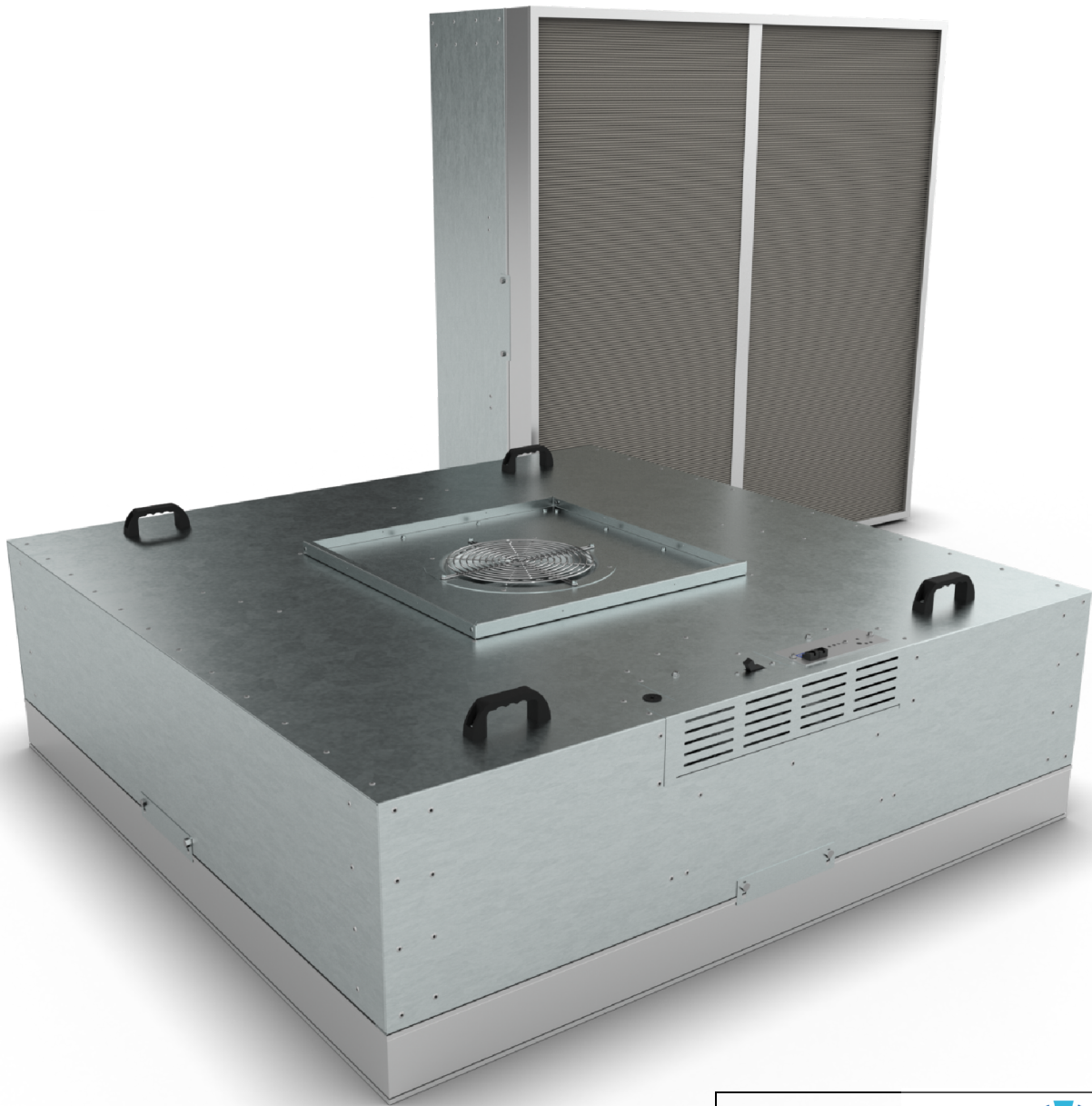
