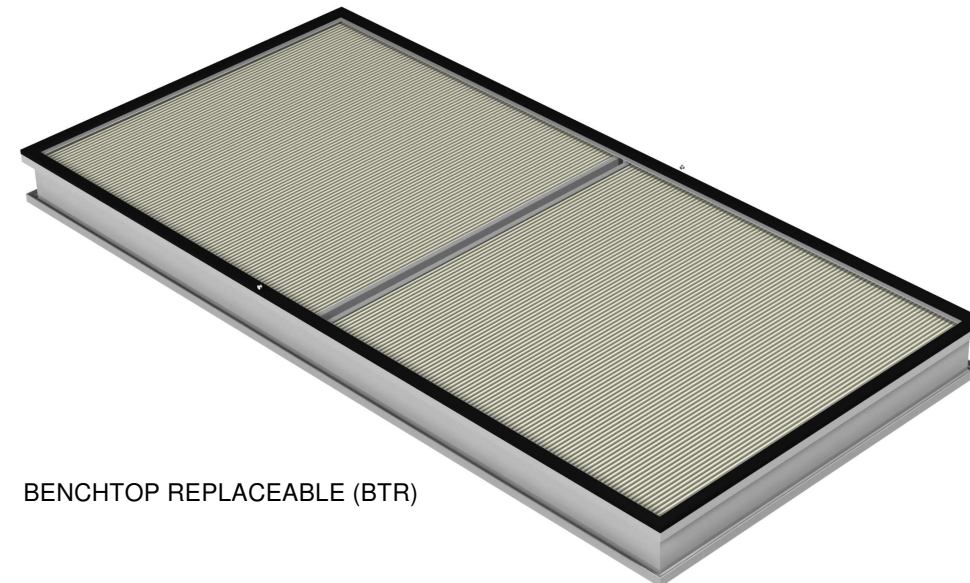# VANGUARD
## REPLACEMENT FILTERS

**FEATURES:**

- HIGH EFFICIENCY REPLACEMENT FILTERS ARE SUITABLE FOR USE IN ALL CRITICAL ENVIRONMENTS FILTERED PRODUCTS

- AVAILABLE IN HEPA OR ULPA EFFICIENCIES

- FILTERS ARE USED WHERE ROOM CLEANLINESS AND CONTAMINENT CONTROL ARE OF THE UTMOST IMPORTANCE INCLUDING CLEANROOMS, LABORATORIES AND PROTECTIVE ENVIRONMENT ISOLATION ROOMS.

