

Series 3100 and 3400 Applicators



Compact hot melt systems provide application flexibility with a wide range of configuration choices.

With modular design and highly versatile control systems, Nordson® Series 3000 Applicators can be uniquely configured to meet nearly any requirement. The 3100 and 3400 Applicators can be equipped with any one of three control systems: the streamlined MicroSet® UniScan® Control which employs shared setpoints; the state-of-the-art MicroSet® Multi Scan® Control, which provides individual setpoints for each heated component and microprocessor-based diagnostics; and the MicroSet® OmniScan® Control (3400 units), which features PID temperature control and menu-driven programming via a membrane keypad.

Series 3100 and 3400 Applicators can be further customized with the selection of other special features:

- Various optional piston or gear pumps, and drive combinations.
- Temperature setback (units with Multi Scan or OmniScan Control Systems).
- Digital display and temperature band monitoring capability (units with MultiScan or OmniScan Control Systems).
- Low-level indicator (3400 units).
- Input/output board for remote indication and operation of key conditions and features (units with Multi Scan or OmniScan Control Systems).

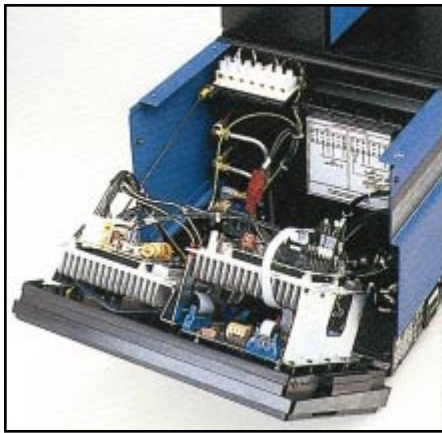
Features of All Units

In addition, a wide variety of beneficial features are standard on all Series 3000 Applicators:

- Selection of major system components, including manifold, drive, filter; pump and control system.

- Programmed sequential startup for reduced component stress.
- System-ready delay (with parent machine interlock) for preventing premature startup.
- Forty-five degree manifold face for easier hose routing.
- Overtemperature protection.
- Contacts for remote indication of fault and ready conditions.
- Precise resistance temperature detector (RTD) temperature sensing.
- Teflon® coated tank for reduced char buildup.
- Prepackaged Uptime® parts availability.
- Compatibility with existing Nordson RTD hoses and guns.
- Electrical quick-disconnects for easy installation and maintenance.
- Cast-in heaters for increased service life, and five-year tank warranty.
- Compliance with major approval codes worldwide.

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The electrical cabinet is designed to provide maximum access to electrical components for ease of service and maintenance.



The simplified UniScan control uses quick-and-easy shared reference setpoints. The hose channel can be set to either the tank or gun temperature setting.



A complete line of hoses and guns is available to meet most requirements. Special water-wash guns and hoses are available for Series 3000 Applicators.

Specifications

Type of System:

Non-circulating (piston pump)
Internally circulating (gear pump)

Tank Capacity/Tank Volume:

Series 3100: 8 lb (3.6 kg)/
230 in³ (3.7 L)
Series 3400: 12 lb (5.4 kg)/
340 in³ (5.6 L)

System Melt Rate:¹

Series 3100: 8 lb/hr (3.6 kg/hr)
Series 3400: 15 lb/hr (6.8 kg/hr)

Maximum Pumping Rate:²

Piston Pumps: up to 72 lb/hr
(32.7 kg/hr)
AC Gear Pumps: up to 54 lb/hr
(24.5 kg/hr)
DC Gear Pumps: up to 108 lb/hr
(49.1 kg/hr)

Temperature Range:

UniScan Control: 220-400°F
(105-205°C)
MultiScan Control: 160-450°F
(70-230°C)
OmniScan Control: 100-450°F
(38-230°C)

Temperature Control Stability:

±1°F (0.5°C)

Ambient Temperature Range:

32-120°F (0-50°C)

Electrical Service:

200-240 VAC, 50/60 Hz, 1Ø or 3Ø
230/400 VAC, 50 Hz, 3Ø

Maximum Working Hydraulic Pressure (90 psi/621 kPa Air):

1260 psi (8.7 MPa) - 14:1 piston pump
1200 psi (8.3 MPa) - gear pump

Maximum System Power Capacity @ 230 VAC:³

3100 with piston pump (1Ø or 3Ø)
3723 watts (16 amps), 2 hoses/guns
5723 watts (25 amps), 4 hoses/guns

3100 with gear pump-AC (1Ø or 3Ø)
4298 watts (19 amps), 2 hoses/guns
6298 watts (27 amps), 4 hoses/guns

3400 with piston pump (1Ø or 3Ø)
4023 watts (17 amps), 2 hoses/guns
6023 watts (26 amps), 4 hoses/guns

3400 with gear pump-AC drive
4598 watts (20 amps), 2 hoses/guns
(1Ø or 3Ø)
6098 watts (27 amps), 4 hoses/guns
(1Ø)

6598 watts (25 amps), 4 hoses/guns
(3Ø)

3400 with gear pump-DC drive

4848 watts (21 amps), 2 hoses/guns
(1Ø or 3Ø)
6148 watts (27 amps), 4 hoses/guns
(1Ø)
6848 watts (26 amps), 4 hoses/guns
(3Ø)

Weight:

Series 3100: 72 lb (33 kg) piston
97 lb (44 kg) gear-AC

Series 3400: 83 lb (38 kg) piston
108 lb (49 kg) gear-AC
180 lb (82 kg) gear-DC

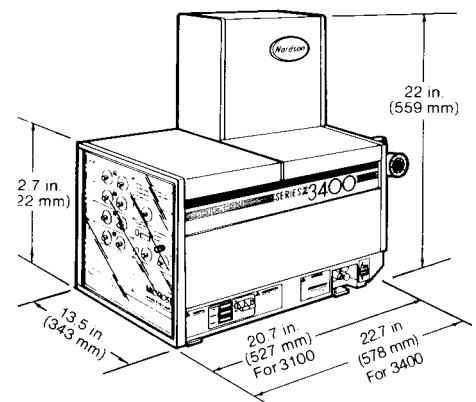
Hose Ports: up to 4

Notes:

1. Measured using hoses and guns with atypical EVA-based adhesive. Rates will vary significantly depending on adhesive type and application parameters.
2. Actual rate dependent on type of pump/drive selected; rates shown are based on the use of an adhesive with a viscosity of 30,000 centipoise.
3. Maximum capacity represents total system capability; actual power consumption depends on hose length and gun type installed.

Teflon is a registered trademark of E.I. DuPont de Nemours Co.

Dimensions



Dimension shown are for typical piston pump units. Gear pump units and units with OmniScan Control have different length and overall height measurements.



Guns and selected components†
†This service not available in all countries.



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