

EFD® ProcessMate™ 6500 Temperature Control Unit

adhesives
epoxies
solder
paste fluxes
RTV/sealants
solder resists

EFD®
A NORDSON COMPANY



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

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°C to 40°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.

Common Process Problems

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

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 static-dissipative enclosures is available.

Electronic pdf files of EFD manuals are also available at www.efd-inc.com

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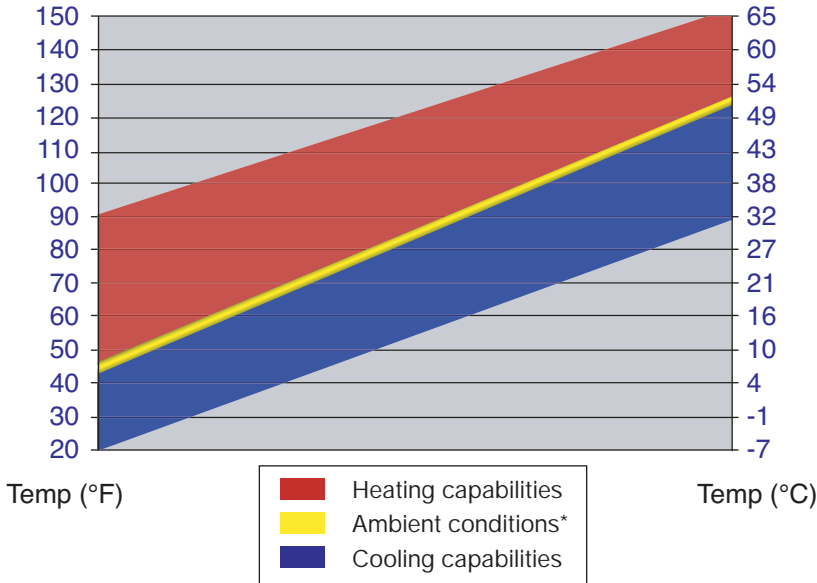
Sales and service of EFD® dispensing systems are available worldwide.

ProcessMate 6500 TCU

Expert technical assistance and high quality standards ensure productive, trouble-free performance. EFD offers a full line of reliable dispensing systems to meet your specific application requirements.



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°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.

Cost to Operate

Assuming $\$0.05/\text{kWh}$ and 0.18kW per cubic foot of compressed air* at maximum output, the ProcessMate 6500 TCU cost to operate is approximately $\$0.14$ per shift.

*As per the US Department of Energy recommended figures. Developed using US DOE computation method and figures as outlined in DOE/GO-102004-1964 (Revised August 2004).

Specifications

Cabinet size: 18.9 W x 7.1 H X 15.9 D cm
(7.5 x 2.8 x 6.3")

Weight: 1.0 kg (2.2 lbs)

Input voltage: Selectable 100/120/220 VAC

Input frequency: 50-60 Hz

Input power: 14/12VA

Internal voltage: 24 VDC

Standard Air Input: 40 to 110 psi
(2.75 to 7.5 bar)

Air usage: 55 L/min (2 CFM)

Temperature control: $\pm 0.1^\circ\text{C}$ from 10°C to 40°C
(50°F to 104°F)

Ambient operating condition limits:

Temperature: -10°C to 55°C (14°F to 131°F)

Humidity: 85% RH at 30°C non-condensing

Height above sea level: 2000 meters max (6,562 feet)



For EFD sales and service in over 30 countries, contact EFD or go to www.efd-inc.com

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