



One Henkel Way  
Rocky Hill, CT 06067  
Technical Information Help Line 1-800-562-8483  
www.equipment.loctite.com

## Product Description Sheet Loctite® HM20 PUR Dispense System

North American Engineering Center

### PRODUCT DESCRIPTION

The Loctite® HM20PUR Dispense System is designed to dispense dots or beads of Loctite® PUR Hot Melt adhesive products packaged in 30ml syringe barrels. The system consists of a Controller, Dispense Head, Pre Heater and a needle preheater. The controller is an electro-pneumatic device to precisely control the amount of air pressure applied to the syringe barrel for a set time period to deliver a consistent amount of adhesive each time the system is actuated. The Controller has two heating circuits that can be used to heat two Dispense heads at the same time or (1) Dispense Head and (1) Pre-Heater. The system is designed to be used with Loctite® Benchtop Robots or can integrate into any stationary work cell.

Loctite® EQ HM20 PUR Controller-2033850



Loctite® EQ HM20 PUR Syringe Preheater-2033861



Loctite® HM20 PUR Dispense Head -2016756



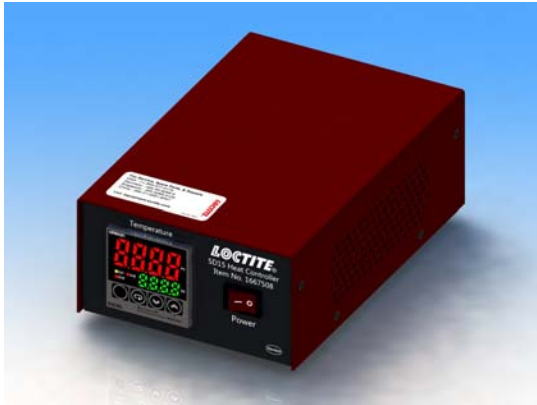


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The Loctite® SD15 Heat Controller-1667508



Loctite® HM20 PUR Needle Preheater-2033849



### PRODUCT FEATURES

- Integrated dispense time control, pressure control and temperature control features into one system
- Two independent temperature control channels: designed to control either the Loctite® HM20 PUR Dispense Head or Loctite® HM20 PUR Pre Heater
- Operation temperature goes to 180°C.
- Digital control for dispense head and pre heater temperature and dispense timer
- Analog air pressure regulator for syringe pressure control, 0-100 psi (7 bar)
- Dispense sequence can be foot switch actuated or externally actuated via another control source like a PLC
- Auto dispense mode for timed dispense control of beads or drops
- Manual dispense mode for variable volume applications
- PPS safety shroud on dispense head
- Reduced material change over time when used with Loctite® HM20 PUR Pre Heater



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### TECHNICAL DATA

| Attribute                                  |        | Value   |
|--|--------|---|
| Dispense Time Range                        |        | 0 – 99.99 seconds   |
| Operation Temperature                      |        | ~180°C  |
| Air Input                                  |        | Clean, dry air not to exceed 125 psig (8.5 bar), and filtered with a maximum of 50 micron |
| Regulation Range of the Pressure Regulator |        | 0 – 7 bar<br>(0 – 100 PSI)  |
| Power                                      |        | Supply: 230 V / 50 – 60 Hz, 2.0A<br>Internal: 24 VDC                                      |
| Controller Dimensions                      | Width  | 250 mm  |
|  | Depth  | 160 mm  |
|  | Height | 265 mm  |
| Dispense Head Weight                       |        | 710 g   |
| Min Flow Rate (25 ga tip)                  |        | 1 mg/sec*   |
| Max Flow Rate (18 ga tip)                  |        | 73 mg/sec*  |

\* For reference only, this is not a specification. Flows rate were established dispensing Loctite® 3542.

### SD15 Heat Controller 1667508

| Attribute             |        | Value                                    |
|-----------------------|--------|--|
| Power                 |        | Supply:220VAC/50-60 Hz<br>Internal:24VDC |
| Dimensions            | Width  | 127 mm                                   |
|                       | Depth  | 194 mm                                   |
|                       | Height | 73 mm                                    |
| Operation Temperature |        | + 10°C to + 40°C                         |
| Storage temperature   |        | - 10°C to + 60°C                         |
| Weight                |        | 1.5KG                                    |



