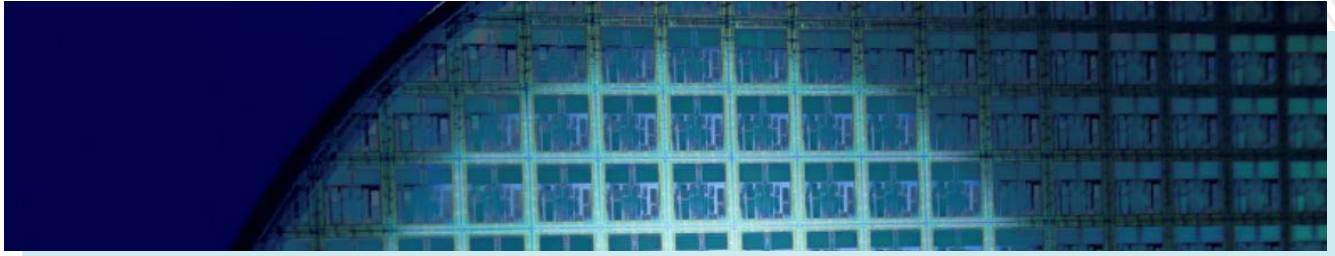


VAPORGUARD® TEMPERATURE CONTROL SYSTEM



WHEN TEMPERATURE IS ABSOLUTELY ESSENTIAL



The VAPORGUARD family of automated temperature control systems is based on a multi-generational history beginning with Schumacher's MDOT, VMDOT and Absolute Temperature Control System (ATCS) used widely in semiconductor since the mid 1980's.

Years of experience goes into each design, ensuring delivery of ultra high-purity (UHP) liquids in a safe and cost-effective manner.

THE NEXT-GENERATION CONTROLLER

The VAPORGUARD® Temperature Control System is the next-generation controller. It provides accurate and stable temperature control for chemicals, and is available in six different models (providing temperature control ranging from 10-115°C.

VAPORGUARD seamlessly replaces other existing temperature controllers. Technology advancements have been implemented to improve transient, step and steady state temperature responses.

