



## THE COOLANT HEATER OF CHOICE FOR TRANSIT



### ULTRA-POWERFUL COOLANT HEATER FOR DEMANDING TRANSIT ENVIRONMENTS

With up to 125,000 BTU of output, the Proheat M-Series is an ultra-powerful, cold weather auxiliary heating solution for buses and coaches. This diesel-powered heater preheats the engine to ensure quick and reliable starts while reducing engine wear. Proheat M-Series heaters are also powerful enough to supply

supplemental interior heat for passenger and driver comfort while the main engine is running. The heater is designed to be accessible and easily serviced by technicians to help minimize down time. CAN Bus connectivity means the heater can be seamlessly installed on vehicles that rely on the J1939 network standard. Trusted in the transit industry for years, Proheat M-Series heaters are installed on buses and coaches across North America.

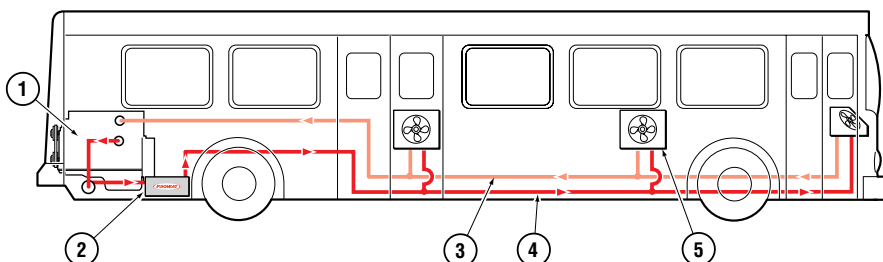
### AT A GLANCE

#### M-SERIES HEATER FEATURES

- Diesel-powered coolant heater
- Models from 50,000 to 125,000 BTU/hr (15 to 37 kW)
- Engine preheat reduces start-up wear and tear
- Generates supplemental heat for drivers and passengers
- Optional control of an external coolant pump
- Two year parts and labor warranty

#### STANDARD FEATURES

- Standard J1939 CAN Bus
- USB connectivity
- Integrated diagnostic indicator
- Diaphragm compressor
- Dual mode temperature sensor
- Up or Down Exhaust available

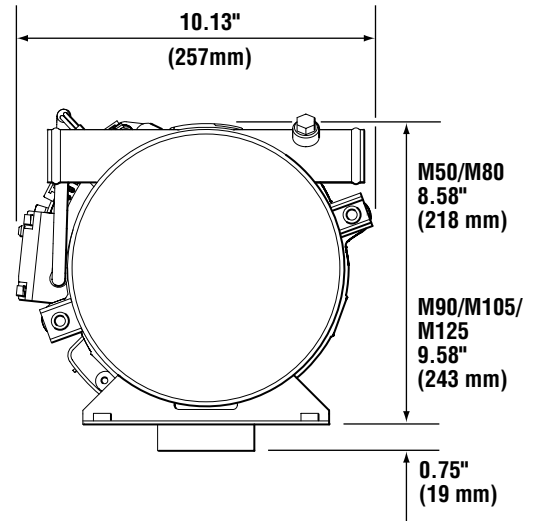
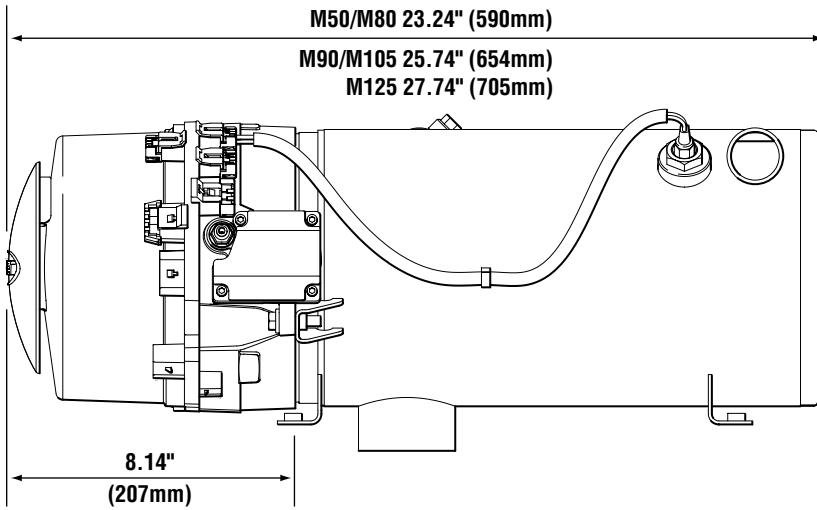


- 1 Engine
- 2 Proheat M-Series
- 3 Return to Engine
- 4 Supply from Proheat
- 5 Fan





**SPECIFICATIONS**



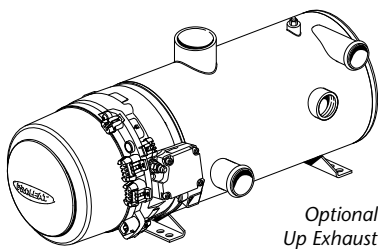
| MODEL   | M50  | M80         | M90         | M105         | M125         |
|---|--|-------------|-------------|--------------|--------------|
| RATING – BTU/hr (kW)                                      | 50,000 (15)  | 80,000 (23) | 90,000 (26) | 105,000 (31) | 125,000 (37) |
| SYSTEM VOLTAGE  | 24V  | 24V         | 24V         | 24V          | 24V          |
| CURRENT DRAW – Amps                                       | 5.2  | 5.2         | 5.2         | 9.5          | 9.5          |
| FUEL CONSUMPTION US gal/hr (L/hr)                         | 0.48 (1.80)  | 0.78 (2.95) | 0.78 (2.95) | 1.05 (3.97)  | 1.10 (4.16)  |
| IGNITION TYPE   | Electronic Spark Ignition  |             |             |              |              |
| FUEL TYPES  | Diesel (ULSD, #1, #2, Artic) JP8, Jet A1, Biodiesel B1-B20*                                  |             |             |              |              |
| COOLANT OUTPUT TEMP.                                      | +150°F to +185°F (+65°C to +85°C) <i>Optional set points available</i>                       |             |             |              |              |
| AMBIENT TEMPERATURE                                       | Operating -40°F to +122°F (-40°C to +50°C)<br>Non Operating -58°F to +185°F (-50°C to +85°C) |             |             |              |              |
| WEIGHT – lbs (Kg)   | 53 (24)  | 53 (24)     | 57.5 (26.1) | 57.5 (26.1)  | 60 (27.2)    |
| HEAT EXCHANGER CAPACITY U S gal (L)                       | 0.5 (2)  | 0.5 (2)     | 0.6 (2.3)   | 0.6 (2.3)    | 0.7 (2.6)    |
| COOLANT SYSTEM:   |  |             |             |              |              |
| Minimum Capacity – US gal (L)                             | 3 (11.4)   | 6 (22.7)    | 6 (22.7)    | 8 (30.3)     | 9 (31.4)     |
| Recommended Minimum Flow Rate Through Heater US gpm (lpm) | 7.5 (28)   | 12 (45)     | 13.2 (50)   | 15.8 (60)    | 18 (68)      |
| Maximum Coolant Pressure PSI (BAR)                        | 29 (2)   | 29 (2)      | 29 (2)      | 29 (2)       | 29 (2)       |

M-Series heater with install kit.



A removable burner head provides easy access for technicians and minimizes service down time.

Please Note: Specifications are subject to change without notice.  
\* Limited service life above B5, increased inspection frequency required.



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