

Series 3900 Applicators

Nordson®



Nordson® offers a high-volume hot melt system that can be uniquely tailored to meet application requirements.

Nordson Series 3900 Applicators provide unmatched flexibility and performance in high-volume hot melt equipment. Units can be supplied with an A.C. or a D.C. driven gear pump, a forward-flush or reverse-flush filter, and either of two highly innovative

MicroSet™ Control Systems. Series 3900 Applicators can also be equipped with a grid/reservoir melter and warm hopper or with a tank/hopper that incorporates special fins. The holding capacity (up to 85 lb), melt rate (up to 75 lb/hr) and delivery rate (up to 108 lb/hr) of Series 3900 units make them ideal for high-volume applications.

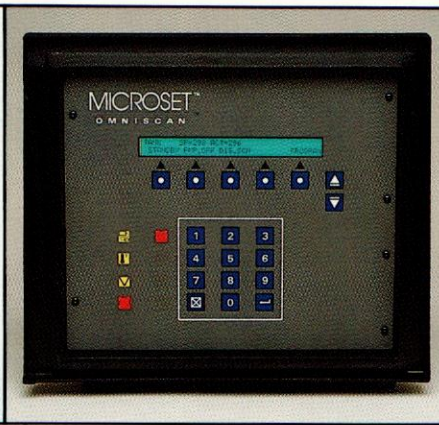
Control system selections include the advanced MultiScan™ Control System or the state-of-the-art OmniScan™ Control System, which is menu-driven. Both are modular in design and microprocessor based. Series 3900 Applicators can be further customized with a wide variety of useful options.

Features Of All Units

- Selection of major system components, including manifold, drive, filter, melter, hopper, pump, and control system
- System-ready delay (with parent-machine interlock) for pump protection
- Sequential startup for reduced component stress
- Forty-five degree manifold design for easy hose routing
- Overtemperature protection
- Contacts for remote indication of fault and ready conditions
- Precise RTD temperature sensing
- Teflon-coated surfaces for reduced char buildup

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The MicroSet MultiScan Control System can accommodate up to three hose-and-gun modules, each capable of controlling two hoses and two guns. Modules with special features, such as digital display and temperature setback, are also available.

With Menu-driven programming, the MicroSet OmniScan Control System is easy to set up and operate. All menus, options, and user selections are displayed on the control panel's two-line by forty-character display. Text can be displayed in a variety of languages.

The optional reverse-flush filter available on 3900 units is highly effective in removing char and foreign material from the filter screen. Both maintenance time and downtime are reduced with the reverse-flush filter.

- Manifold heat exchanger for better temperature control
- Prepackaged Uptime™ parts availability
- Compatibility with existing Nordson RTD hoses and guns
- Patented reverse-flush filter for effective system cleaning (optional)
- Key-to-line operation (optional)
- Unique Motor and Pressure Control system for uniform output (optional)

Features of MultiScan Control

- Accurate proportional/derivative control of reservoir and grid temperature
- Modular design
- Microprocessor-based diagnostics
- Temperature setback (optional)
- Digital display and temperature monitoring (optional)
- Input/output board (optional)

Features Of OmniScan Control

- Menu-driven programming, tactile membrane keypad, and two-line by forty-character display
- Temperature setback
- Proportional/integral/derivative temperature control with fourteen channels, channel grouping flexibility, extended temperature range, and adjustable high/low alarm settings
- Comprehensive self-diagnostics
- Multi-language text display
- Two levels of warnings with user-selectable time delay
- Plug-in option boards
- User-definable channel designations
- Two-level password protection
- Bi-directional RS-232 communications (optional)

Specifications

Type of System: Gear pump with internally circulating manifold

Tank Capacity¹: up to 85 lb (38.6 kg)

System Melt Rate²
Up to 75 lb/hr (34.0 kg/hr)

Maximum Pumping Rate³
Up to 108 lb/hr (49.0 kg/hr)

Temperature Control Channels
MultiScan: up to 14 channels
OmniScan: 14 channels

Temperature Range
MultiScan: 160°F-450°F (70°C-230°C)
OmniScan: 125°F-450°F (50°C-230°C)

Temperature Control Stability
±1°F (±0.5°C)

Electrical Service
200-240 VAC, 50/60 Hz, 3 ø
380-415Y/220-240 VAC, 50 Hz, 3 ø

Maximum System Power Consumption @ 240 VAC
9,420 watts (26.2 amps) w/2 hoses/guns
11,050 watts (32.1 amps) w/4 hoses/guns
13,230 watts (33.4 amps) w/6 hoses/guns

Viscosity Range
1000 to 30,000 centipoise @ rated outputs

Weight: 220 lb (100 kg)

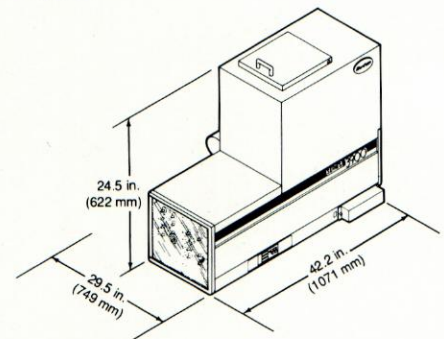
Hose Ports: up to 6

Dimensions

Note 1: Capacity of alternate hopper is 50 lb. (22.7 kg).

Note 2: Measured using hoses and guns and an adhesive with a specific heat of 0.77 BTU/lb-°F (cal/g-°C) at 247°F (119°C).

Note 3: Depends upon type of pump selected. Based upon the use of an adhesive with a viscosity of 30,000 centipoise.



Dimensions shown are for D.C. gear pump units with 50 lb. hopper. Units with 85 lb. hopper are 40.0 in. (1016 mm) high. Units with A.C. drive have a length of 37.0 in. (940 mm) and a depth of 13.5 in. (343 mm).



Guns, hoses and selected components†

†This service not available in all countries.



Nordson Corporation
350 Research Court
Technology Park/Atlanta
Norcross, Georgia 30092
Toll Free (800) 241-8777