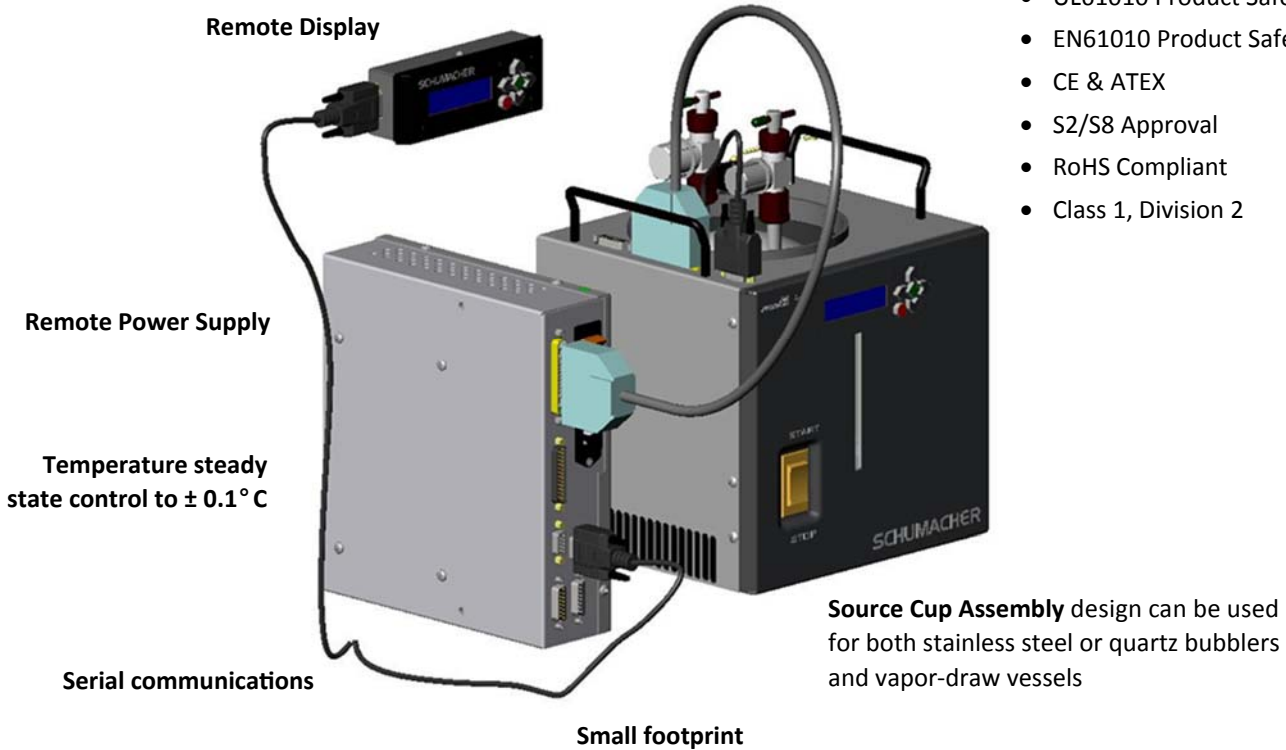


VAPORGUARD TEMPERATURE CONTROL SYSTEM FEATURES:

Modular design allows for easy customization and maintenance

Certifications & Design Compliance:

- UL61010 Product Safety (US)
- EN61010 Product Safety (EU)
- CE & ATEX
- S2/S8 Approval
- RoHS Compliant
- Class 1, Division 2



FABWIDE EXPERIENCE: BCD (200 LITER), LIQUID VMB, AND CHEMGUARD® TO PROCESS TOOL

The CHEMGUARD® and VAPORGUARD® product families are more than just a standalone piece of equipment in your fab. They are designed to interface directly to most OEM process tools and are based on semiconductor experience that comes with multi-generational product offerings.



VAPORGUARD MODELS:

VG300W / VG300N (10°C—20°C) - 300 WATT POWER SUPPLY

VG300W (display on the wide side)

VG300N (display on the narrow side)

VG600W / VG600N (10°C—60°C) - 600 WATT POWER SUPPLY

VG600W (display on the wide side)

VG600N (display on the narrow side)

VG600NHT / VG600N (10°C—115°C) - 600 WATT POWER SUPPLY

VG600WHT (display on the wide side)

VG600NHT (display on the narrow side)

VAPORGUARD ELECTRICAL SPECIFICATIONS

	Input Voltage Range:	Output Power:
VG300:	100-240 VAC @50/60 HZ 300 Watt	Heater: 13.6 VDC @ 4.6 A max. Cooler: 10.5 VDC @ 6.2 A max.
VG600:	100-240 VAC @50/60 HZ 600 Watt	Heater: 22 VDC @ 7 A max. Cooler: 20 VDC @ 12 A max.

RELATED EQUIPMENT

CGARC—Automatic Refill controller for remote fill

CHEMGUARD 100 Series

CHEMGUARD 10 Series

CHEMGUARD BCD—200 liter (55 gallon) Chemical Delivery System

CHEMGUARD LVMB— Liquid Valve Manifold box

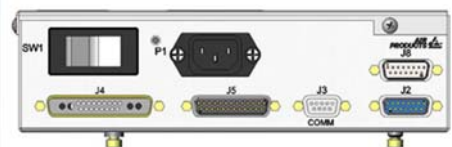
VAPORGUARD Temperature Control System



VG300 / 600 WIDE



VG300 / 600 NARROW



POWER SUPPLY BACK PANEL

**VERSUM MATERIALS
QUARTZ BUBBLER**



**VERSUM MATERIALS
STAINLESS BUBBLER**



While Bubblers or vapor draw vessels are not included in the sale of the VAPORGUARD, these are examples of the types of vessels that would typically be used within the temperature controller



For more information, please contact us at:

VERSUM MATERIALS, INC.
VERSUMMATERIALS.COM

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