E. Fuel preheater (148)

A heat exchanger (148) is installed in the inlet line of the heater to preheat the fuel.

Function

Full preheating up to +8 °C fuel temperature: the required fuel is drawn in through the heat exchanger by the fuel pump.

From +8 °C up to +25 °C mixed operation: the required fuel flows partially through the heat exchanger.

Above +25 °C the heat exchanger is bypassed by the thermostat; the fuel is drawn in directly by the fuel pump. Fuel preheating ensures trouble-free operation with winter-grade diesel fuel as a rule down to approx. -25 °C ambient temperature.

Fuel thermostat
A Inlet line from fuel tank
B Suction line to fuel pump
C Inlet line to heat exchanger
D Return line from heat exchanger