



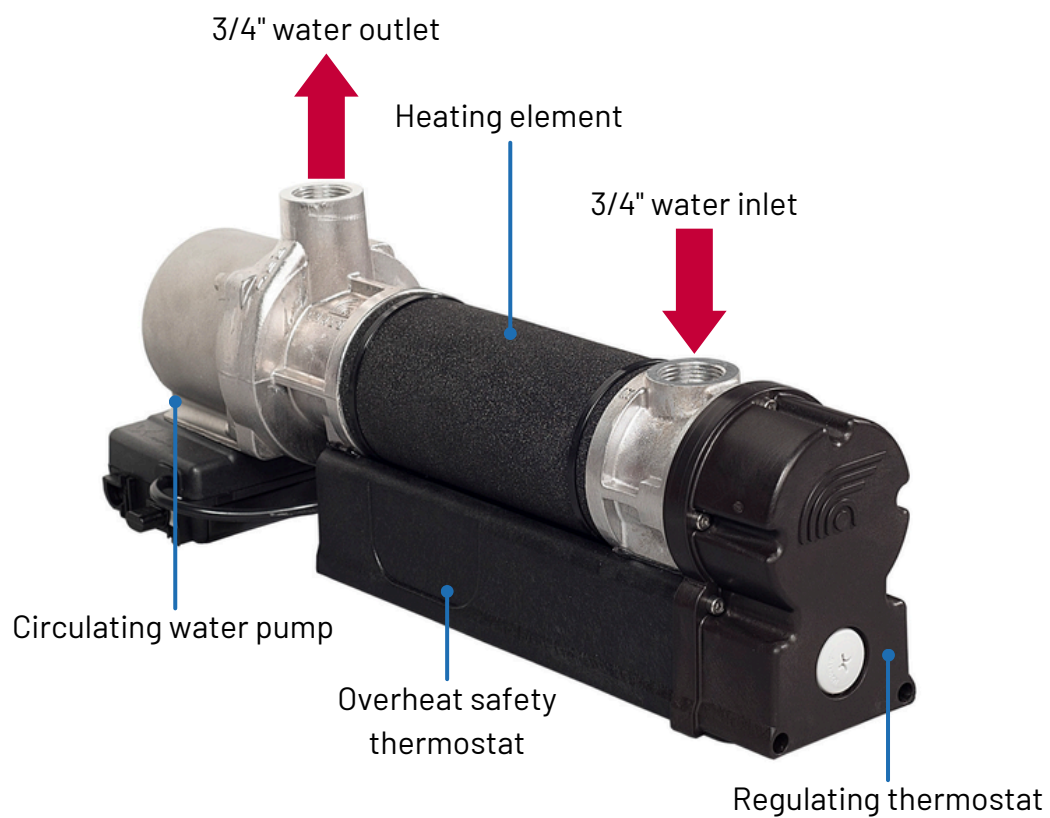
TopStart 1-3 kW

This electric coolant heater is designed for small to mid-size engines. It is suitable for use in all land-based and maritime industrial applications.

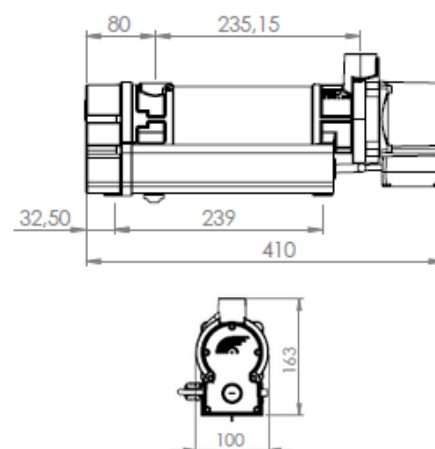
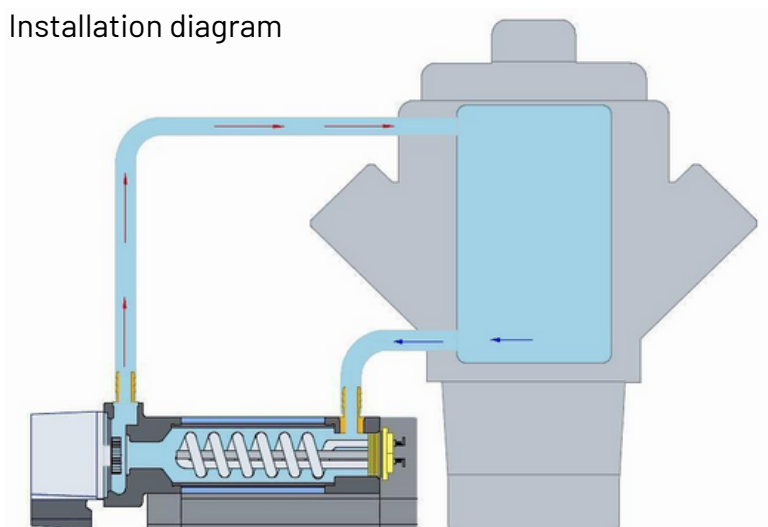
The heater features an integrated pump, an adjustable control thermostat and a safety thermostat. The installation in by-pass to the engine's coolant system is simple. During intervals in operation, the heater automatically keeps the engine at the required temperature to enable reliable full power starts at any time.

The TopStart 1-3 kW protects the engine from damage and wear caused by cold starts and ensures optimal operating conditions.

Heating unit	Circulation pump
• Die casted aluminum body • PA66 protection covers and support base • 150 cm power cable • 3/4" water outlet and inlet + connection kit	• Glandless circulation pump • Flowrate: 1.6 to 2m³/h to 3m height manometer • Adjustable speed • Available voltage: 230V • Available frequency: 50 Hz, 60 Hz
Water temperature control thermostat	Heating element
• Adjustable thermostat 0°C-80°C rated 25A, 100.000 cycles • Available temperature interval: 0°C-80°C (32°F - 176°F)	• Low watt density heating element made of Incoloy 800 (7,5W / cm²) which increases its lifetime and those of the coolant • Available powers: 1Kw - 3Kw • Available voltages: 120V, 208V, 230V
Safety thermostat	
• Security thermostat with manual reset, rated 25A, 6.000 cycles (110 °C / 230°F)	



Installation diagram



TopStart weight: 4,6 kg

The TopStart heater is delivered with:

Connection kit



Fixation kit

