EFD presents the new ProcessMate 6500 Temperature Control Unit. This simple-to-integrate process controller maintains precise temperature control of a dispensing process chamber within +/- 0.1ºC of the set point from 10ºC to 40ºC. The ProcessMate TCU is suited for manual and automated applications using syringes with air dispensers, valves, and other deposition equipment. Protect your processes against material degradation and eliminate deposit size variation due to fluctuating viscosity.

Features

- **Compact**
  Controls just the process, eliminating the need for machine enclosures and replaces large environmental control systems that waste critical floor space.

- **Cost-effective**
  Operating costs are only pennies per day compared to big, bulky machine enclosures and/or thermal facility controls. Localized temperatures within the ProcessMate TCU are reached within minutes instead of hours.

- **Precise process control**
  Deposition process chamber environment is maintained to within +/-0.1°C.

- **Easy to install, adjust and use**
  Easy to implement on automated, hand-held, bench-top and cartridge dispensing systems. A customized line of static dissipative enclosures is available.

Common Process Problems

- Material Temperature Fluctuation
- Viscosity Change
- Inconsistent Deposit Size
- Premature Material Degradation
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabinet Size</td>
<td>18.9W x 7.1H x 15.9D cm (7.5W x 2.8H x 6.3D&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>1 Kg (2.2 Lb)</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>Selectable 100/120/220 VAC</td>
</tr>
<tr>
<td>Input Frequency</td>
<td>50-60 Hz</td>
</tr>
<tr>
<td>Input Power</td>
<td>14/12VA</td>
</tr>
<tr>
<td>Internal Voltage</td>
<td>24 VDC</td>
</tr>
<tr>
<td>Standard Air Input</td>
<td>40 to 110 psi (2.75 to 7.5 bar)</td>
</tr>
<tr>
<td>Air Usage</td>
<td>55 L/min (2 CFM)</td>
</tr>
<tr>
<td>Temperature Control</td>
<td>+/-0.1°C from 10°C to 40°C (50°F to 104°F)</td>
</tr>
</tbody>
</table>

Ambient Operating Conditions
- Temperature: -10°C to 55°C (14°F to 131°F)
- Humidity: 85% RH at 30°C (86°F) non-condensing
- Height above sea level: 2000 meters (6,562 feet) maximum

Control
Under normal operating temperatures, the ProcessMate TCU can maintain the dispense process chamber environment to +/-0.1°C, from 10°C to 40°C (50°F to 104°F). Normal operating conditions are considered to be ambient air feed between 15°C and 27°C (60°F to 80°F). The ProcessMate 6500 TCU will operate effectively outside of the temperatures; however, the maximum and minimum temperatures the unit can generate will be affected.

Free Process Evaluation
Contact Nordson EFD to configure a dispensing system that meets your specific needs.
- A complimentary process evaluation by experienced fluid dispensing experts
- Samples processed for customer evaluation and approval prior to purchase

*Ambient conditions include the ProcessMate base unit, hoses, process chamber, and incoming compressed air temperature.