

# Thermo 90 ST

## Economical Efficiency and Safety with Webasto Water Heaters

### Saving Fuel While Sparing the Engine

The versatile and high-performance water heater warms driver and sleep cabins to the perfect temperatures and pre-heats mid to large-sized engines. Coldstarts are thereby prevented and increase the operational life expectancy of the engine.

The water heaters provide comfortable warmth during the prescribed resting periods. This allows for maximum relaxation and recuperation of the driver, clearly increased the safety of the driver and the cargo.

Idling is eliminated, which reduces costs, CO<sub>2</sub> emissions, and the consumption of fuel. Through this the environment is spared.

Reliable and high-quality products are a necessity for operating in the defense market. Product variants with extended product specifications are offered from Webasto and are applicable for ground forces and contribute to the operational readiness.



### Product Benefits:

- For pre-heating the engine and cabin interior
- Development with consideration to the most current OEM requirements and automotive standards
- Quality guarantee by TS16949
- Original equipment or aftermarket installation possible
- Terms of delivery individually customized for each vehicle
- High operational readiness of the vehicles even at low temperatures
- Reduced fuel consumption by avoiding idling
- Able to diagnose which part of the unit is in need of service or maintenance
- World-wide service network



Model	Van	Truck	Bus	Rail	Construction & Agricultural Machinery	Special Vehicles	Defense
Thermo 90 ST		■	■		■	■	■

### Technical Specifications:

Heater		Thermo 90 ST	
		Diesel	Benzin
EC type approval label		e1*2001/56*2004/78*0019	
Heating performance (kW)	Control range/Boost	1.8 - 7.6 / 9.1	2.0 - 7.6 / -
Fuel consumption (kg/h)	Control range/Boost	0.19 - 0.9 / 1.1	0.25 - 1.0 / -
Nominal voltage (V)		12 / 24	12
Nominal power consumption (W) (with circulation pump)	Control range/Boost	37 - 83 / 90	37 - 83
Fuels		Diesel EN590 (B5) Arctic-Diesel Heating oil (EL)	Benzin EN 228 ROZ 91 / 95 / 98
Operation temperature range (°C)		-40 up to +80	
Measurements L x W x H (mm)		355 x 133 x 232	
Weight (kg)		4.8	
		Circulation pump U4846	
Flow rate (l/h)		700	
Measurements L x W x H (mm)		180 x 74 x 112 (incl. ports)	
Weight (kg)		0.7	

### Defense Variant:

The special military variant of the diesel heating unit is available. With a protected controlling unit, a protected pump, as well as protected cables, the unit fulfills the norms of the Def Standard 59 - 41 and MIL 461 F. It is approved for various military fuel types.



### Controlling Units:

- Switch with Function Display

The controlling unit for easy turning on and off of the heater.



- Timer 1531, Standard Timer

The controlling unit for temperature pre-setting, for programming up to three various starting times, and for setting alarms.