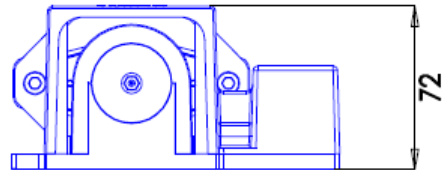
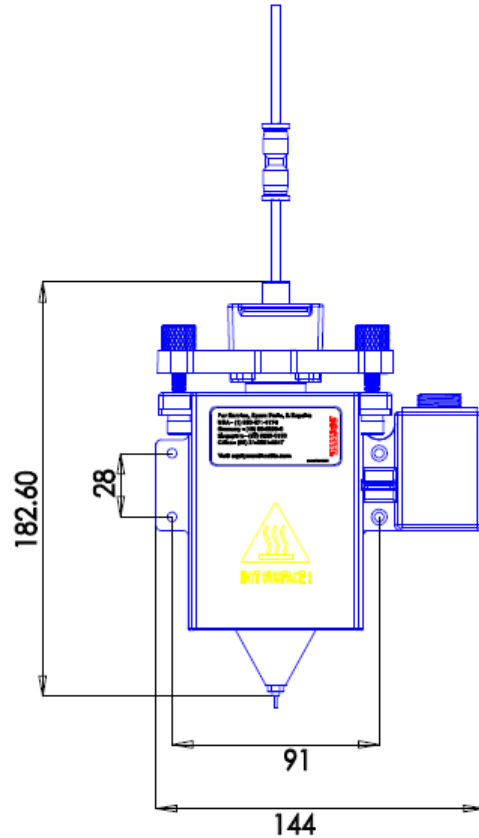
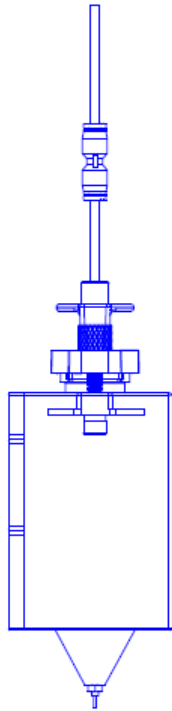


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## Loctite® HM20 PUR Dispense Head –2016756



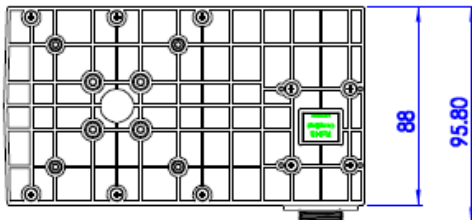
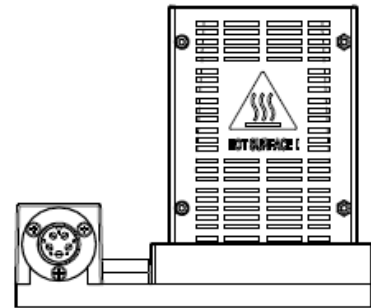
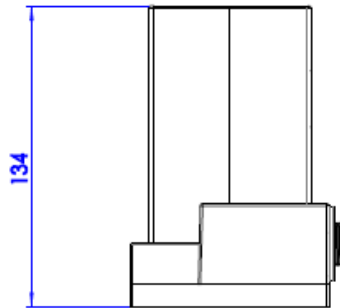
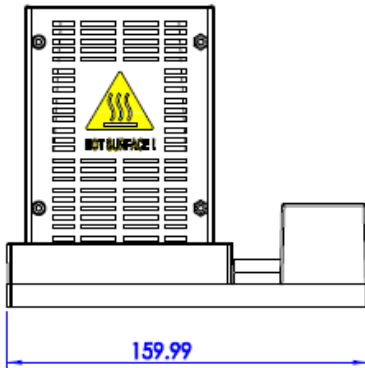
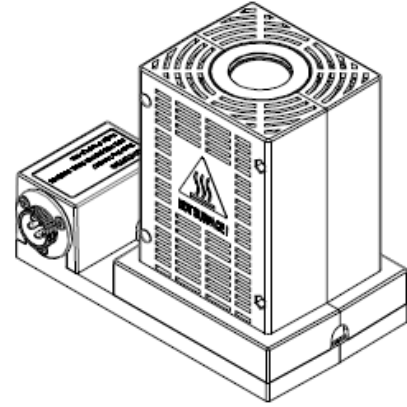
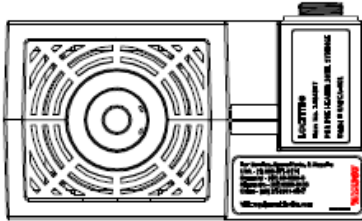


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## Product Description Sheet Loctite® HM20 PUR Dispense System

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### Loctite® EQ HM20 PUR Syringe Preheater-2033861



