

# Capabilities



## Engine Only Preheater

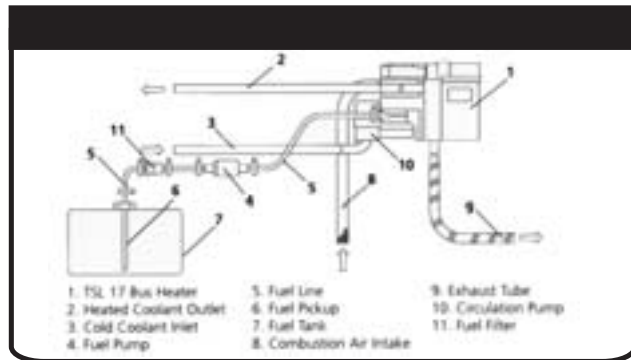
### Capabilities

Self contained turn-key engine only preheater/anti idling system capable of bringing the engine coolant to normal adequate starting temperatures and maintaining that temperature in the engine of the Bus.

This system will include a completely automated NOI (no operator interface) self powered rechargeable start/stop timer capable of a repeatable 7 day cycle, including 0-8 separate and distinct repeatable cycles.

### Benefits

- Eliminates cold start issues
- Decreases vehicle cold operation safety problems
- Decreases the potential of air brake compressor freeze-up
- Eliminates white smoke at engine start up
- Warm oil and instant oil pressure
- Quicker cabin heating after start
- Eliminates power cords for plug in block heaters
- Provides limited defrost heat
- Cold cranking of the engine is eliminated, requiring less battery power
- Preheats the automatic transmission fluid in many cases



### 7-Day Digital Timer

Once the timer is set, the system will automatically preheat coolant at the specified time and days with no additional intervention. The engine is warm every time the driver begins his or her work shift.



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# Operating Specifications

## Engine Only Preheater



### Specifications:

#### Variable Heat Rating:

Input:	
Full:	20,960 Btu/h (6.1 kW)
Reduced:	10,480 Btu/h (3.0 kW)
Output:	
Full:	17,200 Btu/h (5.0 kW)
Reduced:	8,600 Btu/h (2.5 kW)
Fuel type:	Diesel #1, #2, Arctic, ULSD, Alternative Bio Diesel Fuels

#### Fuel consumption:

Full:	0.16 gal/h (0.61 l/h)
Reduced:	0.08 gal/h (0.30 l/h)

#### Rated voltage:

12V

#### Power consumption @ 12V

Full:	3.8 Amps (46 W)
Reduced:	2.6 Amps (32 W)

#### Water Flow:

2 gal/minute @ 1.9 PSI  
(450 l/h @ 0.13 bar)

#### Dimensions:

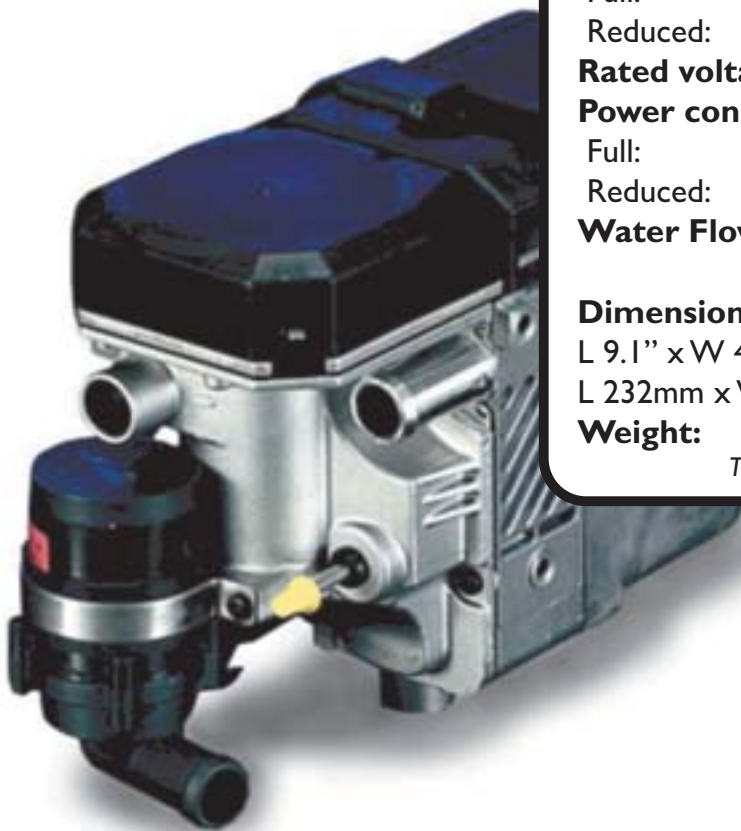
L 9.1" x W 4.1" x H 6.4"

L 232mm x W 105mm x H 163mm

#### Weight:

7.0 lbs (3.2 kg)

*Technical data is subject to +/- 10% variance*



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