

# ProcessMate 6500 Temperature Control Unit

Prevent material degradation and eliminate deposit size variation



Maintains temperature-sensitive dispensing processes within  $\pm 0.1^{\circ}\text{C}$  of a desired set point, across a  $10^{\circ}$  to  $40^{\circ}\text{C}$  range.

**Adhesives   Epoxies   Solder   Paste fluxes**  
**RTV/sealants   Solder resists**

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  $\pm 0.1^{\circ}\text{C}$  of the set point from  $10^{\circ}$  to  $40^{\circ}\text{C}$ .

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  $\pm 0.1^{\circ}\text{C}$ .
- Easy to install, adjust and use — Easy to implement on automated, hand-held, bench-top and cartridge dispensing systems. A customized line of staticdissipative enclosures is available.

## Common Process Problems

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

Part #	Description
7020340	ProcessMate 6500 Temperature Control Unit



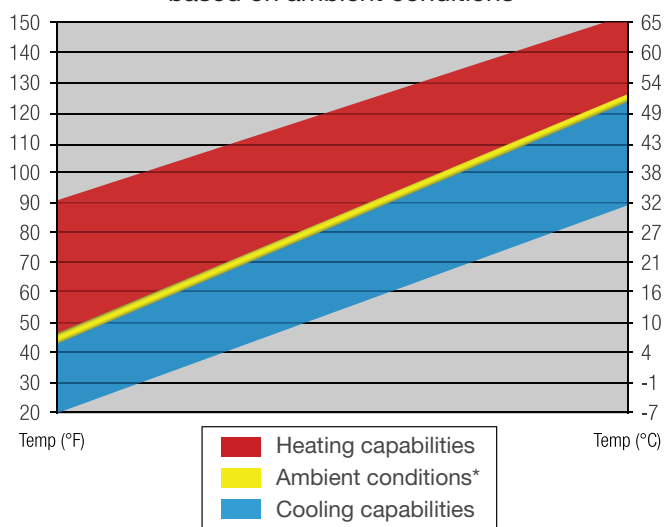
more info



## Specifications

Item	Specification
Cabinet Size	18.9W x 7.1H x 15.9D cm (7.5W x 2.8H x 6.3D")
Weight	1.0 Kg (2.2 Lb)
Input Voltage	Selectable 100/120/220 VAC
Input Frequency	50-60 Hz
Input Power	14/12VA
Internal Voltage	24 VDC
Standard Air Input	2.75 to 7.5 bar (40 to 110 psi)
Air Usage	55 L/min (2 CFM)
Temperature Control	±0.1° C from 10° to 40° C (50° to 104° F)
Ambient Operating Conditions	
Temperature	-10° to 55° C (14° to 131°F)
Humidity	85% RH at 30° C (86° F) non-condensing
Height above sea level	2000 meters (6,562 feet) maximum

Maximum/Minimum Temperature  
based on ambient conditions\*



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

## Control

Under normal operating temperatures, the ProcessMate TCU can maintain the dispense process chamber environment to  $\pm 0.1^{\circ}\text{C}$ , from  $10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  ( $50^{\circ}\text{F}$  to  $104^{\circ}\text{F}$ ). Normal operating conditions are considered to be ambient air feed between  $15^{\circ}\text{C}$  and  $27^{\circ}\text{C}$  ( $60^{\circ}\text{F}$  to  $80^{\circ}\text{F}$ ).

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



EFD

For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to [www.nordsonefd.com](http://www.nordsonefd.com).

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