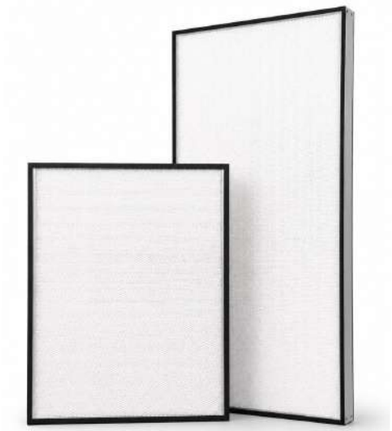
# High/ Ultra Efficiency Mini-Pleated Air Filter

# M-HII/ M-UII



## PRODUCT FEATURES

- Mini-pleated design to reduce operating costs
- Compact design for wide applications and space-saving storage
- Ultra-thin design for space-saving installation

## APPLICATIONS

- Widely used in cleanrooms and other applications with stringent air cleanliness requirements

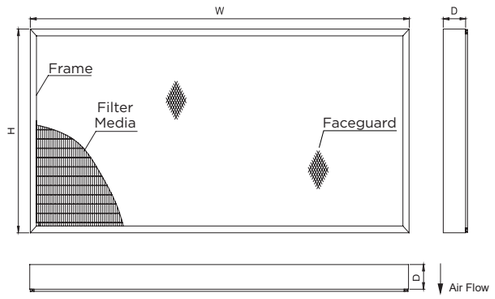
## OPERATING CONDITIONS

- Maximum temperature: 70°C (158°F)

## EFFICIENCY

- 99.95%@MPPS(H13), 99.995%@MPPS(H14)
- 99.9995%@MPPS(U15), 99.99995%@MPPS(U16)

## PRODUCT STRUCTURE DESCRIPTION




## LIST OF MATERIALS

| | |
|---|---|
| Frame | Anodized aluminium extrusion |
| Filter Depth | 50mm / 70mm / 90mm / 110mm |
| Filter material | Ultrafine glass fiber |
| Separator | Hot melt adhesive |
| Sealant | Polyurethane |
| Faceguard | Powder-coated steel faceguard |



## MODEL SPECIFICATION

□II 01 – □□□ – □□□ – □□ – G□ – E□

| | |
|---|---|
| Airtight Gasket | E0-None, E1-Upstream, E2-Both sides, E3-Downstream (neoprene rubber), EP1-Upstream, EP2-Both sides, EP3-Downstream (pharmaceutical industry EPDM material) |
| Faceguard | G0-None, G1-Downstream, G2-Both sides |
| Frame Material | A-Aluminium extrusion |
| Dimensions (mm) | Width x Height x Depth (WxHxD) |
| Efficiency | H13, H14, U15, U16 |
| Manufacturer | MayAir |
| Type | High/ Ultra efficiency mini-pleated air filter |

## PRODUCT SPECIFICATIONS

| Nominal Dimensions W x H x D (Inch) | Actual Dimensions W x H x D (mm) | Faceguard | Airflow | | Face Velocity | | Rated Initial Pressure Drop (Pa / in. w.g.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | ($m^3$/h) | ($ft^3$min) | (m/s) | (FPM) | H13 | H14 | U15 | U16 |
| 23 x 23 x 2 | 570 x 570 x 50 | Both sides | 370 | 1.49 | 0.35 | 69 | 108 / 0.43 | 115 / 0.46 | 135 / 0.54 | 148 / 0.59 |
| 47 x 23 x 2 | 1170 x 570 x 50 | | 780 | 3.13 | 0.35 | 69 | 108 / 0.43 | 115 / 0.46 | 135 / 0.54 | 148 / 0.59 |
| 24 x 24 x 2 | 610 x 610 x 50 | | 420 | 1.69 | 0.35 | 69 | 108 / 0.43 | 115 / 0.46 | 135 / 0.54 | 148 / 0.59 |
| 47 x 47 x 2 | 1170 x 1170 x 50 | | 1,640 | 6.59 | 0.35 | 69 | 108 / 0.43 | 115 / 0.46 | 135 / 0.54 | 148 / 0.59 |
| 23 x 23 x 2.8 | 570 x 570 x 70 | | 470 | 1.89 | 0.45 | 89 | 100 / 0.40 | 110 / 0.44 | 120 / 0.48 | 140 / 0.56 |
| 47 x 23 x 2.8 | 1170 x 570 x 70 | | 1,000 | 4.02 | 0.45 | 89 | 100 / 0.40 | 110 / 0.44 | 120 / 0.48 | 140 / 0.56 |
| 24 x 24 x 2.8 | 610 x 610 x70 | | 550 | 2.21 | 0.45 | 89 | 100 / 0.40 | 110 / 0.44 | 120 / 0.48 | 140 / 0.56 |
| 47 x 47 x 2.8 | 1170 x 1170 x 70 | | 2,100 | 8.44 | 0.45 | 89 | 100 / 0.40 | 110 / 0.44 | 120 / 0.48 | 140 / 0.56 |
| 23 x 23 x 4 | 570 x 570 x 90 | | 470 | 1.89 | 0.45 | 89 | 75 / 0.30 | 80 / 0.32 | 90 / 0.36 | 110 / 0.40 |
| 47 x 23 x 4 | 1170 x 570 x 90 | | 1,000 | 4.02 | 0.45 | 89 | 75 / 0.30 | 80 / 0.32 | 90 / 0.36 | 110 / 0.40 |
| 24 x 24 x 4 | 610 x 610 x 90 | | 550 | 2.21 | 0.45 | 89 | 75 / 0.30 | 80 / 0.32 | 90 / 0.36 | 110 / 0.40 |
| 47 x 47 x 4 | 1170 x 1170 x 90 | | 2,100 | 8.44 | 0.45 | 89 | 75 / 0.30 | 80 / 0.32 | 90 / 0.36 | 110 / 0.40 |
| 23 x 23 x 5 | 570 x 570 x 110 | | 470 | 1.89 | 0.45 | 89 | 60 / 0.24 | 65 / 0.26 | 70 / 0.28 | 85 / 0.34 |
| 47 x 23 x 5 | 1170 x 570 x 110 | | 1,000 | 4.02 | 0.45 | 89 | 60 / 0.24 | 65 / 0.26 | 70 / 0.28 | 85 / 0.34 |
| 24 x 24 x 5 | 610 x 610 x 110 | | 550 | 2.21 | 0.45 | 89 | 60 / 0.24 | 65 / 0.26 | 70 / 0.28 | 85 / 0.34 |
| 47 x 47 x 5 | 1170 x 1170 x 110 | | 2,100 | 8.44 | 0.45 | 89 | 60 / 0.24 | 65 / 0.26 | 70 / 0.28 | 85 / 0.34 |