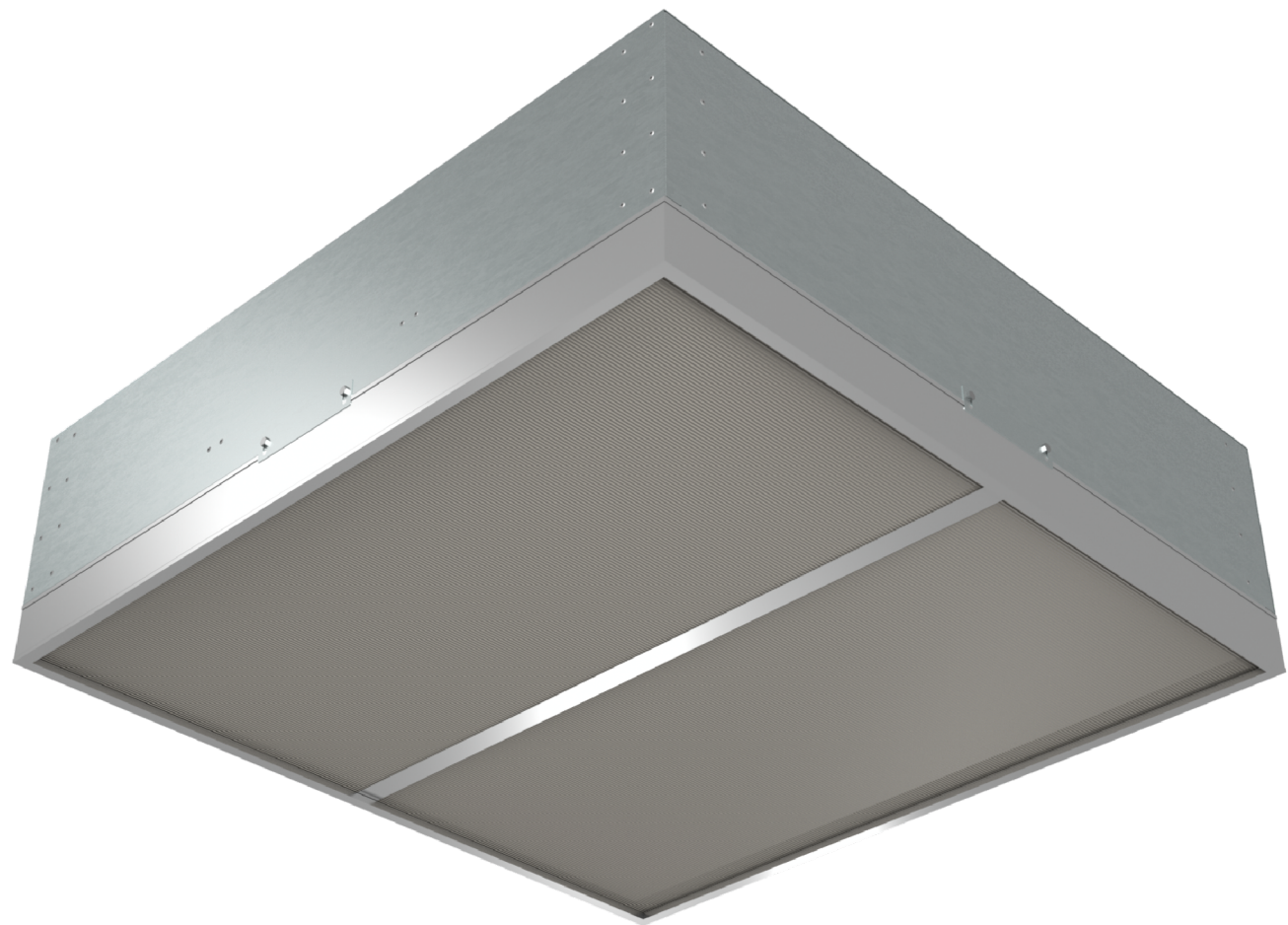


