

Spectra™ FOUFs

Front opening unified pod platform with superior microenvironment control

The Spectra™ FOUF holds 300 mm wafers safely and securely while they are transported and transferred within the fab through hundreds of sophisticated process steps. Designed not only to address particles but to also minimize and control VOC, oxygen, and relative humidity (RH), our FOUFs provide superior microenvironment control, optimal automation integration, and low cost of ownership.

Hydrophobic materials of construction with clean carbon loading are designed for low moisture and low volatile absorption and desorption. Generous radii in part design and open wash slots in the FOUF door cover eliminate water or moisture traps, enabling effective cleaning and reducing drying cycle times.

Our Spectra FOUF meets all applicable SEMI® standards. The industry-proven door is designed for equipment interoperability and long life. Wafer supports are integral with the shell to give excellent wafer plane performance and reliable wafer access. The top robotic flange and bottom kinematic coupling ensure accurate equipment interfaces.

These advanced FOUFs create a sealed wafer environment that provides static protection, white-light shielding, and a considerable positive impact on device yield.

APPLICATIONS

- FOUF platform that provides clean and secure 300 mm transport and handling
- Automation compatibility provides low cost of ownership



Advanced inert gas diffusion purge further protects wafers

FEATURES & BENEFITS

Industry-proven door design	Provides equipment interoperability and long life
Generous radii in part design and open wash slots in the FOUF door cover	Eliminate water or moisture traps, enabling effective cleaning and reducing drying cycle times
Integral wafer supports	Give excellent wafer plane performance and reliable wafer access
ESD shell option	Provides added wafer protection
Optimized hydrophobic materials of construction	Provide wafer contact and microenvironment control
Sealed wafer environment	Provides static protection, white-light shielding, and offers a considerable positive impact on device yield

SPECIFICATIONS

Dimensions	Width	416 mm (16.4")
	Depth	333 mm (13.1")
	Height	335 mm (13.2")
Weight	Empty	4.2 kg (9.26 lb)
	With wafers	7.3 kg (16.09 lb)
Wafer spacing	10 mm (0.39")	
Capacity	26 wafers	

Materials Of Construction

- Ultrapure polycarbonate or barrier material used in the FOUP shell, door housing, and door panels
- Carbon-filled PEEK or high-temperature barrier material (XT EBM) used in wafer contact areas in the shell, door housing, and door components
- Thermoplastic elastomer material used in the critical door seal
- Entegris moisture barrier material (EBM) available to enable leading-edge wafer processing technology

Configuration Options And Accessories

Shell and Door Color Options

- Amber, red, green, clear, and black (ESD shell only)

Purge Options

- Front/rear standard purge
- Rear advanced diffuser

Segregation Options

- Info pads configurable by customer

Identification Options

- Bar code and alphanumeric character labels
 - Color handle inserts
 - Cardholders
 - RFID tags with read/write capability
-

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.



Corporate Headquarters
129 Concord
Billerica, MA 01821
USA

Customer Service
Tel +1 952 556 4181
Fax +1 952 556 8022
Toll Free 800 394 4083

Entegris®, the Entegris Rings Design®, and other product names are trademarks of Entegris, Inc. as listed on entegris.com/trademarks. All third-party product names, logos, and company names are trademarks or registered trademarks of their respective owners. Use of them does not imply any affiliation, sponsorship, or endorsement by the trademark owner.

©2006-2021 Entegris, Inc. | All rights reserved. | Printed in the USA | 1320-2413ENT-0621