

TOPSTART

HIGH FLOW

Preheating system with pump

The TopStart is an electric coolant heater for all types of water-cooled engines. It is universal, reliable, easy to install and maintenance free.

The heater can be put into service a few hours before starting the engine, in order to keep the engine permanently at the required temperature. This ensures an easy full power start whatever the ambient temperature and avoids cold start mechanical damage.

The system has also following advantages: fuel savings, decreasing pollution, reduced engine wear, no more difficult cold starts, vehicle cab heater instantly operational. The TopStart 1 to 3 kW is suited for all industrial applications, either stationary (generator sets) or mobile (heavy-duty vehicles, vans, trucks).

ERI @ CE



APPLICATIONS

- Strong die-casted aluminium body 100% recyclable
- Very compact product with integrated circulating pump for quick and homogeneous preheating
- Integrated powerful circulating pump saving electricity and improving the life cycle of engine components
- Heating element with top-quality shielding and low specific power, increasing its lifecycle and that of the coolant
- Control thermostat with high cutout power for an optimized life cycle

Product benefits

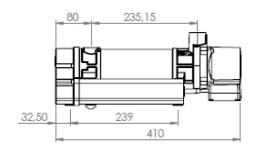
- Safety thermostat with manual re-set option to protect the heating element if water levels in the circuit are low or if the control thermostat fails
- High waterproofness
- Easy replacement of parts
- Two years warranty on labour and spare parts

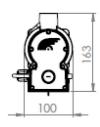


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Weight TopStart: 4,6 Kg

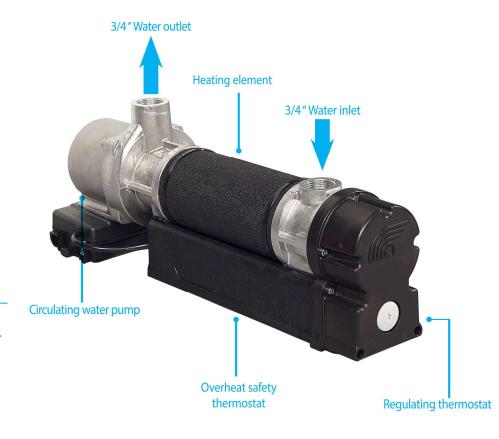
DELIVERED WITH CONNECTION KIT AND FIXATION KIT.

Connection kit



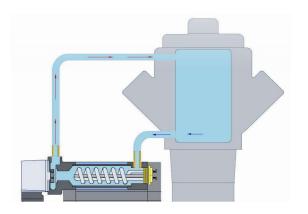






Technical characteristics

INSTALLATION DIAGRAM



HEATING UNIT

- Die casted aluminium body
- PA66 protection covers and support base
- 150 cm power cable
- 3/4" water outlet and inlet + connection kit

CIRCULATING PUMP

- 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

- Adjustable thermostat 0-80°C rated 25A, 100.000 cycles
- Available temperature interval: 0°C 80°C (32°F 176°F)

SAFETY THERMOSTAT

- Security thermostat with manual reset, rated 25A, 6.000 cycles (110 $^{\circ}\text{C}$ / 230 $^{\circ}\text{F}$)

HEATING ELEMENT

- Low watt density heating element made of Incoloy 800 (7,5W / cm²) what increases its lifetime and those of the coolant
- Available powers: 1Kw 3Kw
- Available voltages: 120V, 208V, 230V