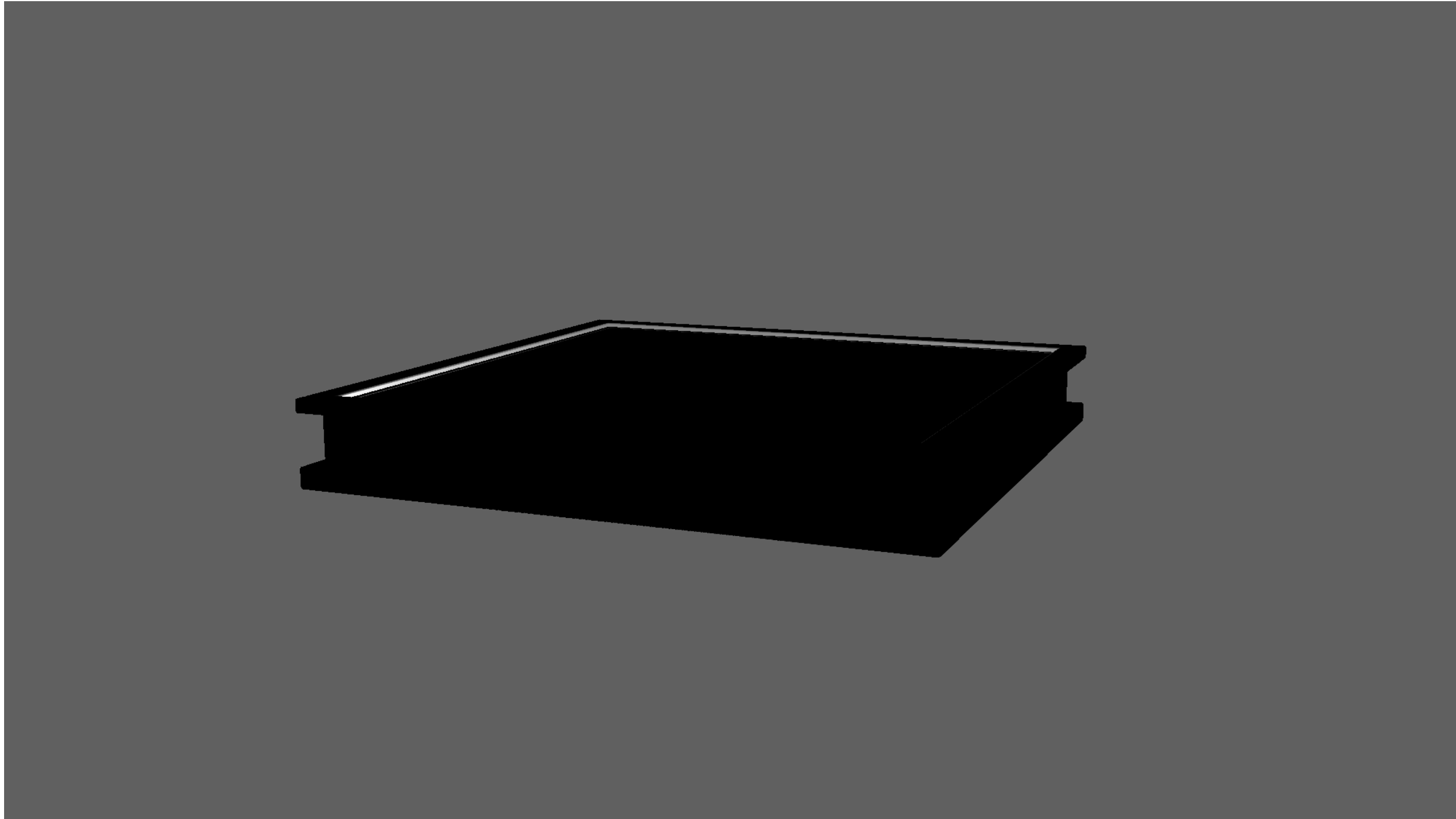ROOM-SIDE REPLACEABLE (RSR)

BENCHTOP REPLACEABLE (BTR)

**KEYSTONE**
Clean Air Solutions

PROJECT:

| 274238 | Revision: 0 | 03-28-2022 |

# VANGUARD 360°

## REPLACEMENT FILTERS
### 3D INTERACTIVE MODEL



**PRODUCT CONFIGURATIONS**
(CLICK BUTTONS TO TOGGLE VIEWS)

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

**KEYSTONE**
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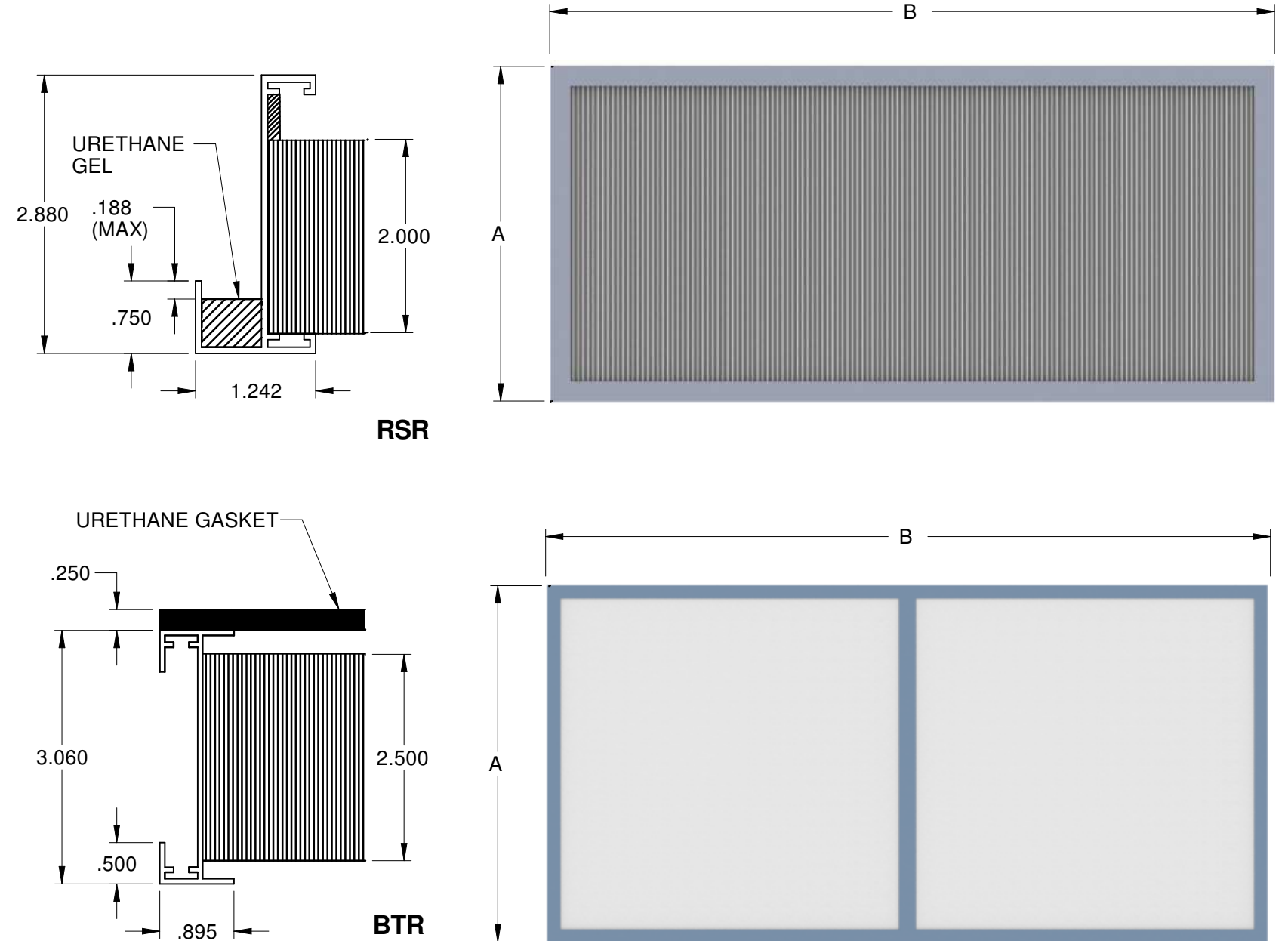| 274238 | Revision: 0 | 03-28-2022 |
|---|---|---|

# VANGUARD

## REPLACEMENT FILTERS
### KROWN FAN FILTER SERIES, ASPIRE LAMINAR FLOW SERIES, ARC RADIAL FLOW SERIES
### CONSTRUCTION DETAILS

| ROOM-SIDE REPLACEABLE (RSR) | | | | |
|---|---|---|---|---|
| MODULE SIZE | ACTUAL UNIT SIZE | FILTER TYPE | ACTUAL FILTER SIZE (A x B) | FILTER PART NUMBER |
| 24 x 24 | 23.625" x 23.625" | HEPA | 20.69" x 20.69" | 042299-020 |
| 24 x 36 | 23.625" x 35.625" | | 20.69" x 32.69" | 042299-021 |
| 24 x 48 | 23.625" x 47.625" | | 20.69" x 44.69" | 042299-022 |
| 12 x 48 | 11.625"x 47.625" | | 8.69" x 44.69" | 042299-028 |
| 600 x 600 mm | 23.247" x 23.247" | | 20.31" x 20.31" | 042299-026 |
| 600 x 1200 mm | 23.247" x 46.869" | | 20.31" x 43.93" | 042299-024 |
| 24 x 24 | 23.625" x 23.625" | ULPA | 20.69" x 20.69" | 042299-017 |
| 24 x 36 | 23.625" x 35.625" | | 20.69" x 32.69" | 042299-018 |
| 24 x 48 | 23.625" x 47.625" | | 20.69" x 44.69" | 042299-019 |
| 12 x 48 | 11.625" x 47.625" | | 8.69" x 44.69" | 042299-027 |
| 600 x 600 mm | 23.247" x 23.247" | | 20.31" x 20.31" | 042299-025 |
| 600 x 1200 mm | 23.247" x 46.869" | | 20.31" x 43.93" | 042299-023 |

