APEX SUBMITTAL (274236)
- SQUARE INLET COLLAR
- WASHABLE PRE-FILTER (NON-DUCTED UNITS)

PLENUM CONSTRUCTION

- ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
- STAINLESS STEEL - 304 PLENUM & KNIFE EDGE FRAME

FACE CONSTRUCTION

- ALUMINUM (EXTRUDED FRAME)
- STAINLESS STEEL - 304 PERF SCREEN & INNER FRAME

PLENUM FINISH

- WASHED MILL ALUMINUM
- B12 STANDARD WHITE
- STAINLESS STEEL - 2B PLENUM & STAINLESS STEEL - #4 KNIFE EDGE (OPTIONAL FINISH AVAILABLE)

FACE FINISH

- WASHED MILL ALUMINUM
- B12 - STANDARD WHITE
- #4 STAINLESS STEEL (OPTIONAL FINISH AVAILABLE)

INLET SIZES

- NONE (UNDUCTED)
- 10" [254mm] ROUND
- 12" [305mm] ROUND
- 14" [356mm] ROUND

FILTER

- HEPA - 2" - IEST RP CC001 TYPE J
- ULPA - 2" - IEST RP CC001 TYPE F

FAN POWER VOLTAGE

- 115V
- 208V
- 240V
- 277V

MOTOR

- PSC MOTOR, 60Hz, 1 PHASE
- EC MOTOR, 50/60 Hz, 1 PHASE

WHEEL

- FORWARD CURVED
- BACKWARD CURVED

FAN CONTROLLER

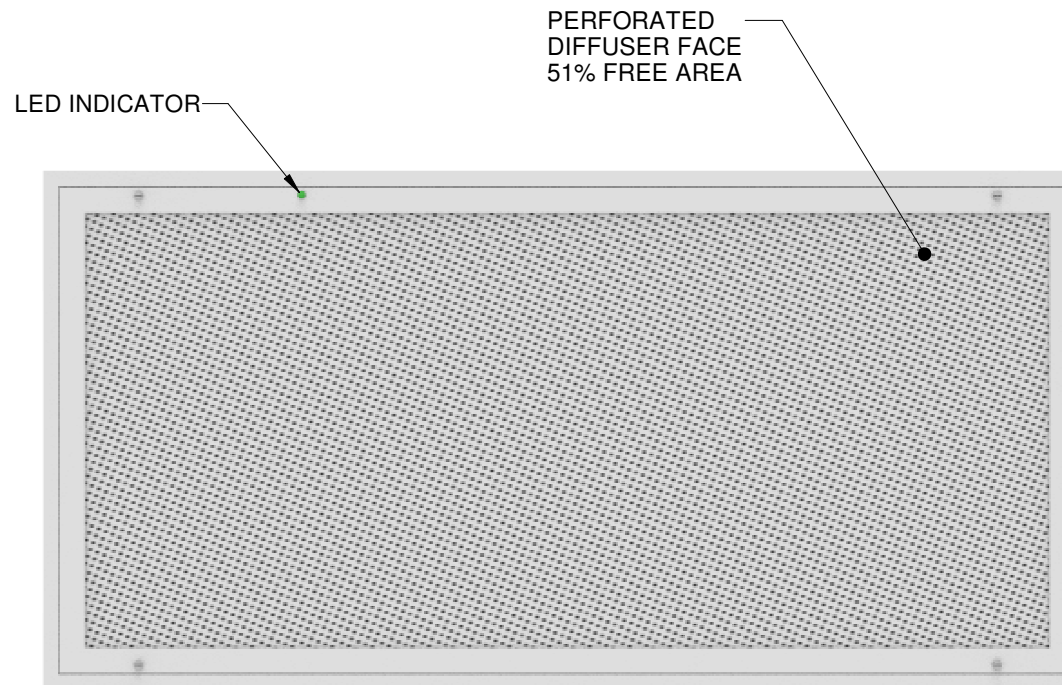
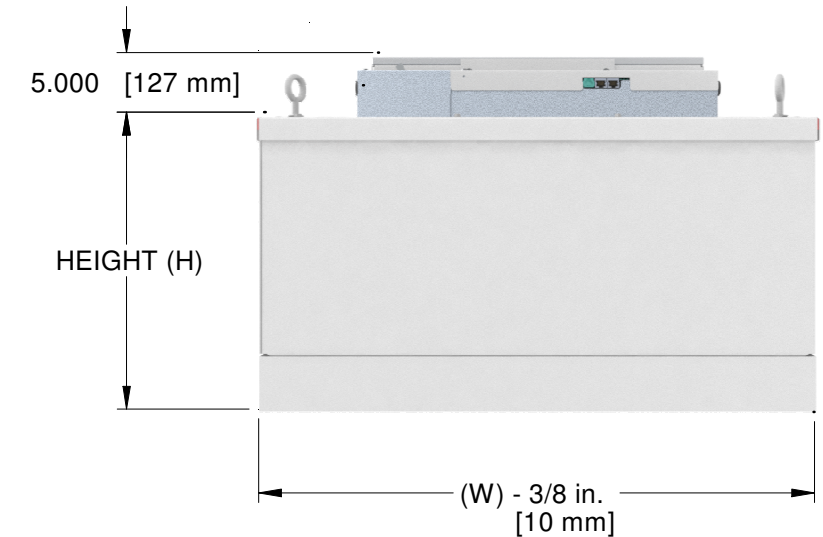
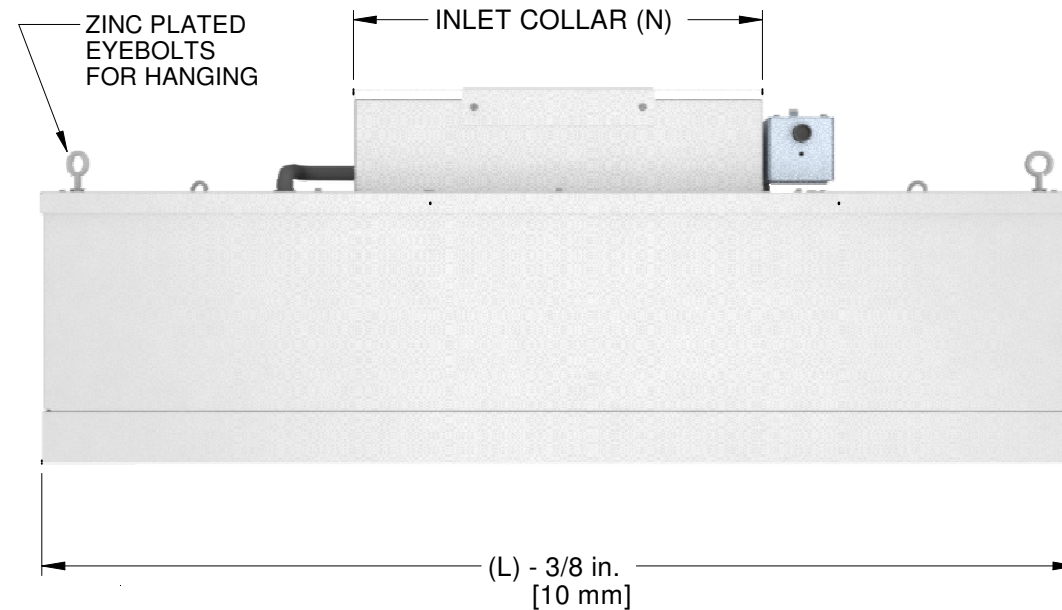
- PSC MOTOR STANDARD UNIVERSAL SPEED CONTROLLER
- EC MOTOR STANDARD SPEED CONTROLLER
- BACnet FLOW CONTROLLER. MOTOR AND FILTER STATUS OVER BACnet. SEE BFC MANUAL FOR DETAILS. (EC MOTOR ONLY)

