

## Thermo 230, Thermo 300, Thermo 350

Large water heater systems for buses, rail and commercial vehicles



The high performance Thermo series offers the ideal systems to quickly and efficiently bring large vehicles up to operating temperature. At the same time, the interior or passenger compartment is heated to a comfortable temperature.

The systems are well-suited for a wide variety of applications. Thus, there is a version adapted for railway traffic, just as there is a fuel pre-heating option. With their high level of reliability, simple installation and minimal maintenance times, these systems are especially economical to operate.

- Water heater with up to 35 kW heating capacity
- Optional fuel pre-heating
- Rapid installation due to pre-configured complete systems
- Fulfilment of the certification conditions for railroad usage (see reverse) as well as the high standards of the Bus OEM's.



Truck



Light Vehicles



Bus



Rail



Construction



Defense



Special Vehicles

## Technical Specifications Heaters

	Thermo 230	Thermo 300	Thermo 350
EC type approval label	e1*2001/56*2004 EG-0007	e1*2001/56*2004 EG-0008	e1*2001/56*2004 EG-0009
EMC-certification	72/245*2006/28 EG		
Heating performance (kW)	23	30	35
Fuel consumption (kg/h)	3.49	4.65	5.23
Nominal voltage (V)	24 (20 - 28)		
Nominal power consumption (W)	65	110	140
Fuels	Diesel EN590 (B5), Arctic-Diesel, Heating oil (EL)		
Operation temperature range (°C)	-40 to +80		
Measurements L x W x H (mm)	610 x 246 x 220		
Weight (kg)	19		

## Technical Specifications Circulating Pump

	Aquavent 5000	Aquavent 5000S	Aquavent 6000SC
Flow rate (l/h)	5,200	5,200	6,000
Measurements L x W x H (mm)	229 x 100 x 105	249 x 100 x 105	229 x 110 x 115
Weight (kg)	2.1	2.2	2.5

## Additional Specifications for Rail Heaters

		Thermo 230 Rail	Thermo 300 Rail	Thermo 350 Rail
Heater rail approval	Type approval number	EBA 32AZ3 /0174/08		
Specific market requirements	Heater type approval	DIN EN 50155, DIN EN 50125-1, DIN 6700-1 to 6		
	EMC	DIN EN 61000-6-2:2005, DIN EN 61000-6-3:2007		
	Fire protection	DIN EN 5510 level 1.2		
Operation voltage range	Variante .155	20 - 28		
	Variante 350.190	-	-	19 - 28

## Versions for railway applications

The water heaters are available in specific railway versions and guarantee that locomotives and railcars are fully operational at low temperatures. The pre-installed complete solutions with filter heaters and circulating pumps are also available in heater classes from 23 to 35 kW.