Remarks:
1. Initial pressure drop tolerance is ±15%;
2. Special dimensions available upon request;
3. MayAir reserves the right to modify product specifications, designs, and technical information or to discontinue any product at any time without prior notice;
4. For the most up-to-date product information, please contact our sales representatives.

## PRODUCT SPECIFICATIONS: LOW PRESSURE DROP SERIES

| Nominal Dimensions W x H x D (Inch) | Actual Dimensions W x H x D (mm) | Faceguard | Airflow | | Face Velocity | | Rated Initial Pressure Drop (Pa / in. w.g.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | ($m^3$/h) | ($ft^3$min) | (m/s) | (FPM) | H13 | H14 | U15 | U16 |
| 23 x 23 x 2 | 570 x 570 x 50 | Both sides | 370 | 1.49 | 0.35 | 69 | 95 / 0.38 | 105 / 0.42 | 125 / 0.50 | 130 / 0.52 |
| 47 x 23 x 2 | 1170 x 570 x 50 | | 780 | 3.13 | 0.35 | 69 | 95 / 0.38 | 105 / 0.42 | 125 / 0.50 | 130 / 0.52 |
| 47 x 47 x 2 | 1170 x 1170 x 50 | | 1,640 | 6.59 | 0.35 | 69 | 95 / 0.38 | 105 / 0.42 | 125 / 0.50 | 130 / 0.52 |
| 23 x 23 x 2.8 | 570 x 570 x 70 | | 470 | 1.89 | 0.45 | 89 | 90 / 0.36 | 100 / 0.40 | 110 / 0.44 | 120 / 0.48 |
| 47 x 23 x 2.8 | 1170 x 570 x 70 | | 1,000 | 4.02 | 0.45 | 89 | 90 / 0.36 | 100 / 0.40 | 110 / 0.44 | 120 / 0.48 |
| 47 x 47 x 2.8 | 1170 x 1170 x 70 | | 2,100 | 8.44 | 0.45 | 89 | 90 / 0.36 | 100 / 0.40 | 110 / 0.44 | 120 / 0.48 |
| 23 x 23 x 4 | 570 x 570 x 90 | | 470 | 1.89 | 0.45 | 89 | 65 / 0.26 | 75 / 0.30 | 80 / 0.32 | 100 / 0.40 |
| 47 x 23 x 4 | 1170 x 570 x 90 | | 1,000 | 4.02 | 0.45 | 89 | 65 / 0.26 | 75 / 0.30 | 80 / 0.32 | 100 / 0.40 |
| 47 x 47 x 4 | 1170 x 1170 x 90 | | 2,100 | 8.44 | 0.45 | 89 | 65 / 0.26 | 75 / 0.30 | 80 / 0.32 | 100 / 0.40 |
| 23 x 23 x 5 | 570 x 570 x 110 | | 470 | 1.89 | 0.45 | 89 | 55 / 0.22 | 60 / 0.24 | 65 / 0.26 | 80 / 0.32 |
| 47 x 23 x 5 | 1170 x 570 x 110 | | 1000 | 4.02 | 0.45 | 89 | 55 / 0.22 | 60 / 0.24 | 65 / 0.26 | 80 / 0.32 |
| 47 x 47 x 5 | 1170 x 1170 x 110 | | 2100 | 8.44 | 0.45 | 89 | 55 / 0.22 | 60 / 0.24 | 65 / 0.26 | 80 / 0.32 |

Remarks:
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