

Apogee™ 300 Bake Plate

With DataStream™ Technology

The Apogee 10 is designed for process and R&D engineers requiring a bake plate for large-area substrate applications, and is capable of handling a maximum size of 300mm round or 14" square substrates.

Serving the Semiconductor Industry Since 1987



BENEFITS

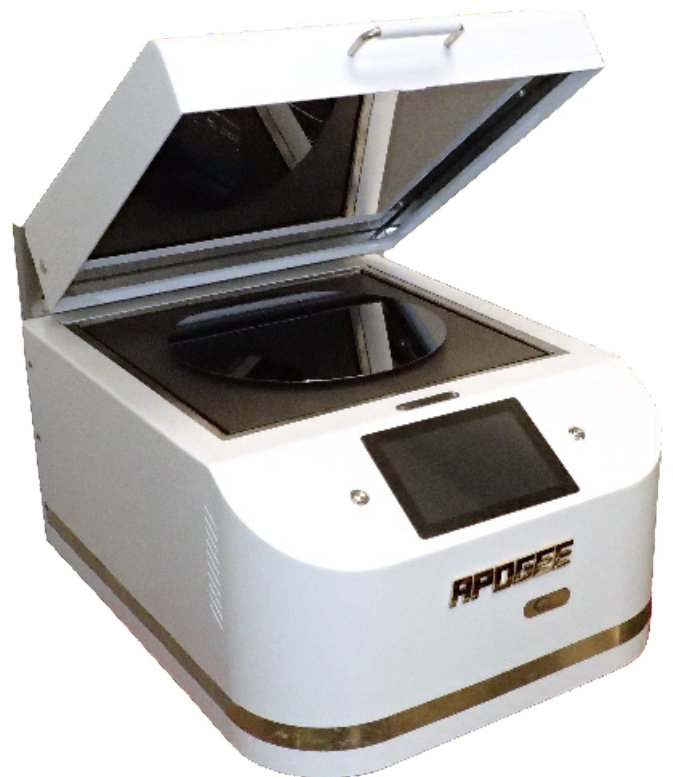
- Compact design for minimized footprint
- Full-color, 7-inch touch screen display
- Durable benchtop design That is also available in a flange/ deck mountable configuration
- Enhanced logging
- Cool touch exhausted hood
- Smart Pins for programmable height control
- Adjustable exhaust gate
- DataStream™ technology

BAKE HOOD DESIGN

- All-stainless-steel construction
- Unique 2-layer design reduces exterior hood temperature
- Exhausted hood for removal of process chemicals
- Optional nitrogen purge for inert bake environment

PROGRAMMABILITY

- Touch screen interface and display
- Full-color alphanumeric-capable graphical user interface (GUI)
- A virtually unlimited number of user-defined recipe program steps
- 0.1-s resolution for step times with a range of 0 to 9,999.9 s/step
- Virtually unlimited recipe storage
- Four automated bake methods: contact, vacuum, proximity, and lift pins
- Bake plate auto-sizing for 100mm, 150mm, 200mm, and 300mm wafers
- Temperature data recording
- Smart Pins programmable in 0.1-mm increments with an overall range of 0 to 19 mm
- Connectivity: USB/Ethernet port for communications for uploading/downloading process parameters with DataStream™ technology



PRECISION

- Substrate sizes: up to 300 mm round; 14 inches (355.6mm) square substrates
- Temperature resolution: 0.1°C
- Temperature range: ambient to 300°C (400°C optional)
- Temperature uniformity: 0.3% across working surface

RELIABILITY

- Exceptional uptime
- 1-year full warranty on parts and labor
- Free remote technical support (phone, email, fax) for the life of the product

UTILITIES

- Voltage ranges: 208–240 VAC, 50/60 Hz
- Power requirements: 3100–4100 watts
- Exhaust port: 2" (50.8mm) OD
- Vacuum: 20 inches Hg (67.7 Pa)
- Exhaust: 5 to 10 cfm (141.6 – 283.2 liters/min)
- N₂ (for bake plate proximity): 35 psi (241.3 Pa)

DIMENSIONS

- 18" H x 18.75" W x 26.25" D
- Machine Weight: 146 lbs. (66.2 kg)
- Shipping Weight: 235 lbs. (106.6 kg)

DATASTREAM™ TECHNOLOGY: CONNECTING THE SEMICONDUCTOR INDUSTRY

DataStream™ technology gives you access to all of your connected Apogee™ manufacturing equipment in one place to track, access, and modify your systems via a web browser. This technology will give manufacturers the ability to process and visualize data in real time and search and export that data into a number of different formats.

Real-Time Process Information

- Constant feedback of process information for monitoring critical process parameters
- Streamlined interface between different tool types
- Visual cues on process status & health

Advanced Recipe Creation

- Seamless switching between basic and advanced recipe creation methods
- Plain-English recipe translation
- Pre-defined process commands
- Unlimited process steps
- Unlimited recipe storage

Environmental Monitoring

- Monitoring of temperature & humidity allows for stricter control of critical processes
- Set preconditions and tolerances for monitored parameters
- On-screen, colored visual cues for deviation from controlled specs

Data Logging & Export

- Export data logs into commonly readable formats for further analysis and process troubleshooting
- Increase process efficiency
- Identify process control deviations
- Analyze multiple processes for best known method (BKM) development

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Effective Date: 4/1/2019