FoamMix® Flex Dispensing System

Improve Production Efficiency

A reactive and non-reactive adhesive and gasketing polymer foaming system that improves material usage and production efficiency.

The Nordson FoamMix Flex dispensing system mixes a variety of reactive and non-reactive materials, either heated or ambient, with inert gas to create a homogeneous mixture.

As the material is dispensed, the gas expands to create a closed-cell foam. The foamed material can be applied in bead form with Nordson® AG900+S applicators or with SureBead® modules and nozzles. These modules can be employed on both pressure-controlled and positive-displacement-controlled applicators.

FoamMix Flex is suited for a wide variety of form-in-place gasketing applications in automotive manufacturing, eMobility, and other product assembly operations.

FoamMix Flex Features

**Key to Line Operation:** The dispensed volume of mixed material follows the production line or robot speed proportionally. This is achieved with a highly responsive Servo Motor drive system in the Pro-Meter® VDK module of the FoamMix Flex system. It provides an optimum volume of mixed material is delivered to the applicator, allowing the system to respond quickly to production line or robot speed changes.

**Automatic Density Control:** The automatic control system utilizes multiple sensors to monitor gas ratio. If a change is detected, the system automatically responds, rapidly and accurately, ensuring that the density of the mix remains consistent throughout the range of speeds for the production line or robot.

**Intuitive Controller HMI:** The PLC-based controller for the FoamMix Flex displays a system map and the master controls on the home screen, which allows for a quick scan of important performance indicators and system-wide warnings. The controller features intuitive navigation from the home screen to individual components and warning details.

**Robust Design:** The patent-pending mixer is designed with ease of maintenance and service in mind, with a low number of service parts and moving components.

**Configurable for variety of materials**
- Hot Melt Adhesives
- RTV Silicones
- Urethanes

**Configurable for variety of temperatures**
- Ambient
- Temperature-conditioned
- Heated
# FoamMix Flex Dispensing System

## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holding Capacity:</td>
<td>N/A</td>
</tr>
<tr>
<td>Melt Rate:</td>
<td>N/A</td>
</tr>
<tr>
<td>Delivery Rate:</td>
<td>35 kg/hr (77 lbs/hr)</td>
</tr>
<tr>
<td>Density Reduction (^1):</td>
<td>&lt; or = 50%</td>
</tr>
<tr>
<td>Viscosity Range (^2):</td>
<td>1000 – 30,000 cps</td>
</tr>
<tr>
<td>Gas Supply:</td>
<td>Industrial Grade Nitrogen</td>
</tr>
<tr>
<td>Minimum Pressure:</td>
<td>70 bar (1000 psi)</td>
</tr>
<tr>
<td>Dew Point:</td>
<td>-94°F (-70°C) for moisture reactive materials, &lt; 2 ppm water</td>
</tr>
<tr>
<td>Air Supply:</td>
<td>Clean dry compressed air 6 bar (90 psig max)</td>
</tr>
<tr>
<td>Temperature Range:</td>
<td>80°F – 450°F</td>
</tr>
<tr>
<td>Hose outlets:</td>
<td>1</td>
</tr>
<tr>
<td>Electrical Service - Heaters:</td>
<td>Ambient Systems – no heaters</td>
</tr>
<tr>
<td>Electrical Service - Motor/Controls:</td>
<td>240VAC Single Phase 50/60 Hz 3200 Watts</td>
</tr>
<tr>
<td>Dimensions (LxWxH):</td>
<td>660 mm x 230 mm x 400 mm (26 in x 9 in x 15.75 in)</td>
</tr>
<tr>
<td>Weight (empty):</td>
<td>27 kg (60 lbs)</td>
</tr>
</tbody>
</table>

**Notes:**

\(^1\) Actual rates can vary depending on adhesive viscosity and other characteristics

\(^2\) Depends on required delivery rates and desired foam density

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

**United States**  
Duluth, Georgia  
(800) 683-2314 Phone  
(866) 667-3329 Fax

**Canada**  
Markham, Ontario  
(800) 463-3200 Phone  
(905) 475-8821 Fax

**Europe**  
Erkrath, Germany  
(49) 211-9205-0 Phone  
(49) 211-254658 Fax

**Japan**  
Tokyo, Japan  
(81) 3-5762-2700 Phone  
(81) 3-5762-2701 Fax

**Asia/Australia/Latin America**  
Amherst, Ohio  
(440) 985-4797 Phone  
(440) 985-1096 Fax

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