

FoamMelt® 200


Adhesive Foam Processor

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

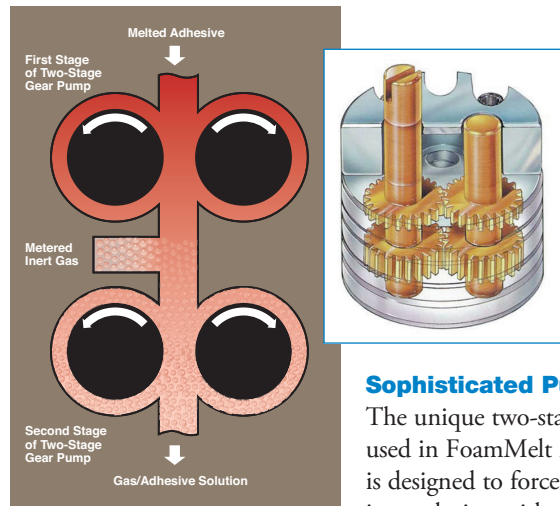
Nordson® FoamMelt processors dramatically improve the performance of most hot melt adhesives by mixing them with inert gas, creating a homogeneous solution. As the material is dispensed, the gas expands to create a closed-cell foam. The foamed material is applied like more conventional approaches, but 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 located in the filter/density controller automatically monitors and adjusts the gas/adhesive mix. It is capable of achieving density reduction within +/-2.5 percent of the predetermined value.



Sophisticated Pump Design

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

Front-Mounted Hydraulic System Controls

The pressure control valve, filter/density controller and drain valve are all front mounted for 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.

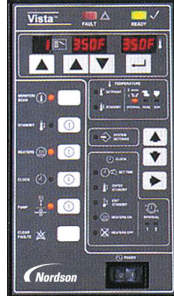


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Vista™ Controls Improve Productivity

The FoamMelt 200 unit incorporates Vista controls, which improve productivity by automating many operator functions. Vista controls offer:

- Superior noise immunity through advanced components and design techniques.
- Fully-compatible with existing Nordson RTD guns and hoses.
- 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. Reduced temperature standby mode minimizes adhesive degradation and lowers unit energy consumption during idle periods.
- Diagnostics quickly locate a fault condition to help facilitate servicing.



- Programmable temperature alarm bands for each zone monitor and identify potential problems before operation is affected. 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.

Features & Benefits

- Enhanced system provides sophisticated control, improved serviceability and pinpoint temperature accuracy.
- Utilizes a unique 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, filter/density controller and drain valve are all front mounted to provide easy access for maintenance.

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
Recommended Gas Supply ⁴	Industrial grade nitrogen
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.
4. The Nordson Nitrogen Generation System provides a clean, uninterrupted source of 95-99.5% pure nitrogen.

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PAL-14-5866
Issued 8/14
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