| BENCH TOP REPLACEABLE (BTR) | | | | |
|---|---|---|---|---|
| MODULE SIZE | ACTUAL UNIT SIZE | FILTER TYPE | ACTUAL FILTER SIZE (A x B) | FILTER PART NUMBER |
| 24 x 24 | 23.625" x 23.625" | HEPA | 23.63" x 23.63" | 042299-011 |
| 24 x 36 | 23.625" x 35.625" | | 23.63" x 35.63" | 042299-012 |
| 24 x 48 | 23.625" x 47.625" | | 23.63" x 47.63" | 042299-013 |
| 24 x 24 | 23.625" x 23.625" | ULPA | 23.63" x 23.63" | 042299-014 |
| 24 x 36 | 23.625" x 35.625" | | 23.63" x 35.63" | 042299-015 |
| 24 x 48 | 23.625" x 47.625" | | 23.63" x 47.63" | 042299-016 |

**RSR**

URETHANE GEL
2.880
.188 (MAX)
2.000
.750
1.242
B
A

**BTR**

URETHANE GASKET
.250
3.060
2.500
.500
.895
B
A

## CONSTRUCTION:
- FILTER PLEATS RUN PARALLEL TO THE WIDTH (A) DIMENSION
- DIMENSIONS A & B TOLERANCES +/- 1/16"
- RSR FILTERS COME WITH GEL SEAL FILLED CHANNEL
- BTR FILTERS COME WITH GASKETED UPSTREAM FLANGE AND CENTER MULLION WITH STATIC PRESSURE PORTS
- PROTECTIVE SCREEN PAINTED WHITE ON THE DOWNSTREAM SIDE
- FRAME DETAILS:
  - MATERIAL: ANODIZED EXTRUDED ALUMINUM
  - THICKNESS 1/16" (MINIMUM)

## LISTING:
- **UL900** STANDARD FOR SAFETY AIR FILTER UNITS

## TESTING:
- TYPE J - HEPA FILTERS EFFICIENCY AND LEAK TESTED IN ACCORDANCE WITH LATEST IEST-RP-CC001
- TYPE F - ULPA FILTERS EFFICIENCY AND LEAK TESTED IN ACCORDANCE WITH LATEST IES-RP-CC001

## NOTES:
- FILTER PACKAGED SEPERATELY FROM DIFFUSER FOR JOB SITE INSTALLATION BY OTHERS

## KEYSTONE
### Clean Air Solutions

PROJECT:

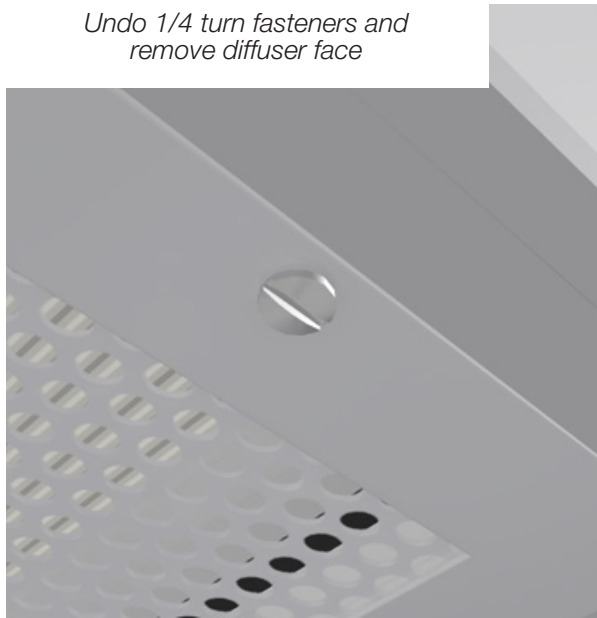| 274238 | Revision: 0 | 03-28-2022 |
|---|---|---|