FILTER AND MOTOR STATUS LIGHTS

- TRI-COLOR FACE MOUNTED LED FILTER AND MOTOR STATUS LIGHT
- EC MOTOR LED INTEGRATES WITH BACnet, PSC MOTOR LED INCLUDES 6" TALL CONTROL BOX

MOTOR PROGRAM

- CONSTANT FLOW
- CONSTANT TORQUE



SI UNITS (MM)

WHEEL TYPE	NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	HEIGHT (H)*	INLET COLAR (N)	FILTER AREA (m ²)	MAX AMPS FAN (PSC) (115/240/277)	MAX AMPS FAN (EC) (115/240/277)
FC	610x610	600	600	320	410	0.21	2.3/1.3/1.2	2.6/2.0/1.7
	610x915	600	905	320	510	0.36	3.9/1.9/1.8	4.4/2.7/2.5
	610x1220	600	1210	320	510	0.49	4.7/2.0/1.8	4.8/3.0/2.7
BC	610x915	600	905	320	510	0.36	2.5/1.0/1.0	3.3/2.1/1.9
	610x1220	600	1210	320	510	0.49	2.5/1.0/1.0	3.2/2.0/1.7

*LEDK OPTION WITH PSC MOTOR ADDS 152 mm TALL LED BOX

IMPERIAL UNITS (INCHES)

WHEEL TYPE	NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	HEIGHT (H)*	INLET COLAR (N)	FILTER AREA (ft ²)	MAX AMPS FAN (PSC) (115/240/277)	MAX AMPS FAN (EC) (115/240/277)
FC	24x24	23.625	23.625	12.750	16.000	2.3	2.3/1.3/1.2	2.6/2.0/1.7
	24x36	23.625	35.625	12.750	20.000	3.8	3.9/1.9/1.8	4.4/2.7/2.5
	24x48	23.625	47.625	12.750	20.000	5.3	4.7/2.0/1.8	4.8/3.0/2.7
BC	24x36	23.625	35.625	12.750	20.000	3.8	2.5/1.0/1.0	3.3/2.1/1.9
	24x48	23.625	47.625	12.750	20.000	5.3	2.5/1.0/1.0	3.2/2.0/1.7

*LEDK OPTION WITH PSC MOTOR ADDS 6" TALL LED BOX

OPTIONS

- WALL MOUNTED SPEED CONTROL (SEE KROWN-CS SUBMITTAL 274235)
- POWER CORD (8ft 115V or 6ft 277V)
- ROOMSIDE + TOP ACCESSIBLE CONTROLS
- MERV 8 PRE-FILTER (NON-DUCTED UNITS ONLY)
- MERV 8 PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
- WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
- 1/2" DIA. BARBED ROOMSIDE AEROSOL INJECTION PORT
- NETC12 - 12 FOOT RJ45 NETWORKING CABLE FOR BACnet DAISY CHAIN
- NETC35 - 35 FOOT RJ45 NETWORKING CABLE FOR BACnet DAISY CHAIN



PROJECT:

274232

Revision: B

04-18-2023

KROWN

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER CONSTRUCTION DETAILS AND OPTIONS - REVERSE FLOW

STANDARD CONSTRUCTION

- FORWARD CURVED BLOWER WHEEL
- ROOM SIDE ACCESSIBLE MOTOR AND BLOWER ASSEMBLY
- STATIC PRESSURE PORT
- ROOM SIDE REMOVABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- WALKABLE PLENUM (250 LBS)
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE APEX MOUNTING FRAME. SEE APEX SUBMITTAL (274236)

PLENUM CONSTRUCTION

- ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
- STAINLESS STEEL - 304 PLENUM AND KNIFE EDGE FRAME

FACE CONSTRUCTION

- ALUMINUM (EXTRUDED FRAME)
- STAINLESS STEEL - 304 PERF SCREEN & INNER FRAME

PLENUM FINISH

- WASHED MILL ALUMINUM
- B12 - STANDARD WHITE
- STAINLESS STEEL - 2B PLENUM & STAINLESS STEEL - #4 KNIFE EDGE (OPTIONAL FINISH AVAILABLE)

FACE FINISH

- WASHED MILL ALUMINUM
- B12 - STANDARD WHITE
- #4 STAINLESS STEEL (OPTIONAL FINISH AVAILABLE)

