A Comprehensive Line of Environmental Test Chambers and Rooms

www.tenney.com
Our company is the oldest manufacturer of environmental equipment in the USA. In 1932 when Tenney was founded, environmental testing was in its infancy. Throughout its history Tenney Environmental, Inc. has been a leader in the industry. We are a global engineering-designer, manufacturer, and service provider of standard and custom environmental product testing equipment serving the defense, aerospace, electronics, biotech, medical, pharmaceutical, energy, transportation, communications, and materials-processing industries. With a full line of Tenney standard and custom environmental-temperature-cycling and our Lunaire stability-test chambers and our custom products we can accommodate a comprehensive range of applications and configurations to meet your product testing needs.

Tenney Environmental, Inc. continues to utilize our expertise, experience and resources to support and serve our customers. We look forward to providing you with quality equipment to meet your requirements.

### TJR/TUJR (Reach in Temperature Cycling Chamber)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>POWER</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-68°C to +180°C</td>
<td>120V</td>
<td>1.2 cu.ft.</td>
<td>Watlow F4T</td>
<td>Temperature Only</td>
</tr>
</tbody>
</table>

### T2 (Reach in Temperature Cycling Chamber)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-68°C to +180°C</td>
<td>20% to 95%</td>
<td>2 cu.ft.</td>
<td>Watlow F4T</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>

### Benchmaster/Upright (Reach in Temperature Cycling Chamber)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-68°C to +180°C</td>
<td>20% to 95%</td>
<td>5 cu.ft.</td>
<td>Watlow F4T</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>

### CEO (Reach in Stability Chamber)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°C to +99°C</td>
<td>20% to 95%</td>
<td>8 to 58 cu.ft.</td>
<td>Watlow F4T</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>

### SS (Reach in Stability Chamber)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20°C to +180°C</td>
<td>20% to 95%</td>
<td>10 to 30 cu.ft.</td>
<td>Watlow F4T</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>

### TC (Reach in Temperature Cycling Chamber)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-68°C to +180°C</td>
<td>20% to 95%</td>
<td>10 to 64 cu.ft.</td>
<td>Watlow F4T</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>
C-EVO (Reach in Temperature Cycling Chamber)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-68°C to +180°C</td>
<td>20% to 95%</td>
<td>10 to 64 cu.ft.</td>
<td>Smart One 1.1</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>

FCR (Fast Change Rate Chamber 5C/Min or Greater Transition)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-68°C to +180°C</td>
<td>20% to 95%</td>
<td>8 to 62 cu.ft.</td>
<td>Quattro</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>

Walk In (Panelized and Solid Construction)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-68°C to +200°C</td>
<td>20% to 95%</td>
<td>316 cu.ft. and up</td>
<td>Watlow F4T</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>

Thermal Shock (Vertical or Horizontal, 2 Zone)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>BASKET SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-73°C to +200°C</td>
<td>.22 to 8.32 cu.ft.</td>
<td>Quattro</td>
<td>Temperature Only</td>
</tr>
</tbody>
</table>

Vacuum Drying (Including Solvents)

<table>
<thead>
<tr>
<th>TEMP</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>VACUUM LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient to +200°C</td>
<td>8 to 64 cu.ft.</td>
<td>Quattro</td>
<td>To 1Torr</td>
</tr>
</tbody>
</table>

Vacuum Altitude Testing

<table>
<thead>
<tr>
<th>TEMP</th>
<th>RH</th>
<th>SIZE</th>
<th>CONTROL</th>
<th>ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-68°C to +177°C</td>
<td>20% to 98%</td>
<td>5 to 136 cu.ft.</td>
<td>Quattro</td>
<td>Temp or Temp / Humidity</td>
</tr>
</tbody>
</table>

Space Simulation Chamber

<table>
<thead>
<tr>
<th>TEMP</th>
<th>VACUUM</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>-150°C to +150°C</td>
<td>Up to 1X10^-7 Torr</td>
<td>1ft diameter to 12 ft diameter by any length</td>
</tr>
</tbody>
</table>
The main features of the 7” Windows based PLC Smart 1.1™ are the high resolution graphical touch screen, Smart 1.1™ graphical user interface, 800MHz Cortex A9 central processing unit with graphic processor, 4GB (SD Card) flash storage, capable of storing up to 100 profiles with 100 steps each. Test data retrieval and profile data transfer/sharing is accomplished through a local FTP server via Ethernet connection. Individual PID control loops allow for precise process control.

Other Features of the Smart.1.1™ Controller Include:
- Real-time and historical color graph displays for temperature and humidity as well as set point values
- System can run in Single set point or Programmed modes
- Alarm, Program, and Datalog files can be easily transferred to and from controller via Ethernet connection
- Built-in TCP/IP networking via Ethernet 10/100 communication port
- Ethernet communications are standard. RS485, RS232 and IEE GPIB are all available as options
- Optional Analog signal re-transmit out to peripheral devices such as optional chart recorders, etc.
- Remote access via Smartphone, iPad, etc. with internet connection and VNC phone App’s
- Dynamic expandable zoom
- 850:1 Contrast Ration
- Windows CE 7.0 Operating System
- 16 million display colors
- Projective Capacitive Touch Screen
- TFT LCD Anti-Glare Display

International

- All models available in 50 & 60 Hertz configurations
- CE, CUL, & UL-508A available
- Authorized reps / servicers in most countries

Aftermarket Service

- Installation Supervision
- Start-up & Training
- Turn-key Installation
- Preventative Maintenance
- Temperature Uniformity
- Instrument Calibration
- GAMP Documentation
- Water Quality Analysis

From installation, parts and global support to servicing, testing and yearly maintenance, we’re here to ensure your TPS product achieves its maximum performance.

GAMP Documentation includes FRS, HDS, SDS, FAT, SAT, and IQ/OQ

Instrument Calibration includes A2LA and ISO17025 Calibration Certificates

TPS MAX Program

The TPS MAX Program allows the customer to purchase future service and/or parts without the need to have a purchase order approved and released when parts or service are needed. These funds are available to be used on parts or service in the future, saving you and your company costly down-time. Enrollment also entitles you to the many advantages listed below. Enrollment in the TPS MAX Program requires a minimum purchase of $5,000.00. Amounts above $5,000.00 will be accepted. Funds do not expire.

10% Off:
- Service labor (including: training, installation, preventative maintenance)
- Travel time
- Calibration
- Parts

Also included:
- Free ground shipping on parts
- No overtime charges billed for work/travel performed Monday through Friday
- Mileage is free

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