KNIGHT

FAN FILTER UNIT WITH STANDARD FILTER

FEATURES

- PROVIDES HIGH VOLUMES OF HEPA FILTERED AIRFLOW (FOR 99.99% REMOVAL OF PARTICULATE) AT LOW SOUND LEVELS
- INDUSTRY STANDARD MODBUS NETWORKING INTEGRATION FOR UNIT CONTROL
- QUICK AND EASY INSTALLATION



PROJECT:

280978

Revision: 0

5/15/2026

KNIGHT

FAN FILTER UNIT WITH STANDARD FILTER

STANDARD CONSTRUCTION

- GALVANIZED STEEL CONTROL BOX WITH DISCONNECT SWITCH
- GALVANIZED STEEL PLENUM CONSTRUCTION
- TOPSIDE MOTOR/BLOWER ACCESS
- STANDARD BENCHTOP 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 HGMF FRAME. SEE HGMF SUBMITTAL (271137)
- SQUARE INLET COLLAR

PLENUM FINISH

- GALVANIZED STEEL FINISH

INLET SIZES

- ☐ NONE (UNDUCTED)
- ☐ 12" ROUND
- ☐ 14" ROUND
- ☐ 16" ROUND

FILTER

- HEPA – 2.0" – IEST RP CC001 TYPE J

FAN POWER VOLTAGE

- 277V

MOTOR

- EC MOTOR, 50/60 Hz, 1 PHASE

WHEEL

- BACKWARD CURVED

FAN CONTROLLER

- EC MOTOR MODBUS SPEED CONTROLLER

MOTOR PROGRAM

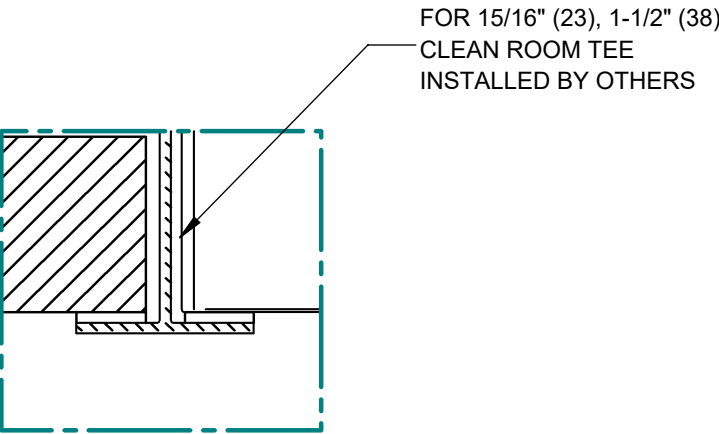
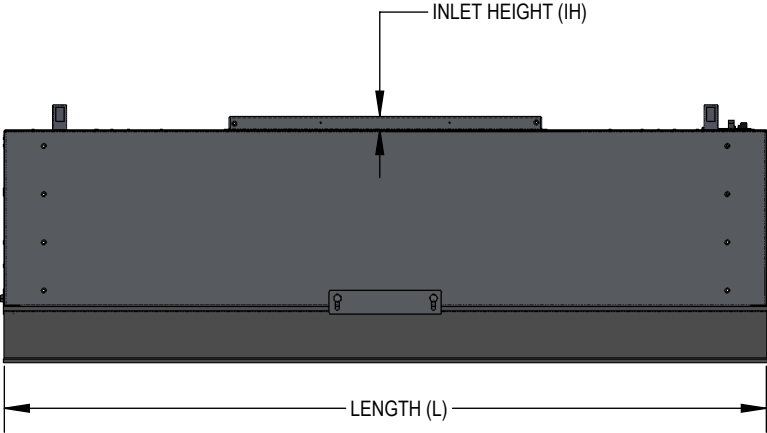
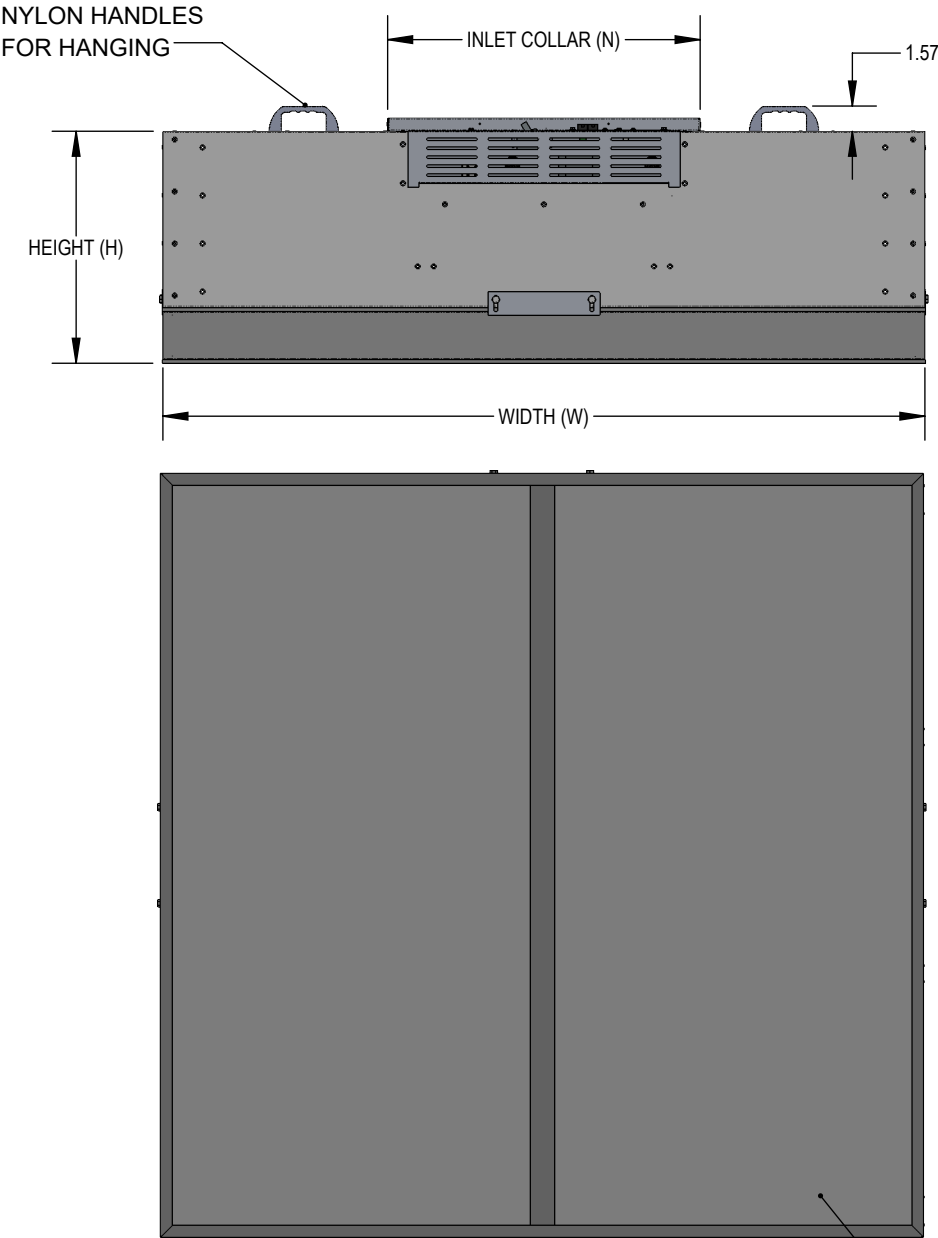
- CONSTANT TORQUE

OPTIONS

- ☐ MERV 8 PRE-FILTER (NON-DUCTED UNITS ONLY)
- ☐ WASHABLE 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)

*WASHABLE PRE-FILTER OPTION (IH) = 1.40
*MERV8 PRE-FILTER OPTION (IH) = 1.70
*DUCTED OPTION WITH PRE-FILTER (IH) = 1.90
*DUCTED OPTION WITHOUT PRE-FILTER (IH) = 0.95
*UNDUCTED (IH) = 0.90

