

Spheros, Thermo 230/300/350

Ready to start immediately, even at low temperatures



These powerful water heaters raise high-power engines to their operating temperature before starting. In public or tourist buses, they quickly establish a comfortable temperature level in the passenger areas without the engine running. In the case of railcars or locomotives, engines are preheated before starting. Apart from considerations of readiness for operation, these water heaters thereby also ensure that the engine has a longer life expectancy. The supplementary heating function during operation ensures a comfortable interior temperature, even when outside temperatures are very low. These water heating systems go beyond the legal requirements to meet the high standards of bus manufacturers as well.

- Water heaters with 20/30/35 kW heating capacity
- Optional preheating of fuel
- Quick installation thanks to complete preconfigured systems



Trucks



Buses



Rail



Off-highway



Defense



Special Vehicles

Technical data

| | Thermo 230 | Thermo 300 | Thermo 350 |
|--|---|------------|------------|
| | Diesel | | |
| ECE approval number ECE R122 (heating) | E1 00 0007 | E1 00 0008 | E1 00 0009 |
| ECE approval number ECE R10 (EMC) | E1 03 1010 | | |
| Heating capacity (kW) | 23 | 30 | 35 |
| Fuel consumption (l/h) | 3.5 | 4.0 | 4.5 |
| Nominal voltage (V) | 24 | | |
| Rated power consumption without coolant pump (W) | 65 | 110 | 140 |
| Fuels | Diesel EN 590; Heating oil (EL) DIN 51603 | | |
| Operating temperature range (°C) | −40 to +85 | | |
| Dimensions L x W x H (mm) | 610 x 246 x 220 | | |
| Weight (kg) | 19.0 | | |
| | Coolant pump U4814/Aquavent 5000 | | |
| Volume flow against 0.2 bar (l/h) | 5,000 | | |
| Dimensions L x W x H (mm) | 229 x 100 x 105 | | |
| Weight (kg) | 2.1 | | |
| | Coolant pump U4854/Aquavent 5000S | | |
| Volume flow against 0.2 bar (l/h) | 5,000 | | |
| Dimensions L x W x H (mm) | 249 x 100 x 105 | | |
| Weight (kg) | 2.2 | | |
| | Coolant pump U4856/Aquavent 6000SC | | |
| Volume flow against 0.4 bar (l/h) | 6,000 | | |
| Dimensions L x W x H (mm) | 229 x 110 x 115 | | |
| Weight (kg) | 2.5 | | |

Thermo Rail 230/300/350 heaters on request.

Scope of delivery

- Heater, fuel filter, silicone hose, molded hose, exhaust deflector, switch

Control elements

- Rotary switch with function indicator
12/24 V, switching current 15 amps, green light to indicate operation, with switch position plate and connection plugs



- Standard digital timer
12/24 V, integrated wake-up function
3 preselectable on-times per day,
programmable 7 days in advance,
continuous heating possible, in the case of
DBW 2010/2016 and
Thermo 230/300/350, operation is only
possible in combination with relays, cover
panel dimensions (L x W): 89 x 42 mm,
installation depth including plug: 51 mm,
limited availability due to end of production

