Wafergard® II F-1500 In-line Gas Filters

Superior particulate filtration for ultrapure gas system filtration

Wafergard® II F-1500 in-line gas filters are the filters of choice for ultrapure gas system filtration. These filters have excellent compatibility with all classes of semiconductor gases and offer high-efficiency filtration with optimal flow differential performance.

APPLICATIONS

- Facility entrances
- Bulkheads
- Facility chases

FEATURES & BENEFITS

- Greater than 99.9999999% removal of all particles larger than 0.003 μm diameter
- 316L stainless steel shell with 0.25 μm Ra (10 μin Ra) electropolished interior finish
- Low pressure drop reduces risk of low vapor pressure gas condensation
- Cleanroom-manufactured, welded and tested
- Cleanroom-packaged by vacuum bagging and double-bagging for superior out-of-box cleanliness
- PTFE membranes provide high-efficiency filtration
SPECIFICATIONS

<table>
<thead>
<tr>
<th>Materials</th>
<th>Filter element</th>
<th>Hydrophobic PTFE membrane supported by molded PFA structures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing</td>
<td>Electropolished 316L stainless steel housing</td>
<td></td>
</tr>
</tbody>
</table>

Downstream cleanliness

| Volatiles          | <10 ppb moisture @ ≥5% of rated flow |

Removal rating

| ≥0.003 µm |

Surface finish interior

| ≤10 µin Ra |

Helium leak rating

| Qualified | 2 x 10⁻¹⁰ atm cc/sec |
| Tested    | 1 x 10⁻⁹ atm cc/sec |

Operating conditions

Maximum inlet pressure:
18 bar (250 psig) @ 23°C (73°F)

Maximum forward differential pressure:
7 bar (102 psid) @ 23°C (73°F)

Maximum reverse differential pressure:
2.5 bar (36 psid) at 23°C (73°F)

Maximum operating temperature:
120°C (248°F)

Particle retention

Greater than 99.9999999% (9 LRV) removal of all particles @ 1500 SLPM (referenced at the most penetrating particle size)

Flow rating

See performance data

DIMENSIONS

1/2" Butt Weld Tube WG2F 15H JJ4

295 ±1.5 mm (11.61 ±0.06")

77.2 mm (3.04")

42.7 mm (1.68")

3/4" Butt Weld Tube WG2F 15H JJ6

295 ±1.5 mm (11.61 ±0.06")

77.2 mm (3.04")

63.3 mm (2.49")

3/8" Male Gasket Seal WG2F 15H RR3

225 ±1.5 mm (8.86 ±0.06")

42.7 mm (1.68")

398 ±12 mm (15.68 ±0.08")

74.2 mm (2.92")

74.2 ±0.5 mm (2.92 ±0.02")

3/8" Male Gasket Seal WG2F 15H RR2
### PERFORMANCE DATA

**Wafergard II F1500**

![Graph showing performance data for Wafergard II F1500](image)

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part number</th>
<th>Fitting options</th>
<th>Overall length</th>
</tr>
</thead>
<tbody>
<tr>
<td>WG2F 15H JJ4</td>
<td>Wafergard II F-1500 in-line filter, 1⁄2&quot; butt weld tube</td>
<td>295.0 mm (11.6&quot;)</td>
</tr>
<tr>
<td>WG2F 15H JJ6</td>
<td>Wafergard II F-1500 in-line filter, 3⁄4&quot; butt weld tube</td>
<td>295.0 mm (11.6&quot;)</td>
</tr>
<tr>
<td>WG2F 15H RR3</td>
<td>Wafergard II F-1500 in-line filter, 3⁄8&quot; gasket seal (compatible with VCR® fitting), male inlet/outlet</td>
<td>225.0 mm (8.86&quot;)</td>
</tr>
<tr>
<td>WG2F 15H RR2</td>
<td>Wafergard II F-1500 in-line filter, 3⁄4&quot; gasket seal (compatible with VCR fitting), male inlet/outlet</td>
<td>398 mm (15.68&quot;)</td>
</tr>
</tbody>
</table>

### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the Contact Us link to find the customer service center nearest you.

### TERMS AND CONDITIONS OF SALE

All purchases are subject to Entegris’ Terms and Conditions of Sale. To view and print this information, visit entegris.com and select the Terms & Conditions link in the footer.