WHEEL TYPE	NOMINAL UNIT SIZE	WIDTH (W)	LENGTH (L)	HEIGHT (H)	INLET COLLAR (N)	FILTER AREA	MAX AMPS FAN (EC) (277V)
BC	48 X 48	47.63	47.63	15.00	19.53	14.3	2.6



PROJECT:

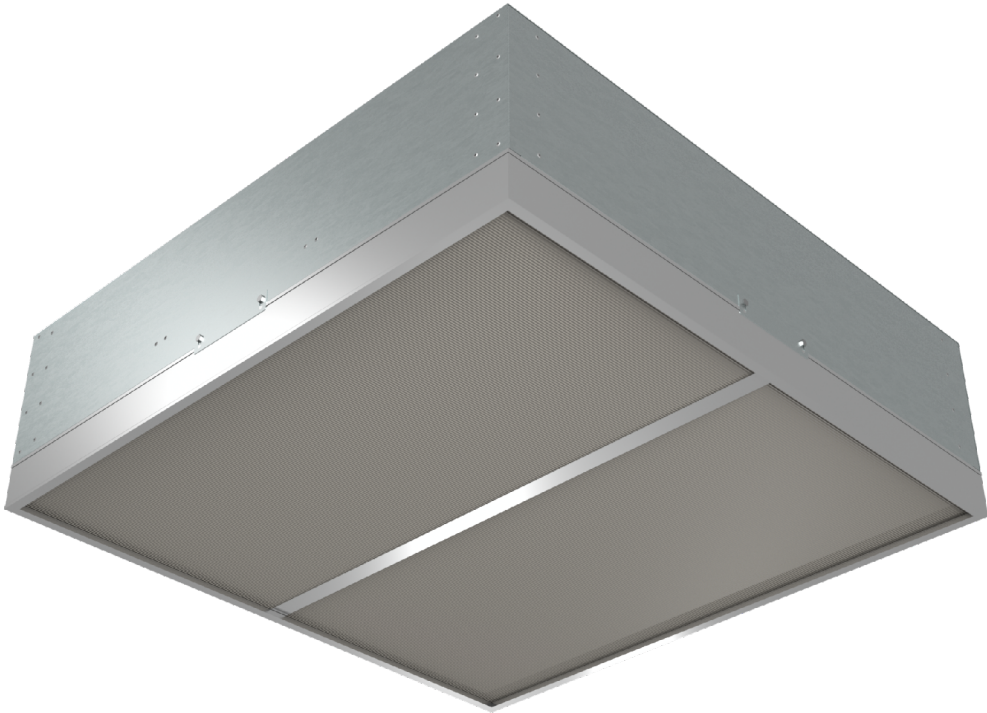
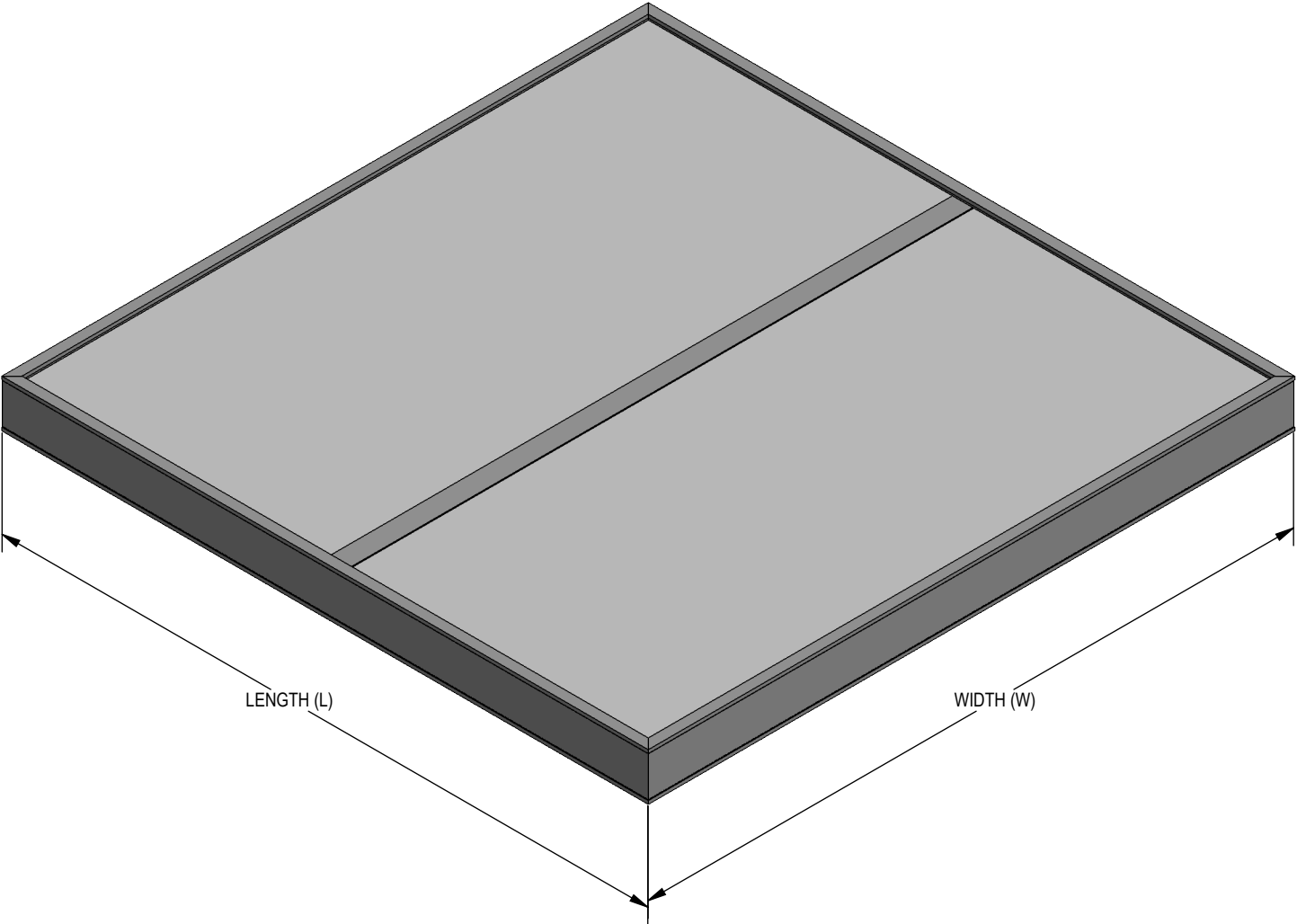