# VANGUARD
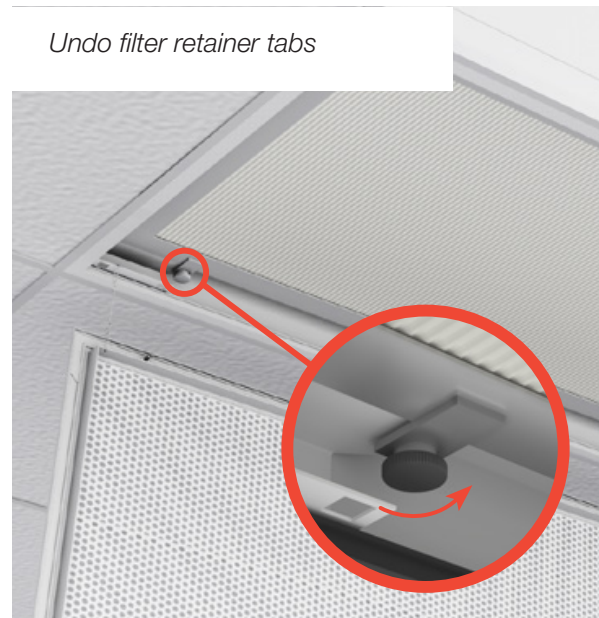## REPLACEMENT FILTERS
## INSTALLATION INSTRUCTIONS

## ROOM-SIDE REPLACEABLE FILTERS:

- GEL-TRACK FROM FILTER WORKS WITH DIFFUSER KNIFE-EDGE TO PROVIDE A LEAK-PROOF SEAL BETWEEN THE FILTER AND HOUSING WHILE ALLOWING FOR TOOL FREE INSTALLATION AND REPLACEMENT FROM THE ROOM-SIDE

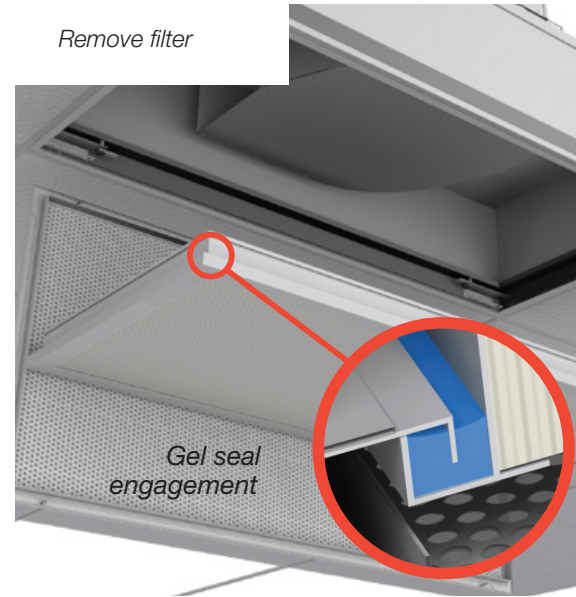- VISIT KEYSTONE CLEAN AIR SOLUTIONS WEBSITE FOR FILTER INSTALLATION GUIDE



*Undo 1/4 turn fasteners and remove diffuser face*



*Undo filter retainer tabs*
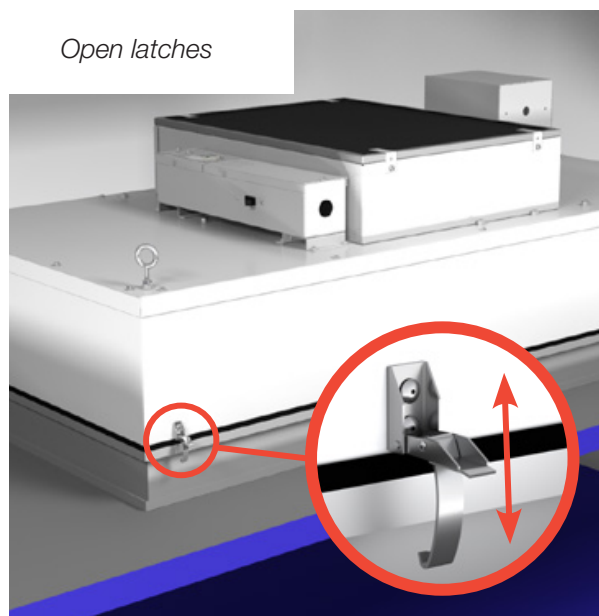


*Remove filter*

*Gel seal engagement*

## BENCHTOP REPLACEABLE FILTERS:

- FILTER REPLACEMENT REQUIRES REMOVAL OF THE UNIT FROM THE CEILING GRID

- ONLY AVAILABLE ON SUPPLY STYLE FAN FILTER UNITS (FFU)

- VISIT KEYSTONE CLEAN AIR SOLUTIONS WEBSITE FOR FILTER INSTALLATION GUIDE



*Remove from ceiling*



*Open latches*



*Remove filter*

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