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.
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.

Features & Benefits
- 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.
- 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Type</td>
<td>Circulating, gear pump</td>
</tr>
<tr>
<td>Holding Capacity</td>
<td>71 lbs (31 kg)</td>
</tr>
<tr>
<td>Melt Rate¹</td>
<td>100 lbs/hr (45.5 kg/hr)</td>
</tr>
<tr>
<td>Instantaneous Delivery Rate¹²</td>
<td>Standard Pump: 55 lb/hr (25 kg/hr)</td>
</tr>
<tr>
<td></td>
<td>High Output Pump: 75 lb/hr (34 kg/hr)</td>
</tr>
<tr>
<td>Independent Temperature Control</td>
<td>Grid, Reservoir, 6 hoses, 6 guns</td>
</tr>
<tr>
<td>Temperature Control Stability</td>
<td>± 1°F (± 0.5°C)</td>
</tr>
<tr>
<td>Temperature Control Method</td>
<td>PID</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>100°- 400°F (38°- 204°C)</td>
</tr>
<tr>
<td>Electrical Service</td>
<td>220-240 VAC (3Ø without neutral), 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>400 VAC (3Ø with neutral), 50 Hz</td>
</tr>
<tr>
<td>Total System Power³</td>
<td>240 VAC, 43 Amps, 400 VAC, 27 Amps</td>
</tr>
<tr>
<td>Viscosity Range</td>
<td>1,000-40,000 CPS</td>
</tr>
<tr>
<td>Recommended Gas Supply⁴</td>
<td>Industrial grade nitrogen</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>32 in (81 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>42 in (107 cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>28 in (71 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>285 lbs (129.5 kg)</td>
</tr>
<tr>
<td>Hose Hydraulic Ports</td>
<td>4 total, 2 input and 2 output</td>
</tr>
</tbody>
</table>

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 device.
4. The Nordson Nitrogen Generation System provides a clean, uninterrupted source of 95-99.5% pure nitrogen.

For more information, speak with your Nordson representative or contact your Nordson regional office.

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