RADIUS ENGINEERING, INC.

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Radius 5 Gallon RTM Dispenser

The Radius 5 gallon RTM dispenser, specifically equipped to handle reactive material is a non-circulating system which melts and pumps single component resins such as PR500/520 from straight-sided, 5-gallon (20 liter) shipping pails. A heated one-piece platen with gear pump is lowered into the resin pail. An air-tight compartment is created below the platen by the platen seal.

The pump transfers heated material from a port in the bottom of the platen and forces it to the pump manifold, and through a heated injection line that is connected to a tool. Material in the bottom of the pail remains solid until the platen moves further down, therefore imposing no heat history on the un-melted material.

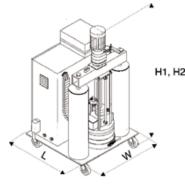
Radius control circuitry includes:

Resin pressure control: resin injection pressure (up to 500 psi) can be controlled by the operator.



Optional data acquisition: the Radius 5 gallon RTM dispenser has the ability to interface with computer software for monitoring and recording process parameters.

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Dimensions:

L:	915mm / 36 in.
W:	93 mm / 37 in.
H1:	1440 mm / 57 in.
H2:	2040 mm / 80 in.
	(extended)

Specifications:

Application: high capacity system for delivery of resin into tooling at high pressures. ■ Resin Type: any single component system directly from shipping container. ■ Resin capacity: up to 5 gallons (18925cc). ■ Pail Diameter: 280 or 286 mm / 11 or 11.3 in. ■ Pressure application: DC motor coupled to gear pump. ■ Voltage: 480 Vac, 3 phase, 25 amps. ■ Wattage: 9 kW Pneumatic requirements: 80-100psi. ■ Weight: approx. 360 kg / 794 lb. ■ Maximum flow rate: 500cc/min Maximum pressure limit: 500psi



Smooth Platen

System Features:

■ Positive-displacement gear pump driven by a continuous duty DC motor, featuring modular design for easy removal, disassembly and replacement.

• Microprocessor based CD 20 control system with easy to use operator panel and 7-segment displays provide precise control of pump speed and temperatures. Features include sequential startup, programmable over and under temperature alarms, temperature setback and automatic diagnosis.

• Smooth melt platens are supplied with non-stick ChemCoat® surfaces. This durable surface makes clean-up and maintenance very easy.

 Modular melt platen design allows for ease of change of the Teflon® encapsulated pail seal of the platen melting surface.

• Drum centering ensures perfect positioning of the pail and reduces the amount of resin remaining in the empty pail to a minimum.

 Adjustable contacts
"drum low" and "drum empty" to notify operators, automatic air blow-off and drum holddown simplifies pail changes.

Pressure control valve allows adjustable and accurate output of resin pressures.

■ The output pressure control feature will maintain the hydrostatic pressure at a constant, programmable level.

Optional Features:

Profibus interface will allow seamless integration into the control system (PLC) of the production machine; for statistical process control / data logging, remote control of all functions of process data.

• Week / day timer saves heat-up time by switching the unit's heaters on and off automatically.

■ Warning light tower allows seeing the status of the unit (on / ready / drum low / drum empty) from a distance.

■ Additional temperature channels for use of devices that need accurate temperature control.