INLET SIZE

- 8" [203mm] ROUND
- 10" [254mm] ROUND
- 12" [305mm] ROUND

FILTER

- HEPA - 2" - IEST RP CC001 TYPE J
- ULPA - 2" - IEST RP CC001 TYPE F

FAN POWER VOLTAGE

- 115V
- 208V
- 240V
- 277V

MOTOR

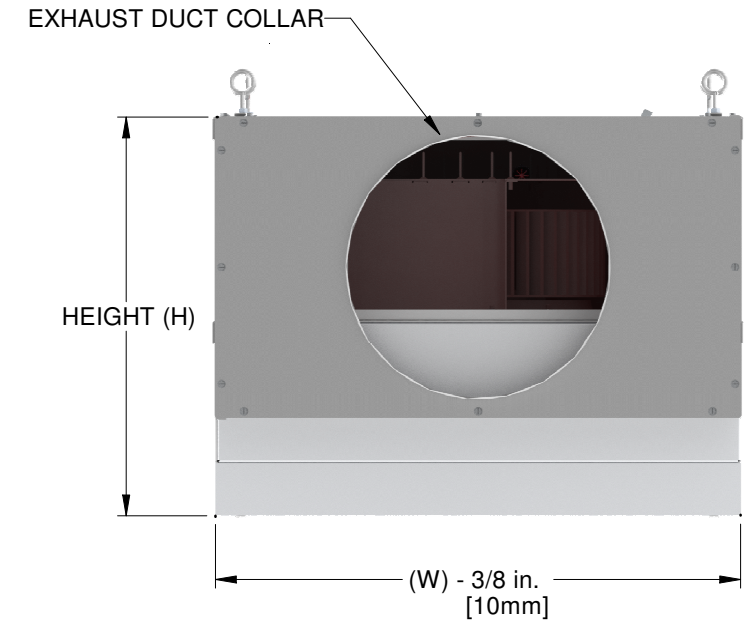
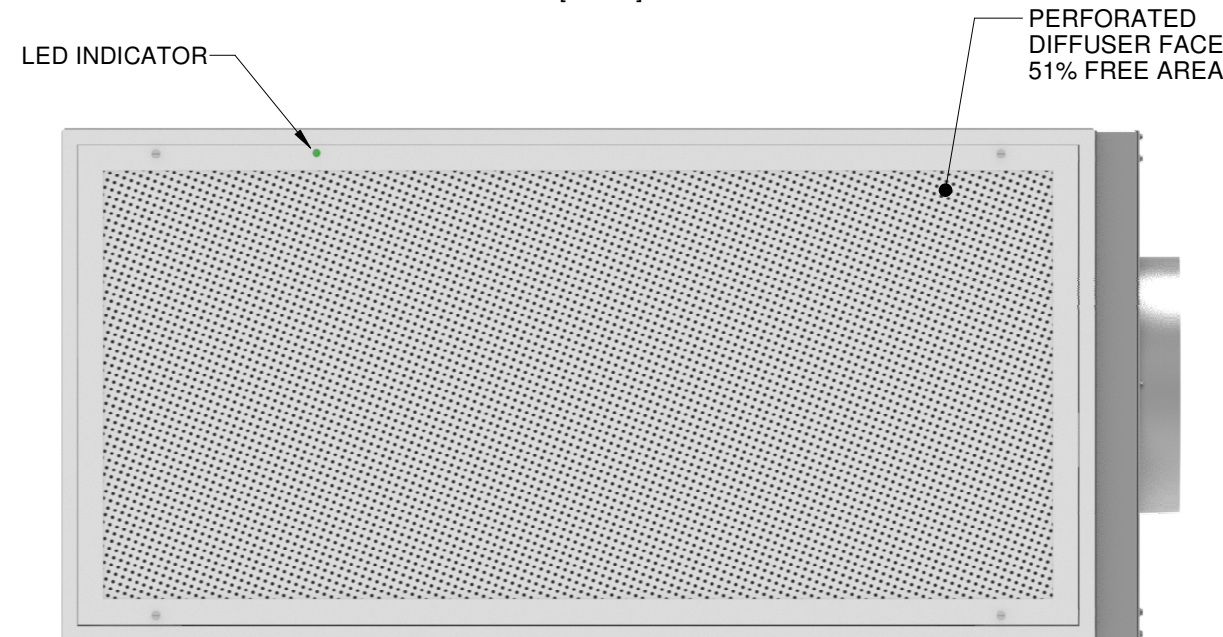
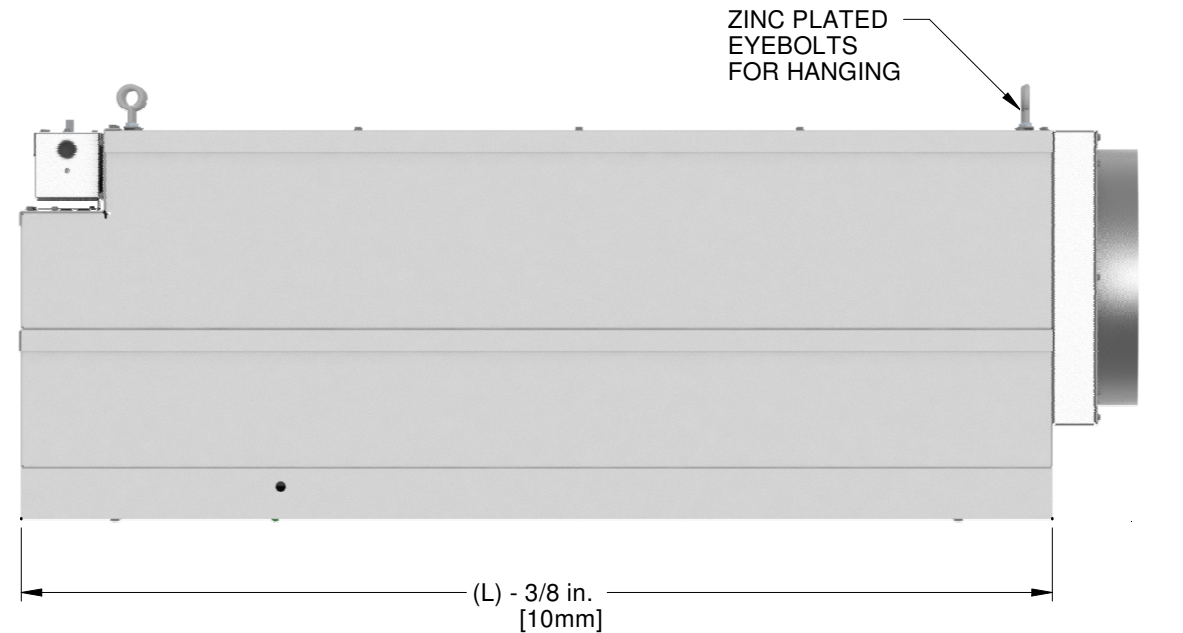
- PSC MOTOR, 60Hz, 1 PHASE
- EC MOTOR, 50/60 Hz, 1 PHASE

FAN CONTROLLER

- PSC MOTOR STANDARD UNIVERSAL SPEED CONTROLLER
- EC MOTOR STANDARD SPEED CONTROLLER
- BACnet FLOW CONTROLLER. MOTOR AND FILTER STATUS OVER BACnet. SEE BFC MANUAL FOR DETAILS. (EC MOTOR ONLY)

FILTER AND MOTOR STATUS LIGHTS

- TRI-COLOR FACE MOUNTED LED FILTER AND MOTOR STATUS LIGHT
- EC MOTOR LED INTEGRATES WITH BACnet (W/ BFC CONTROLLER ONLY)



SI UNITS (MM)

NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	HEIGHT* (H)	FILTER AREA (mm ²)	MAX AMPS FAN (PSC) (115/240/277)	MAX AMPS FAN (EC) (115/240/277)
610x610	600	600	520	0.21	2.2/1.0/1.0	2.6/1.6/1.5
610x1220	600	905	320	0.49	5.1/2.1/2.1	4.8/3.0/2.7

IMPERIAL UNITS (INCHES)

NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	HEIGHT* (H)	FILTER AREA (ft ²)	MAX AMPS FAN (PSC) (115/240/277)	MAX AMPS FAN (EC) (115/240/277)
24x24	23.625	23.625	20.500	2.3	2.2/1.0/1.0	2.6/1.6/1.5
24x48	23.625	47.625	18.000	5.3	5.1/2.1/2.1	4.8/3.0/2.7

MOTOR PROGRAM

- CONSTANT FLOW
- CONSTANT TORQUE

OPTIONS

- WALL MOUNTED SPEED CONTROL (SEE KROWN-CS SUBMITTAL 274235)
- POWER CORD (8ft 115V or 6ft 277V)
- MERV 8 PRE-FILTER
- NETC12 - 12 FOOT RJ45 NETWORKING CABLE FOR BACnet DAISY CHAIN
- NETC35 - 35 FOOT RJ45 NETWORKING CABLE FOR BACnet DAISY CHAIN



PROJECT:

274232

Revision: B

04-18-2023

KROWN-D

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER CONSTRUCTION DETAILS AND OPTIONS - DUAL-OUTLET REVERSE FLOW

STANDARD CONSTRUCTION

- ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
- GALVANIZED STEEL CONTROL BOX W/ DISCONNECT SWITCH
- 51% OPEN AREA ALUMINUM PERFORATED FACE
- FORWARD CURVED BLOWER WHEEL
- MOTOR/BLOWER ACCESSIBLE FROM ROOMSIDE
- ROOMSIDE REMOVABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- WALKABLE PLENUM (250 LBS)
- FOR SURFACE CEILING MOUNT INSTALLATION ORDER SEPARATE APEX MOUNTING FRAME. SEE APEX SUBMITTAL (274236)
- ROUND EXHAUST AND RECIRCULATING OUTLETS
- MERV8 PRE-FILTER (FACE FRAME ACCESS)