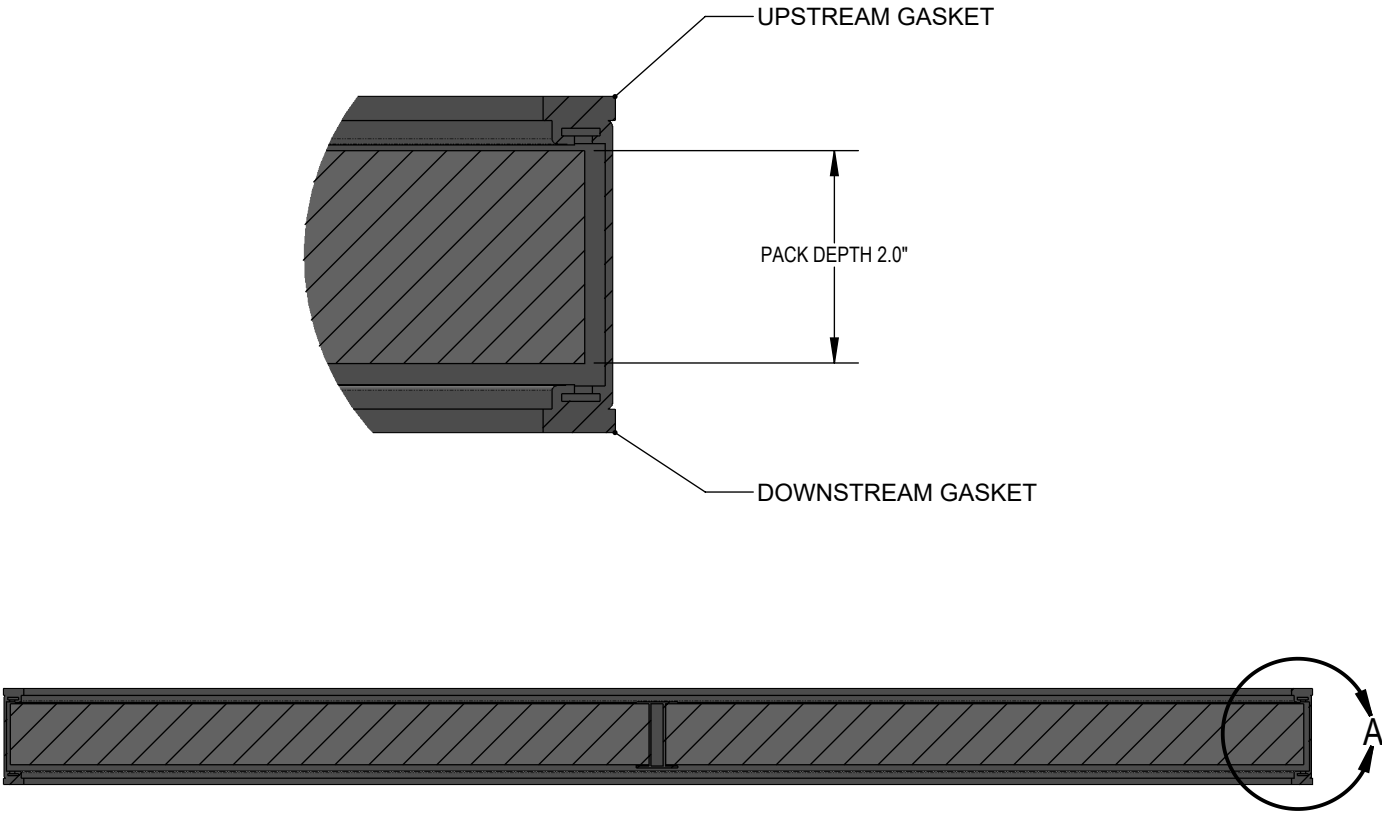
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FAN FILTER UNIT WITH STANDARD FILTER



