The VAPORGUIDE 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
- **Remote Display**
- **Remote Power Supply**
- **Temperature steady state control to ± 0.1°C**
- **Serial communications**
- **Small footprint**
- **Source Cup Assembly** design can be used for both stainless steel or quartz bubblers and vapor-draw vessels

**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

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

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
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.