FINISH

- B12 STANDARD WHITE

PRIMARY DUCT

- 8" [203mm] ROUND RECIRCULATION DUCT COLLAR
- 10" [254mm] ROUND RECIRCULATION DUCT COLLAR
- 12" [305mm] ROUND RECIRCULATION DUCT COLLAR (w/ 8" [203] EXHAUST DUCT COLLAR ONLY)

SECONDARY DUCT

- 8" [203mm] ROUND EXHAUST DUCT COLLAR (w/ MANUAL DAMPER)
- 10" [254mm] ROUND EXHAUST DUCT COLLAR (w/ MANUAL DAMPER)

FILTER

- HEPA - 2" - IEST RP CC001 TYPE J
- ULPA - 2" - IEST RP CC001 TYPE F

FAN POWER VOLTAGE

- 115V
- 208V
- 240V
- 277V

MOTOR

- PSC MOTOR, 60Hz, 1 PHASE
- EC MOTOR, 50/60 Hz, 1 PHASE

FAN CONTROLLER

- PSC MOTOR STANDARD UNIVERSAL SPEED CONTROLLER
- EC MOTOR STANDARD SPEED CONTROLLER
- BACnet FLOW CONTROLLER. MOTOR AND FILTER STATUS OVER BACnet. SEE BFC MANUAL FOR DETAILS. (EC MOTOR ONLY)

FILTER AND MOTOR STATUS LIGHTS

- TRI-COLOR FACE MOUNTED LED FILTER AND MOTOR STATUS LIGHT
- EC MOTOR LED INTEGRATES WITH BACnet (W/ BFC CONTROLLER ONLY)

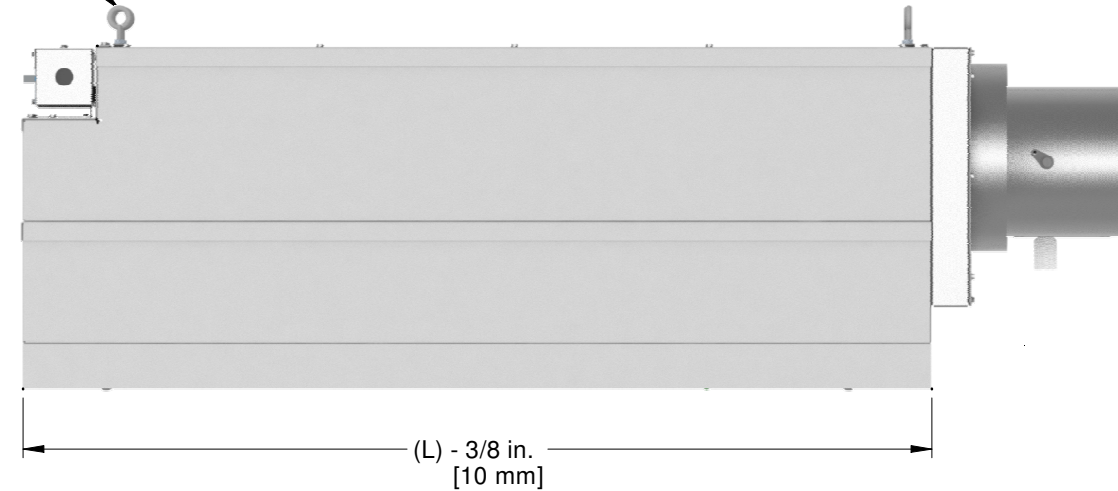
MOTOR PROGRAM

- CONSTANT FLOW
- CONSTANT TORQUE

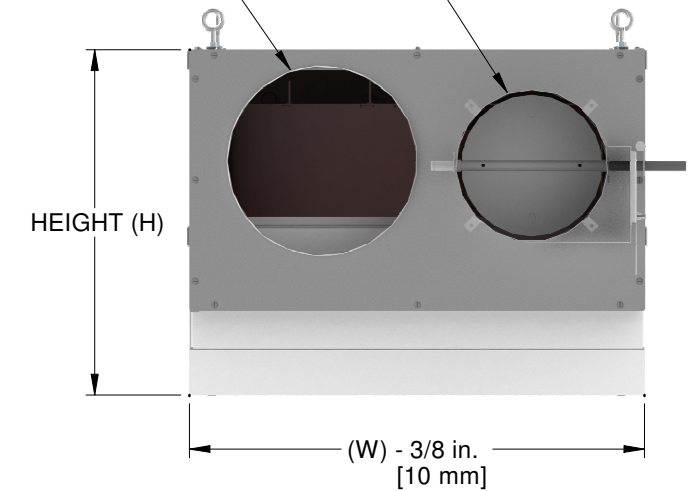
OPTIONS

- WALL MOUNTED SPEED CONTROL (SEE KROWN-CS SUBMITTAL 274235)
- POWER CORD (8ft 115V or 6ft 277V)
- ULTRAVIOLET LIGHT (24x48" ONLY)
- BIPOLAR IONIZATION & ULTRAVIOLET LIGHT (24x48" ONLY)

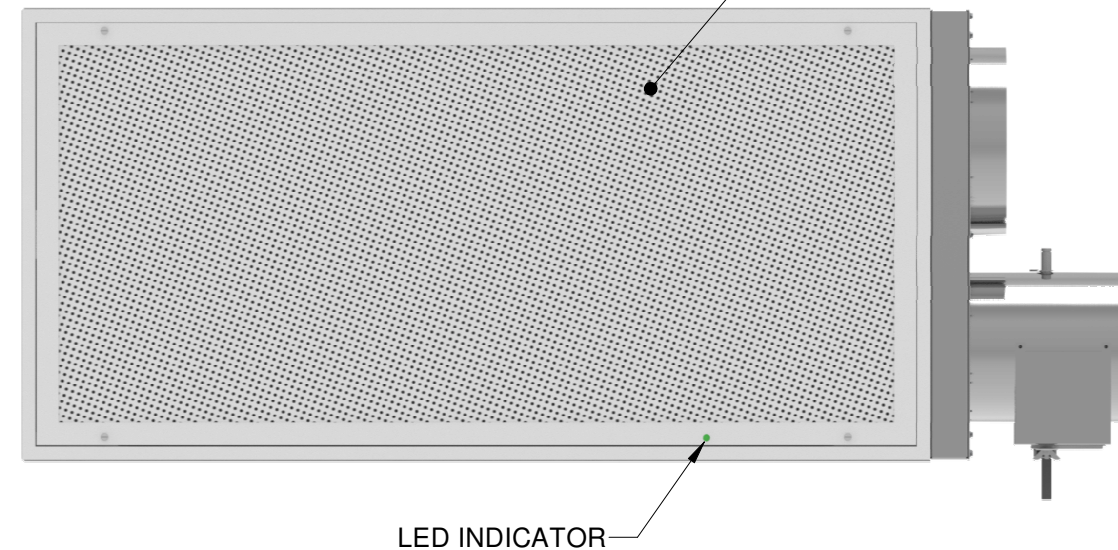
ZINC PLATED EYEBOLTS FOR HANGING



RECIRCULATION DUCT COLLAR
EXHAUST DUCT COLLAR WITH MANUAL DAMPER



PERFORATED DIFFUSER FACE
51% FREE AREA



LED INDICATOR

IMPERIAL UNITS (INCHES)

NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	HEIGHT (H)*	MAX AMPS FAN (PSC) (115/240/277)	MAX AMPS FAN (EC) (115/240/277)
24x24	23.625	23.625	20.500	2.8/1.3/1.3	3.1/2.0/1.7
24x48	23.625	47.625	18.000	5.1/2.2/2.2	4.8/3.0/2.7
24x48 (w/ UV C)	23.625	47.625	20.900	5.1/2.2/2.2	5.1/3.1/2.8

*LEDK OPTION WITH PSC MOTOR ADDS 6" TALL LED BOX

SI UNITS (MM)

NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	HEIGHT (H)*	MAX AMPS FAN (PSC) (115/240/277)	MAX AMPS FAN (EC) (115/240/277)
610 x 610	600	600	521	2.8/1.3/1.3	3.1/2.0/1.7
610 x 1220	600	1210	457	5.1/2.2/2.2	4.8/3.0/2.7
610 x 1220 (w/ UVC)	600	1210	531	5.1/2.2/2.2	5.1/3.1/2.8

*LEDK OPTION WITH PSC MOTOR ADDS 152mm TALL LED BOX



PROJECT:

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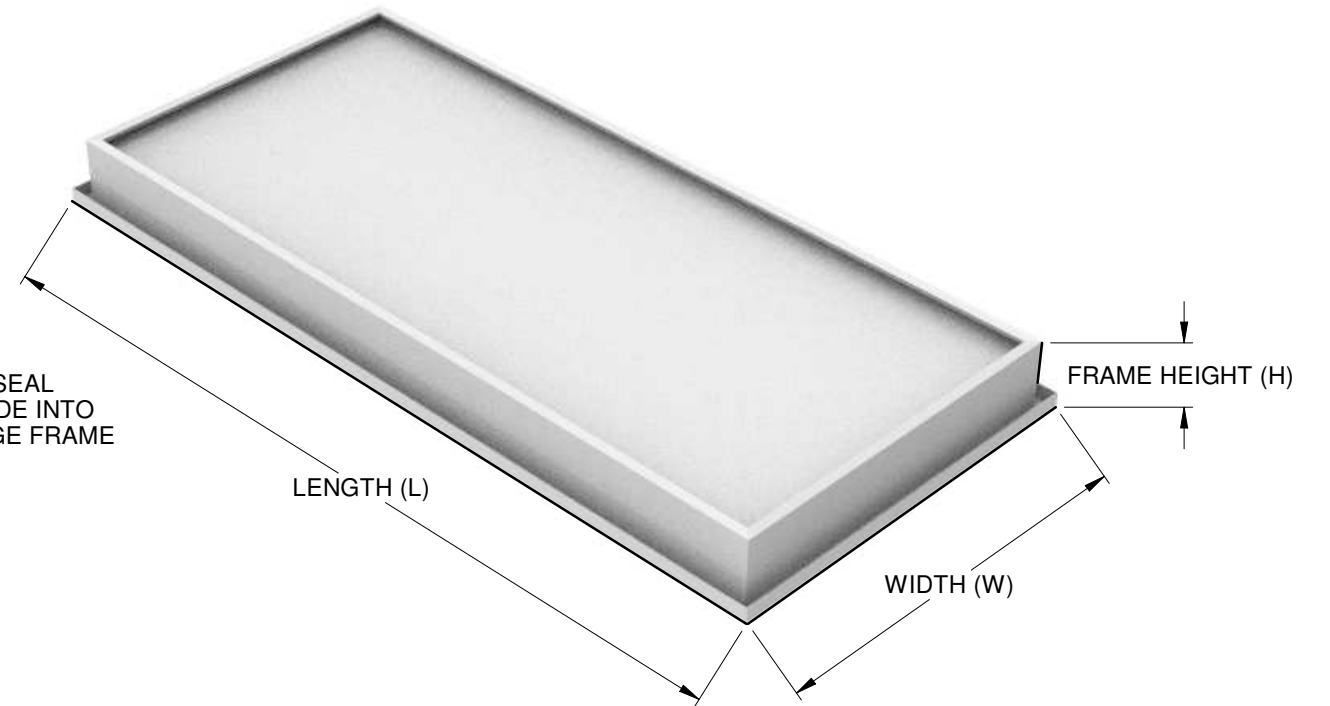
FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER FILTER DETAILS



FILTER WITH GEL SEAL
INSTALLS ROOMSIDE INTO
KROWN KNIFE EDGE FRAME

DIFFUSER FACE SECURED WITH
STAINLESS STEEL 1/4 TURN FASTENERS

MERV 8
PRE-FILTER



NOTES

- FILTER PLEATS RUN PARALLEL TO THE WIDTH (W) DIMENSION
- DIMENSIONS L & W TOLERANCES +/- 1/16"
- FILTERS COME WITH GEL SEAL FILLED CHANNEL
- EXPANDED PAINTED WHITE SCREEN ON THE DOWNSTREAM SIDE
- FRAME DETAILS:
 - MATERIAL: ANODIZED EXTRUDED ALUMINUM
 - THICKNESS: 1/16" (MINIMUM)
- HEPA FILTERS EFFICIENCY AND LEAK SCAN TESTED TO IEST RP CC001 TYPE J
- ULPA FILTERS EFFICIENCY AND LEAK SCAN TESTED TO IEST RP CC001 TYPE F
- FILTER PACKAGED SEPERATELY FROM DIFFUSER FOR JOB SITE INSTALLATION BY OTHERS
- MERV8 PRE-FILTER IS ROOM-SIDE REPLACEABLE ON EXHAUST UNITS AND CEILING ACCESSIBLE ON SUPPLY UNITS

IMPERIAL UNITS (MM)

NOMINAL UNIT SIZE	ACTUAL FILTER SIZE		
	WIDTH (W)	LENGTH (L)	HEIGHT (H)
24 x 24	20.69	20.69	2.88
24 x 36	20.69	32.69	2.88
24 x 48	20.69	44.69	2.88

SI UNITS (MM)

NOMINAL UNIT SIZE	ACTUAL FILTER SIZE		
	WIDTH (W)	LENGTH (L)	HEIGHT (H)
610 x 610	526	526	73
610 x 915	526	830	73
610 x 1220	526	1135	73



PROJECT:

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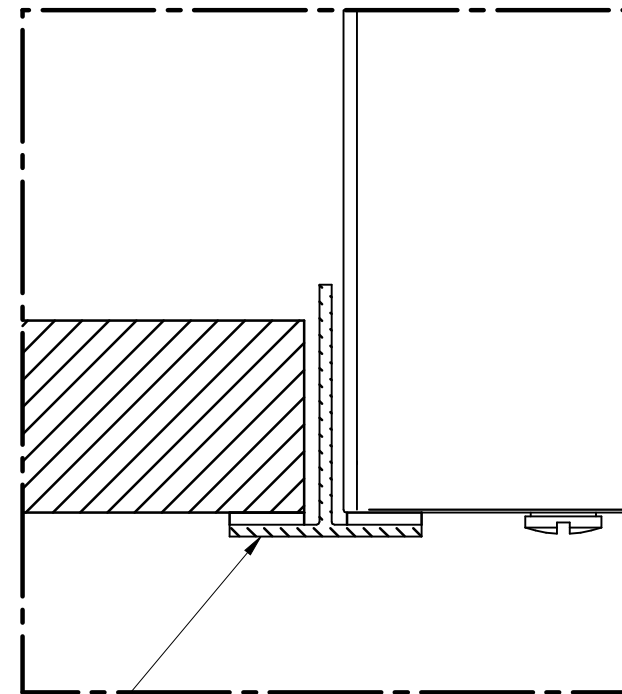
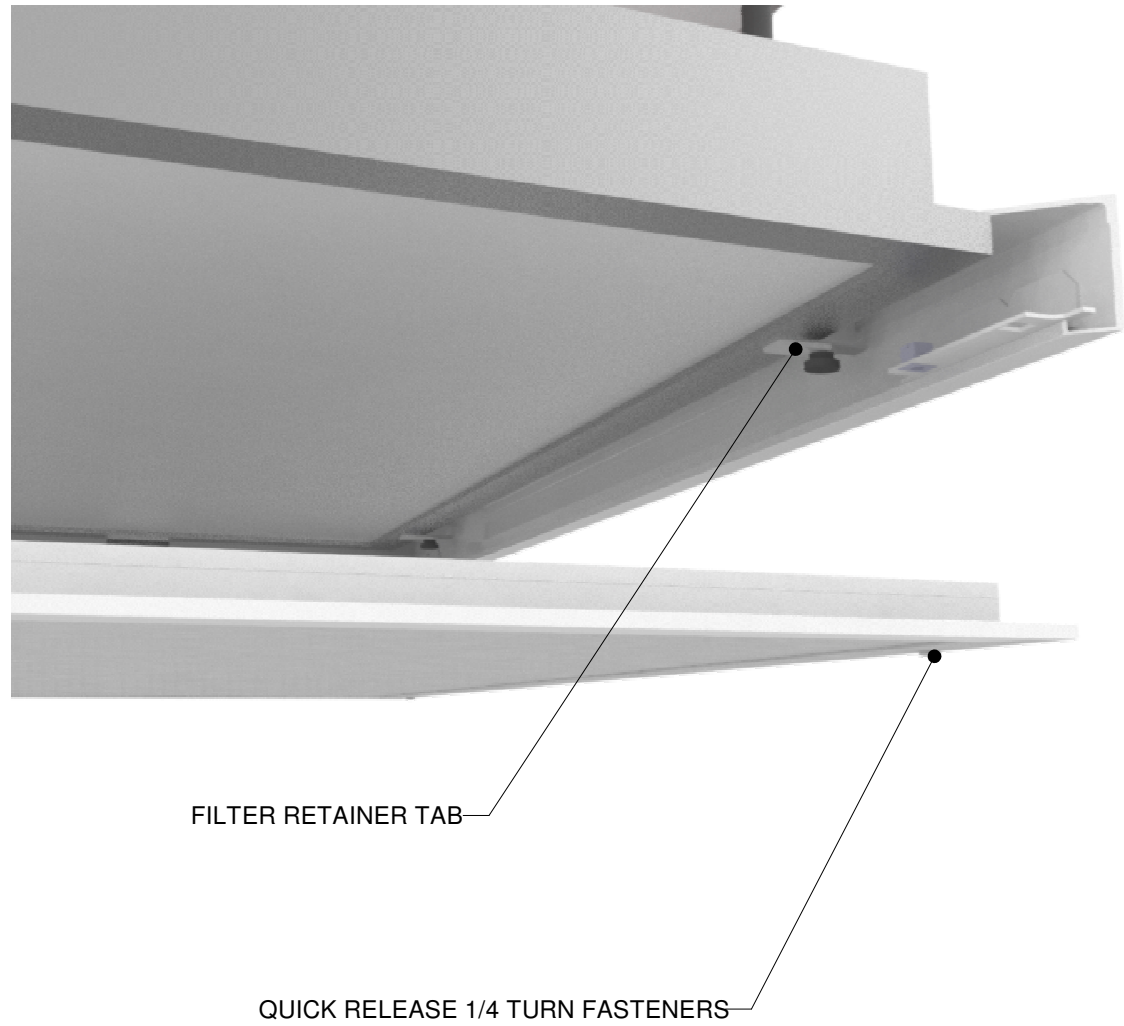
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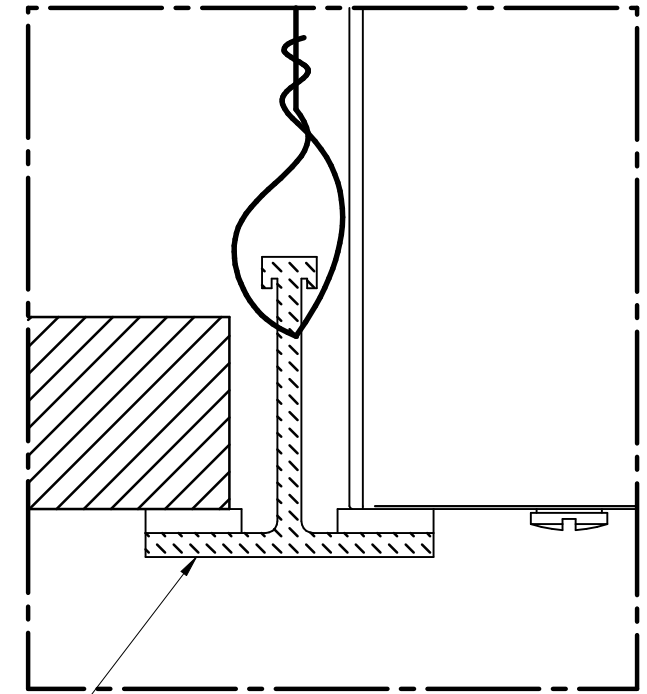
VISIT KEYSTONE CLEAN AIR SOLUTIONS WEBSITE FOR FILTER INSTALLATION GUIDE

KROWN

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER FILTER & CEILING MOUNTING DETAILS



FOR 15/16" (23), 1-1/2" (38) CLEANROOM TEE
INSTALLED BY OTHERS



SURFACE MOUNTING
USING APEX-MF OR MOUNTING FRAME
BY OTHERS

NOTES:

- LAY IN CEILING INSTALLATION ONLY. UNIT SIZE DESIGNED FOR 1" WIDE T-BAR OR 1.5" WIDE T-BAR.
- FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE APEX MOUNTING FRAME.

VISIT KEYSTONE CLEAN AIR SOLUTIONS WEBSITE FOR FILTER INSTALLATION GUIDE



PROJECT:

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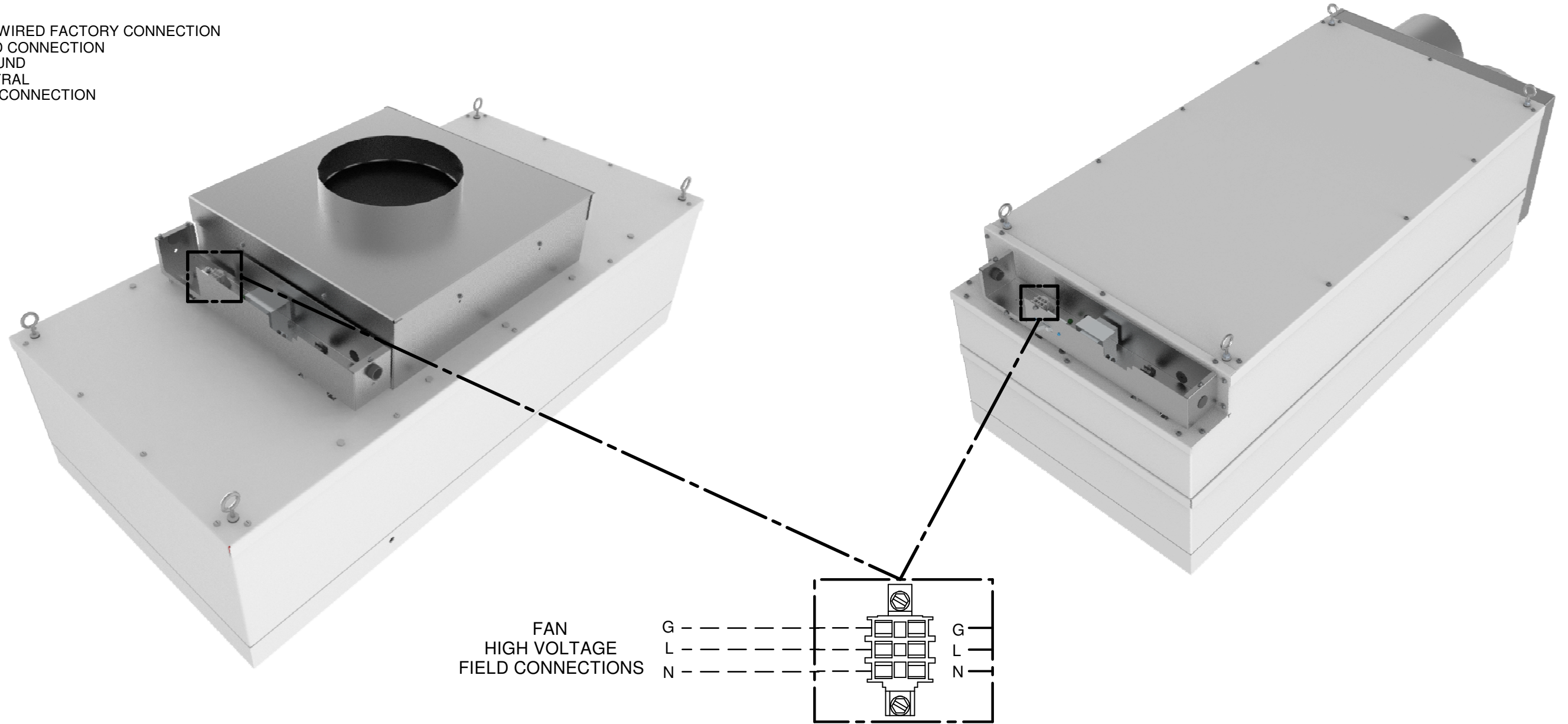
Revision: B

04-18-2023

KROWN

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER FIELD CONNECTION DETAILS

— PRE-WIRED FACTORY CONNECTION
- - - FIELD CONNECTION
G GROUND
N NEUTRAL
L LINE CONNECTION



PROJECT:

274232

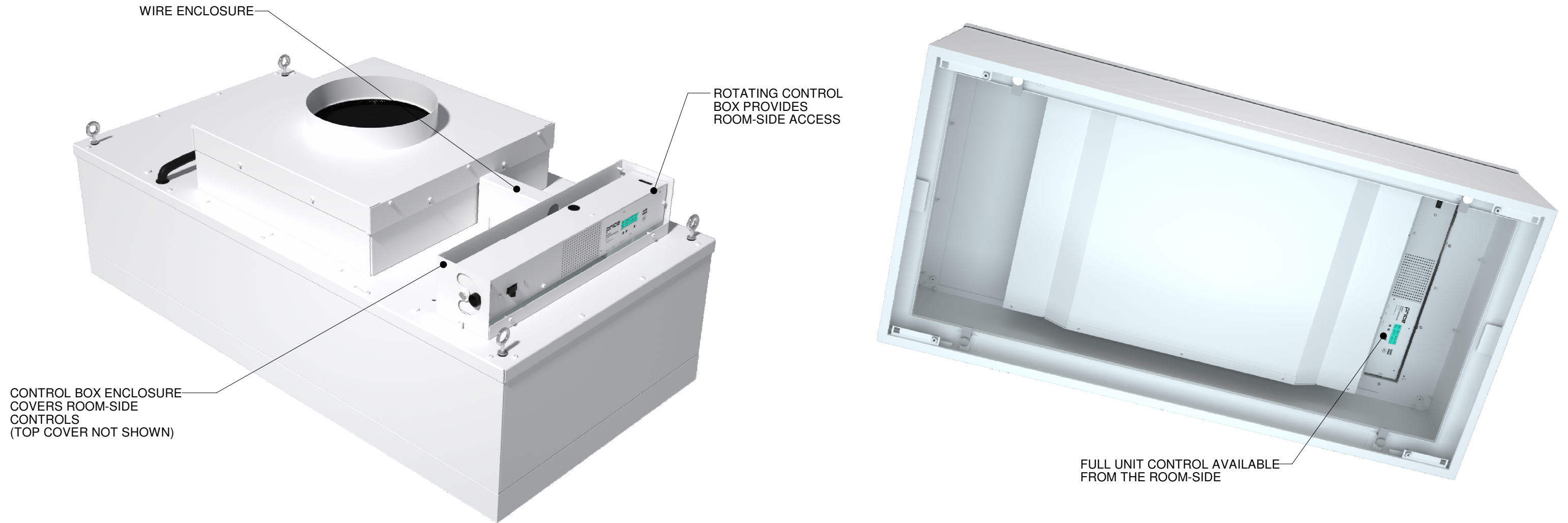
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INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS

KROWN

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER ROOM-SIDE ACCESSIBLE CONTROLS



NOTES

- OPTIONAL ROTATING CONTROL BOX ALLOWS ACCESS TO CONTROLS FROM BOTH THE TOP OF THE UNIT AND THE ROOM-SIDE
- FOR ROOM-SIDE ACCESS, REMOVE THE DIFFUSER FACE, HEPA FILTER, AND GASKETED CONTROLS COVER FROM INSIDE THE PLENUM
- REGARDLESS OF THE CONTROL BOX ORIENTATION, THE DISCONNECT SWITCH IS EASILY ACCESSIBLE



PROJECT:

