

Auxiliary Heating System



## ▶ Thermo S 160/230/300/350/400

Innovative heating technology for a clean future

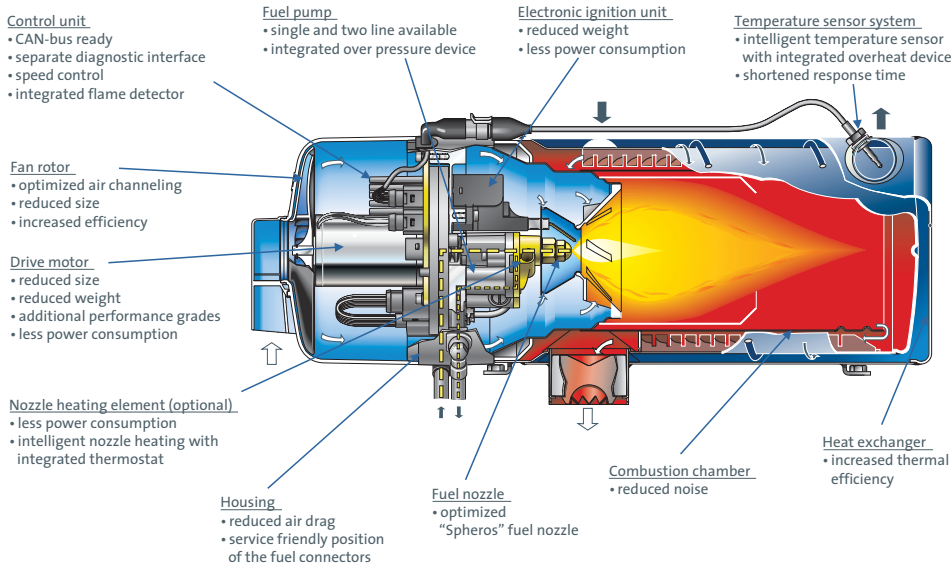


The new Spheros Thermo S series heaters, with over 50 years of development behind them, are the next logical answer to the future requirements of the bus industry. Without compromise, the Thermo S series improves upon the features and advantages of our previous line of heaters with even fewer parts, less weight and reduced fuel and power consumption in a more compact size. The Thermo S series offers greater flexibility in heating requirements with the addition of two more power levels to the already expansive team of auxiliary heaters.

Environmental compatibility, low life cycle costs and increased performance were the focus of development efforts. Known for the reliability and quality of our products, as well as with innovative enhancements, we remain the trendsetter in bus heaters.

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## Thermo S in detail



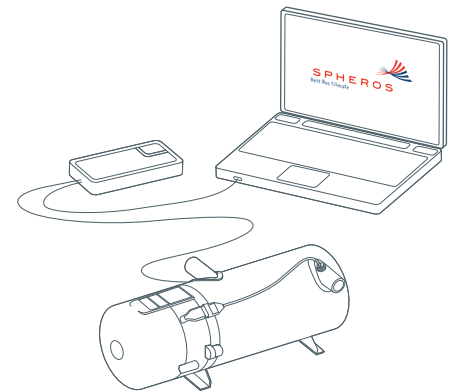
## Features

- Provides engine preheat
- Provides supplemental interior heat for increased passenger comfort and safety
- Maintains optimal engine operating temperatures
- Accelerates window defrosting and defogging
- Eliminates cold engine starts
- Reduces the need to idle the engine
- Reduces overall fuel and maintenance costs
- Compact design
- Advanced Diagnostic System

## Advancements

- 5 power stages from 55,000 to 137,000 Btu/h - all in the same compact size guarantees the right solution for all climatic demands
- Substantially below existing and future exhaust emission limits
- Noise reduced by 3 dB(A) compared to previous models
- Long life due to optimized components reduces life cycle costs
- Lower fuel consumption than previous models
- Suitable for operation with alternative bio-diesel fuels
- SAE J1939 Interface compatibility

Spheros Thermo test diagnosis for fast data queries during servicing



Technical data	Thermo S 160	Thermo S 230	Thermo S 300	Thermo S 350	Thermo S 400
Heat output	55,000 Btu/h (16 kW)	80,000 Btu/h (23 kW)	104,000 Btu/h (30 kW)	120,000 Btu/h (35 kW)	137,000 Btu/h (40 kW)
Power consumption	2.08 Amps @ 24V (50W)	2.7 Amps @ 24V (65W)	3.75 Amps @ 24V (90W)	5.0 Amps @ 24V (120W)	7.5 Amps @ 24V (180W)
Fuel consumption (Max.)	0.50 gal/h (1.9 l/h)	0.79 gal/h (3.0 l/h)	0.95 gal/h (3.6 l/h)	1.14 gal/h (4.3 l/h)	1.29 gal/h (4.9 l/h)
Nominal voltage	24 Volts	24 Volts	24 Volts	24 Volts	24 Volts
Dimensions L x W x H	23.6" x 9.73" x 8.66" (600 mm x 247 mm x 220 mm)				
Weight	40.5 lbs. (18.4 kg)	41.5 lbs. (18.8 kg)	41.5 lbs. (18.8 kg)	41.5 lbs. (18.8 kg)	41.5 lbs. (18.8 kg)

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