- NOTES**
- FILTER PLEATS RUN PARALLEL TO THE WIDTH (W) DIMENSION
 - DIMENSIONS L & W TOLERANCES $\pm \frac{1}{16}$ "
 - FILTERS COME WITH GASKETED UPSTREAM FLANGE AND CENTER MULLION WITH STATIC PRESSURE PORTS
 - EXPANDED PAINTED WHITE SCREEN ON THE DOWNSTREAM SIDE
 - FRAME DETAILS
 - MATERIAL ANODIZED EXTRUDED ALUMINUM
 - THICKNESS $\frac{1}{16}$ " (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

NOMINAL UNIT SIZE	WIDTH (W)	LENGTH (L)	HEIGHT (H)
48 X 48	47.625	47.625	3.50

VISIT KEYSTONE CLEAN AIR SOLUTIONS WEBSITE FOR FILTER INSTALLATION GUIDE



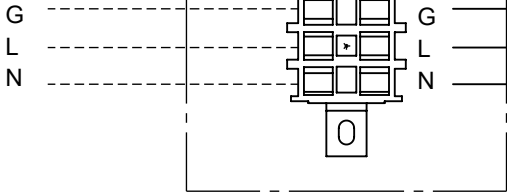
PROJECT:

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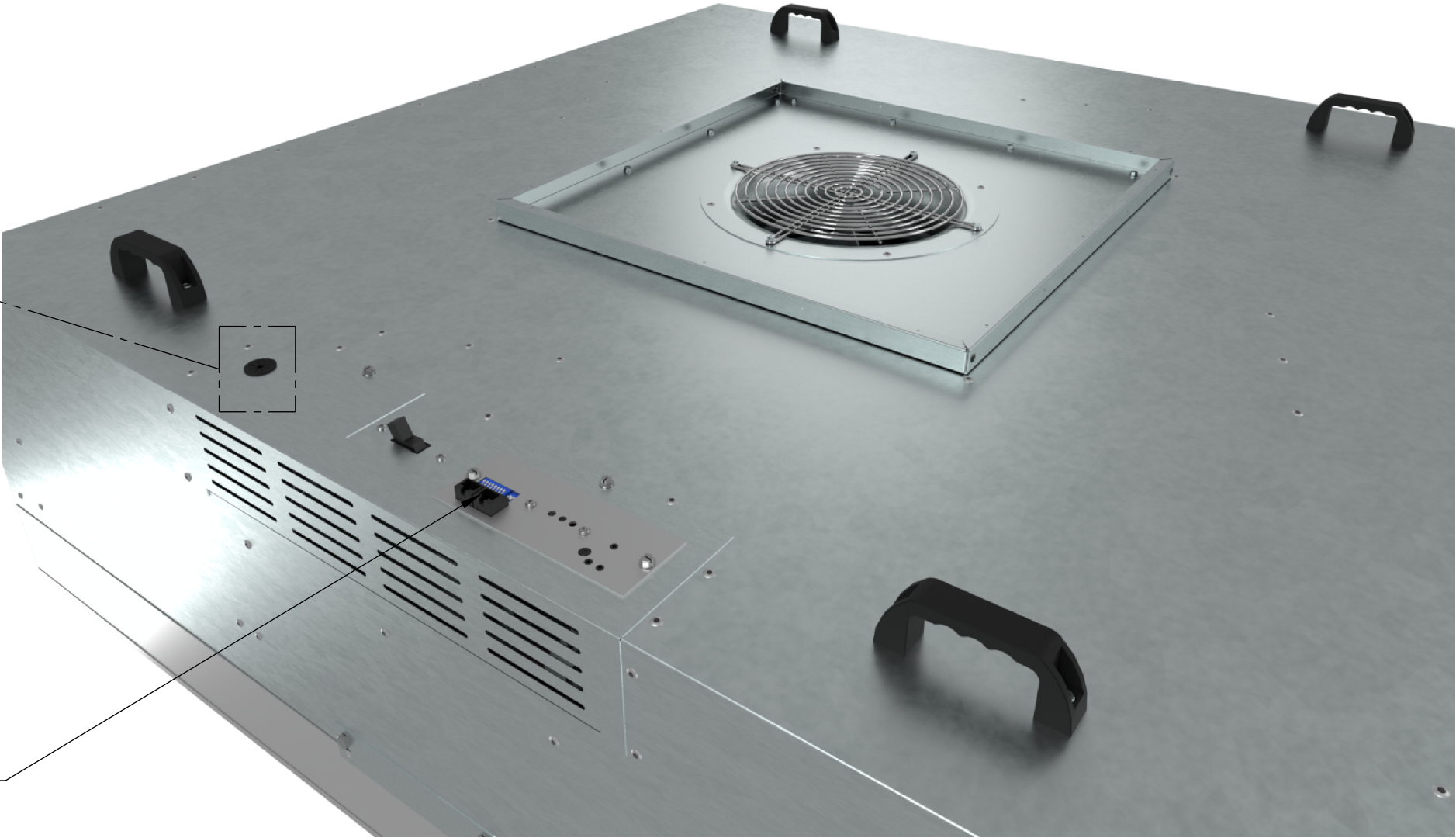
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FAN FILTER UNIT WITH STANDARD FILTER

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

FAN HIGH VOLTAGE
FIELD CONNECTIONS



INDUSTRY STANDARD MODBUS NETWORKING
-RTU PROTOCOL
-RS485 9600,8,n,1



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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