

Technical Information

05-2010



Maintenance Record - Thermo 230/ 300/ 350

The heater should be checked in regular intervals at least at the beginning of the heating season (point of time when weather conditions cause increased use of heater). The maintenance intervals indicated below apply to applications and requirements typical of buses.

Check / Maintenance	Important Information	Check Result		Measured values, Maintenance / Repair performed
		O.K.	Not O.K.	
1. Electrical connections a) Disconnect electrical connectors to wiring harness, inspect for corrosion, spray and reconnect after performing step 5. b) Inspect fuses for corrosion and/ or check continuity.	Use suitable anti-corrosion, electrical contact spray.	<input type="checkbox"/>	<input type="checkbox"/>	
2. Heat exchanger a) Inspect paint for dark stains or burns (local overheating). b) Check for signs of leaking. c) Clean heater exterior and interior.	If necessary, investigate reason for overheating (e.g. water circuit). Check temperature limiter.	<input type="checkbox"/>	<input type="checkbox"/>	
3. Fuel system a) Check fuel lines and connections for leaks. b) Replace fuel filter cartridge and gasket. c) If installed, open shut-off valves. d) Fuel pump and fuel lines. e) Replace fuel pump inlet screen and mounting O-rings.	Check for tight fuel supply and return line connections. Retighten connections and hose clamps. Replace pump and lines every 5 years.	<input type="checkbox"/>	<input type="checkbox"/>	
4. Burner head a) Check combustion air inlet for contamination. Swing burner head open: b) Check protection cover for damage. c) Check housing interior for accumulation of fuel caused by leaks. d) Clean flame detector lens and window. e) Check condition of ignition electrodes. f) Replace fuel nozzle.	Replace damaged protection cover. Replace bent electrodes. When carbon deposits are evident, replace fuel filter more often.	<input type="checkbox"/>	<input type="checkbox"/>	

Technical Information

05-2010



Check / Maintenance	Important Information	Check Result		Measured values, Maintenance / Repair performed
		O.K.	Not O.K.	
5. Exhaust system a) Check exhaust tubing for contamination and clean as required. b) Remove combustion chamber from heat exchanger, inspect both components for damage and contamination and clean or replace as required. c) Insert combustion chamber and mount burner head. Check for secure connection to heat exchanger. d) Restore electrical connections.		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
6. Water system a) If present, service water filtration. b) If installed, open water shut-off valves.		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
7. Functional checks a) If installed, open shut-off valve in fuel return line. b) Check heater function. c) Check for smoke emissions in run-down; replace nozzle if required.	Allow heater to operate for a minimum of 10 minutes.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	