

Electrical equipment for tank wagons

The team of the RWS Railway Service GmbH has designed the electrical equipment for high-quality tank wagons which transport heavy fuel in freezing cold regions. In particular, the extremely low temperatures and the use of the electrical equipment fixed to the underside of freight wagons have been taken into consideration when defining the actual requirements. The feed is supplied by the heating train line (1000 V, 162/3 Hz) and supplies a high-voltage transformer – which has been designed for this special purpose – with the current required for the operation of the heating elements fixed onto the wall of the tank. An adequate system for controlling and monitoring the heating elements allows for a constant temperature of the freight transported.

Main components:

- 1 pc. high voltage control box 1 kV
- 1 pc. high voltage transformer 1 kV, 230 V, 16 kW
- 1 set of high voltage fittings 1 kV
- 2 pcs. control panel
- 8 pcs. heating registers (750 W each)
- 1 set of heating system for drainvalve

Technical data

Primary voltage	1000 V AC	16 2/3 Hz
Heating voltage	230 V	16 2/3 Hz
Control voltage	24 V GS	
Heating output	14,5 kW	

Status message on the voltage circuits and heating circuits
Temperature control by means of thermostat/bimetal devices
Temperature monitoring