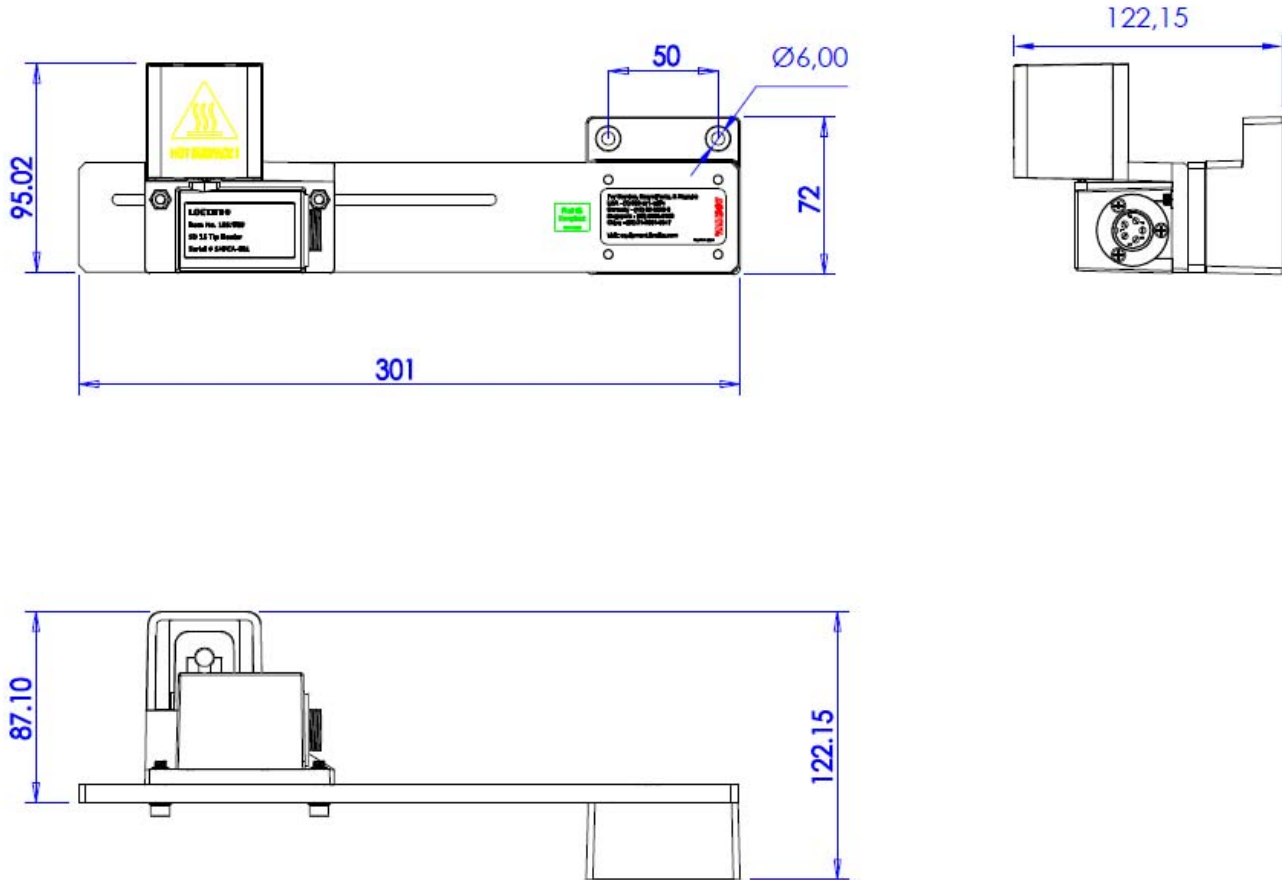


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### Loctite® HM20 PUR Needle Preheater-2033849



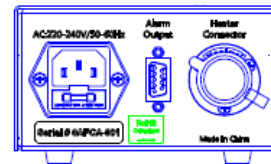
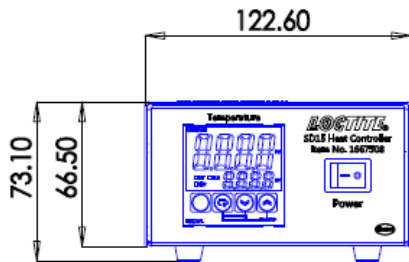
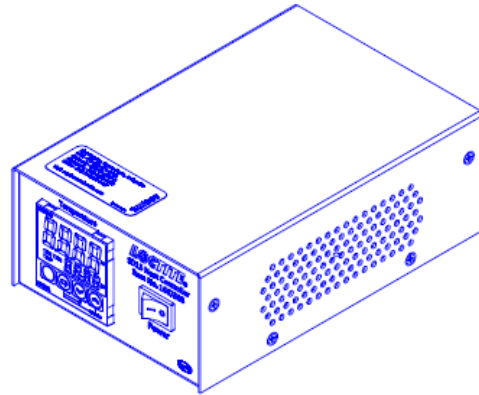
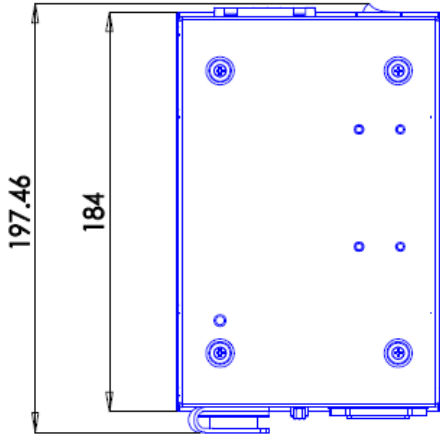


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### SD15 Heat Controller: 1667508



### Needles Tips and Accessories (not shown)

| Loctite Part Number | Description                           |
|---------------------|---------------------------------------|
| 985397              | Loctite® Air Filter, Regulator, Gauge |
| 97201               | Foot Switch Assembly                  |
| 1483249             | Needle—All SS, 1/2" 18G               |
| 1483250             | Needle—All SS, 1/2" 20G               |
| 1483262             | Needle—All SS, 1/2" 21G               |
| 1483264             | Needle—All SS, 1/2" 23G               |
| 1483265             | Needle—All SS, 1/2" 25G               |
| 1500889             | Needle—All SS, 1/2" 19G               |
| 8902749             | PUR Dispensing Head Cable             |