Overview

The F300 AutoPod® wafer carrier is a 25-capacity, 300 mm front opening unified pod (FOUP) that provides clean and secure wafer transport, and optimum automation integration for your facility.

Features

- Environmental isolation for next generation devices
- SEMI® standards compliant
- UV filtering (to 500 nm) polycarbonate housing
- Static dissipative STAT-PRO® 3000 carbon fiber filled PEEK™ in areas requiring a path to ground
- Robust wafer retainer ensures repeatable wafer positioning and minimizes particle generation
- Metal-free assembly prevents metallic contamination
- Precise 10 mm wafer spacing with accurate and reliable wafer plane
- Dimensionally stable integral cassette
- Door mechanism reliability exceeding 161,000 cycles
- Maximized water cleaning capability and minimized dry time for reduced downtime
- Kinematic coupling plate
- Configurable A, B, C or D info pads for product segregation
- FIMS compatible
- Auto return door mechanism to keep latch key holes at 0º or 90º to improve equipment interoperability

Specifications

| Overall size:  | Depth         | 344 mm (13.5") |
|               | Width         | 430 mm (16.9") handle to handle |
|               | Height        | 332 mm (13.1")  |
| Wafer spacing:| 10 mm         |
| Weight:        | Without wafers| 4.5 Kg (10 lb)  |
|               | With wafers   | 7.69 Kg (17 lb) |

Material Description

Entegris’ STAT-PRO 3000 material is an advanced, static dissipative blend of polyetheretherketone (PEEK polymer) and carbon fiber. Used in the wafer supports and robotic lifting flange, this material offers:

- Static protection
- Low particle generation
- Abrasion resistance
- Dimensional stability
- Temperature limit: wafer insertion – 240°C
Entegris’ UV polycarbonate material is a blend of polycarbonate and a UV filtration additive. Used in the housing and door, this material offers:

- Low inorganics
- Low particle generation
- Low outgassing
- Dimensional stability
- UV filtering to 500 nm (except clear)
- Proven material of construction

Configuration Options and Accessories

Color Options
- 4 colors for shell and door housing: orange, green, red and clear
- 4 handle colors: black, red, yellow, green
- 2 card holders: white and black

Configuration Options
- 20° and 60° side handles available
- AGV rails
- Standard filter or inert gas purge configuration

Segregation Options
- Configurable info pads (positions A, B, C & D)

Identification Options
- Bar code and alphanumeric character labels
- Laser marked serial number
- RF identification tags with read/write capability
- Card holder (holds 2 sizes)
- Credit card size (ID-1): 86 mm × 54 mm (3.38” × 2.13”)
- Larger card size: 102 mm × 70 mm (4” × 2.75”)

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>FPFAC2A-P2BWSN-NNN</td>
<td>F300, standard – amber</td>
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<tr>
<td>FPFC2C-P2BWSN-NNN</td>
<td>F300, standard – clear</td>
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<td>FPFGC2G-P2BWSN-NNN</td>
<td>F300, standard – green</td>
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<tr>
<td>FPFRC2R-P2BWSN-NNN</td>
<td>F300, standard – red</td>
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</table>

Each FOUP configuration includes the following:
- Polycarbonate shell and door housing
- Matching shell and door colors
- Blank RFID pill installed
- Black 20° handles
- Infopad kit (quantity 4)
- Filter assembly

Accessories

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<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>01-006103</td>
<td>Assembly, breather filter cartridge</td>
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<td>01-020930S</td>
<td>Assembly, purge inlet</td>
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<td>01-020931S</td>
<td>Assembly, purge outlet</td>
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<tr>
<td>01-014182S</td>
<td>Gasket, Gen 2 door</td>
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<td>01-009868</td>
<td>Info pad, removable kit (20 units)</td>
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<tr>
<td>01-024465S</td>
<td>License plate, Snap-on (white)</td>
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<tr>
<td>01-009865</td>
<td>FOUP, filter removal tool</td>
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<td>01-009886-46C02</td>
<td>Key, FIMS door – Entegris logo style</td>
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<tr>
<td>100018AAA</td>
<td>Key, FIMS door – pineapple style</td>
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</tbody>
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For More Information

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

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