

FoamMelt® 200 Adhesive Applicator



Provides high-volume dispensing of foamed hot melt materials for a variety of bonding, sealing, gluing and gasketing applications.

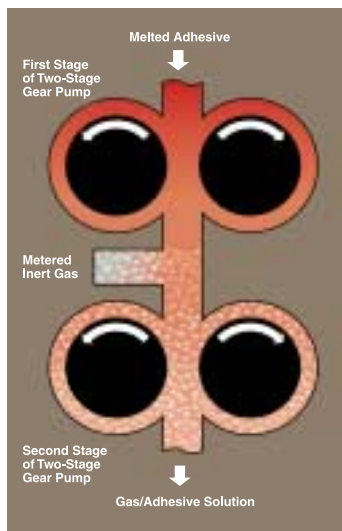


The Nordson FoamMelt 200 Series applicators are the result of continuous improvement on a proven model of success. These enhanced applicators provide advanced controls, improved serviceability and pinpoint temperature control in a system than can melt and deliver up to 75 lbs/hour of low-to-medium viscosity foamed material.

Advanced Application Technology

The Nordson® FoamMelt process dramatically improves the performance of most hot melt adhesives by mixing them with inert gas, creating a homogeneous solution. As the material is dispensed, the gas expands to create a closed-cell foam. The foamed material is applied like the more conventional approaches, but provides the following benefits:

- **Increased open time** produces longer, more useful beads and provides greater flexibility.
- **Faster set time** for increased line speeds and production rates. Labor is reduced and less warehouse space is required for inventory.
- **Volumetric increase** for greater gap filling capabilities.
- **Improved wetting** increases the ability to bond impervious surfaces and enhances application versatility.
- **Lower heat density** reduces heat damage and improves operator safety.
- **Reduced sagging or running** for uniform adhesive thickness.
- **Reduced adhesive consumption** of up to 65 percent.
- **Increased penetration** creates stronger bonds and results in fewer rejects.



Automatic Density Control

The FoamMelt 200 features a simple, repeatable one-step setting for maintaining consistent foamed material density. A density sensor is located in the filter/density controller, which automatically monitors and adjusts the gas/adhesive mix. It is capable of achieving density reduction to within +/-2.5 percent of the predetermined value.



Sophisticated Pump Design

The patented two-stage gear pump used in FoamMelt 200 units is designed to force inert gas into solution with the hot melt adhesive. The special corrosion-resistant components used in the pump provide longer service life and reduced maintenance costs.



Front-Mounted Hydraulic System Controls

The pressure control valve, the filter/density controller and the drain valve are all front mounted to provide easy access during initial start-up, daily operation and periodic servicing. The pressure control valve, which maintains constant hydraulic pressure over a wide range of pressure settings and viscosities, may be quickly removed for cleaning. The filter/density controller and drain valve are also designed to facilitate operation and servicing.

Vista™ Controls Improve Productivity

The FoamMelt 200 unit incorporates the advanced Vista control system, which improves productivity by automating many operator functions. Vista controls offer the following features:

- Superior noise immunity through advanced components and design techniques.
- Fully-compatible with existing Nordson RTD guns and hoses.
- New control design permits customization of most system settings with password protection to minimize unauthorized access. Easy-to-operate control membrane with bright LED displays of actual and setpoint temperatures provides quick verification of all heat zones.
- Standard 7-day clock with manual override allows automatic start-up and shutdown for each day of the week. Reduced-temperature standby mode minimizes adhesive degradation and lowers unit energy consumption during idle periods.
- Programmable temperature alarm bands for each zone monitor and identify potential problems before operation is effected. Other programmable features include over-temperature setpoint, sequential or simultaneous start-up, display of heater proportioning, and Celsius or Fahrenheit display.
- Output contacts for System-Ready, Fault and Warning functions allow automated remote monitoring of system status.
- Advanced diagnostics quickly locate a fault condition to help facilitate servicing.



Features & Benefits

- Enhanced system provides advanced controls, improved serviceability and pinpoint temperature control.
- Utilizes a patented process to improve material performance. The foaming process mixes inert gas with the hot melt material for increased open times and reduced material usage.
- A density sensor located in the filter/density controller automatically monitors and adjusts the gas/adhesive mix.
- The pressure control valve, the filter/density controller and the drain valve are all front mounted to provide easy access for maintenance.
- Advanced Vista control system improves productivity by automating many operator functions.

Technical Specifications

System Type:	Circulating, gear pump
Holding Capacity:	71 lbs (31 kg)
Melt Rate ⁽¹⁾	100 lbs/hr (45.5 kg/hr)
Instantaneous Delivery Rate: ⁽¹⁾⁽²⁾	
Standard Pump:	55 lb/hr (25 kg/hr)
High Output Pump:	75 lb/hr (34 kg/hr)
Independent Temperature Control:	Grid, Reservoir, 6 hoses, 6 guns
Temperature Control Stability:	± 1°F (± 0.5°C)
Temperature Control Method:	PID
Temperature Range:	100° - 400°F (38° - 204°C)
Electrical Service:	220-240 VAC (3Ø without neutral), 50/60 Hz 400 VAC (3Ø with neutral), 50 Hz
Total System Power: ⁽³⁾	240 VAC, 43 Amps 400 VAC, 27 Amps
Viscosity Range:	1,000-40,000 CPS
Gas Supply:	Industrial grade nitrogen or carbon dioxide (30-50 psi)
Dimensions:	
Height:	32 in (81 cm)
Width:	42 in (107 cm)
Depth:	28 in (71 cm)
Weight:	285 lbs (129.5 kg)
Hose Hydraulic Ports:	4 total, 2 input and 2 output

Notes:

1. Actual rates can vary depending on adhesive viscosity and other characteristics.
2. Based on a 50 percent density reduction.
3. Includes applicator and total allowable hoses, guns and auxiliary devices.

Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.

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