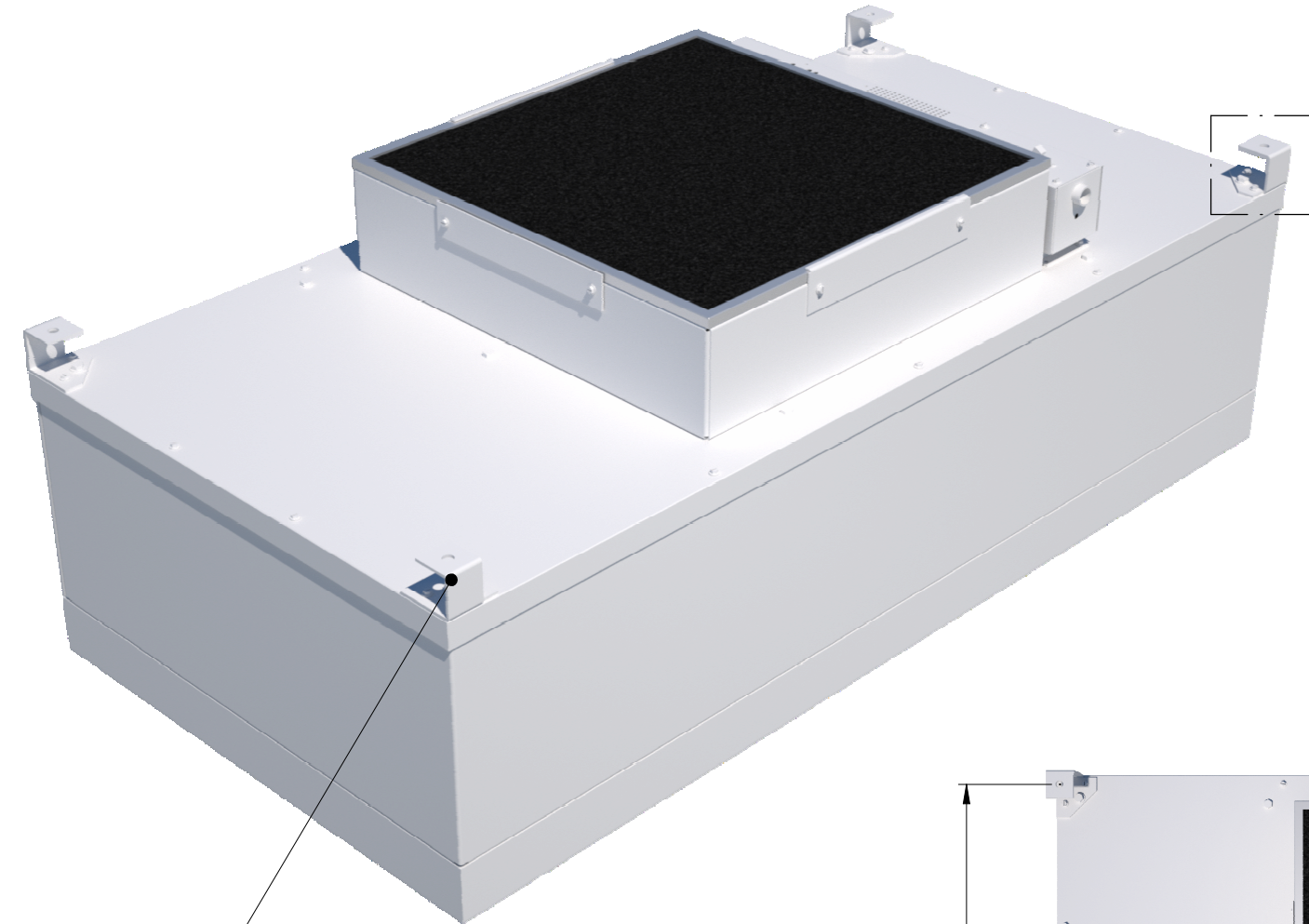
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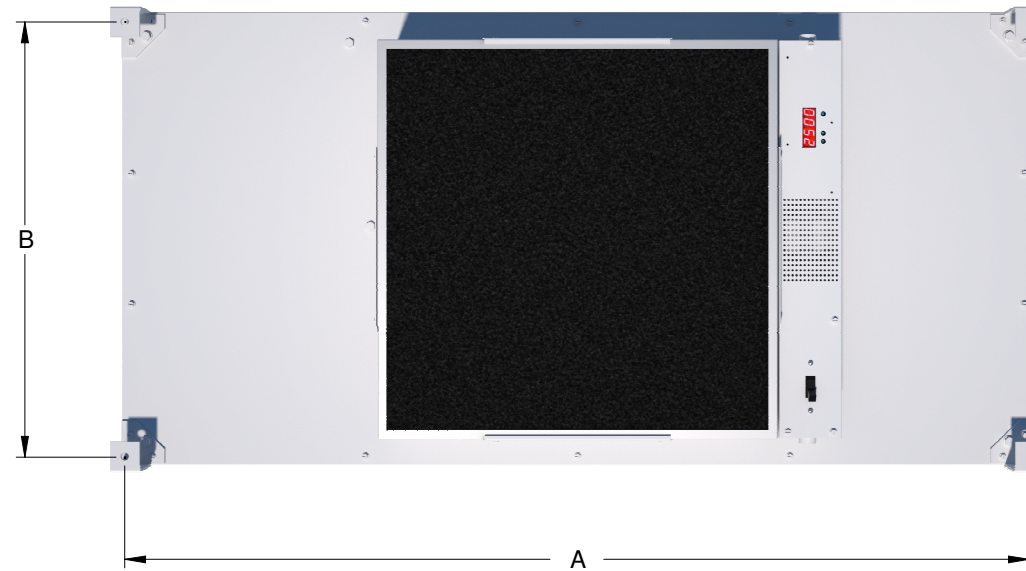
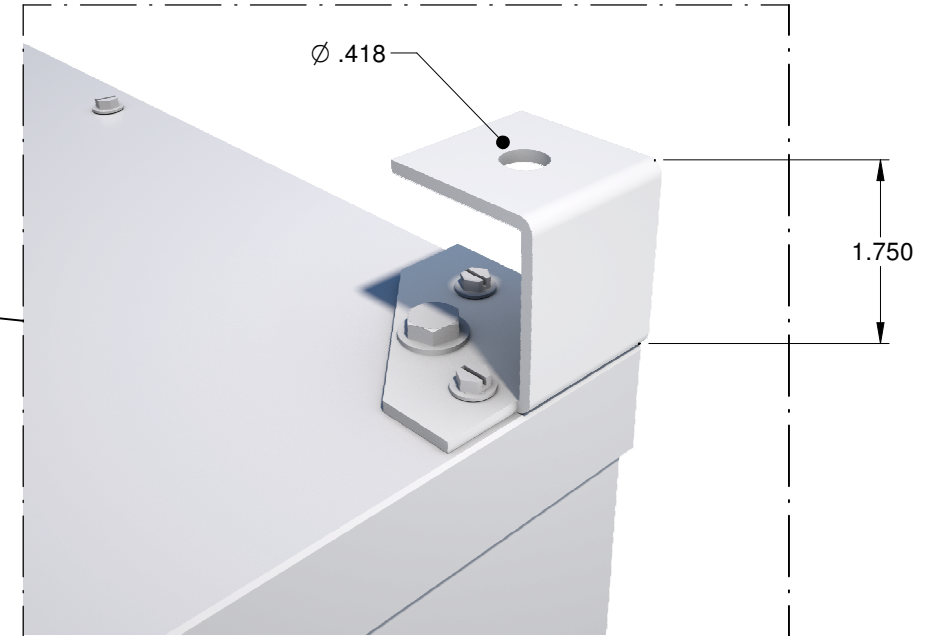
04-18-2023

KROWN

FAN FILTER UNIT WITH ROOM-SIDE REPLACEABLE FILTER OSHPD SEISMIC CERTIFICATION PRE-APPROVAL (OSP-0302-10)



SEISMIC HANGER BRACKET (x 4)



NOMINAL SIZE		IMPERIAL (INCHES)		SI (MM)	
WIDTH	LENGTH	A	B	A	B
24	24	22.375	22.285	568	566
24	36	34.375	22.285	873	566
24	48	46.375	22.285	1178	566

NOTES

- OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL AS PER OSP-0302-10
- AVAILABLE ON SUPPLY MODELS ONLY, WITHOUT ROOM-SIDE CONTROLS
- 12 GA. GALVANIZED STEEL HANGER BRACKET
- MASON SCB=2 BRACKET REQUIRED (QTY 4) SECURED AS PER OSP-0302-10 REPORT
- LATERAL BRACING REQUIRED AS PER OSP-0302-10 REPORT



PROJECT:

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