

## 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		
<b>Coolant pump U4814/Aquavent 5000</b>			
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		
<b>Coolant pump U4854/Aquavent 5000S</b>			
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		
<b>Coolant pump U4856/Aquavent 6000SC</b>			
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

