

Your Official PowerHeat B.V. Partner for Sub-Saharan Africa

CUSTOMER BROCHURE

Engine Pre-Heating Solutions

PowerHeat B.V. 



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	Product
	PowerHeat Coolant Heater
	PowerHeat Fuel & Oil Heater
	Zerostart
	Thermostart
	Flowstart
	TopStart 1–3 kW
	TopStart 4–12 kW
	TopStart (Bio)
	PH Thermosiphon Heater
	Battery Chargers
	WaveLine Cabin Heater



Product Range Primary Selling Feature



Product	Primary Selling Feature
PowerHeat Coolant Heater	Very large wattage range (up to 26 kW) for big engines & industrial use
PowerHeat Fuel & Oil Heater	Compact design without pump—ideal for fuel/oil circuits
PH Thermosiphon Heater	Built-in adjustable thermostat (0–80 °C) for precise control
Zerostart	Simple design with fixed thermostat for basic, reliable heating
Thermostart	Adjustable thermostat for user-set temperature control
Flowstart	Integrated circulation pump for forced coolant flow
TopStart 1–3 kW	Low power range—sized for small engines
TopStart 4–12 kW	Mid-range power for larger engines
TopStart (Bio)	Designed for diesel and biofuel compatibility
Battery Chargers	IP65-rated, robust chargers for tough environments
WaveLine Cabin Heater	Multiple power modes for flexible, adjustable cabin comfort



With decades of experience in supplying parts for industrial engines, we partnered with PowerHeat B.V. to meet the growing market demand for engine preheating and temperature management solutions in sub-Saharan Africa.

We supply premium preheaters for:

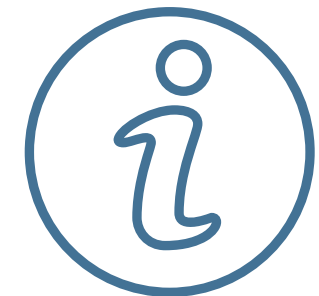
- High, medium and low speed engines
- All industries

Our innovative PowerHeat preheating system:

- Compact, electrically operated circulation preheater
- Features a new and innovative heating technique

Our product range includes preheating solutions for:

- Coolant
- Diesel
- Fuel
- Engine Oils
- Hydraulic Oils
- Other Industrial Liquids





With PowerHeat's expertise in preheating systems and extensive product range, **we are able to supply leading Original Equipment Manufacturers (OEMs)** in many different industries as well as the entire aftermarket.

***Among the OEMs and large aftermarket customers
we are supplying are industry leaders such as:***

- 2G Energietechnik
- Atlas Copco
- August Storm
- Bredenoord
- Bundeswehr
- Damen Shipyards
- De Maas
- Deutsche Bahn
- Hasco Rail Europe
- Kinolt
- Minimax
- Pon Power
- Zeppelin Power Systems



Preheating and its benefits

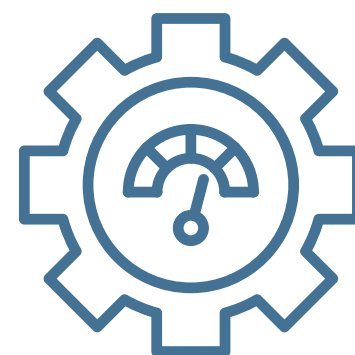


Temperature management is at the core of creating **optimal operating conditions** for engines and drive systems. Engine preheating leads immediately to the following benefits:



Protection of the engine

Preheaters bring the engine and fluids to the temperature where they are best protected from wear.



Efficiency

Thermal control is key to prolong the service life of engines, liquids and batteries.



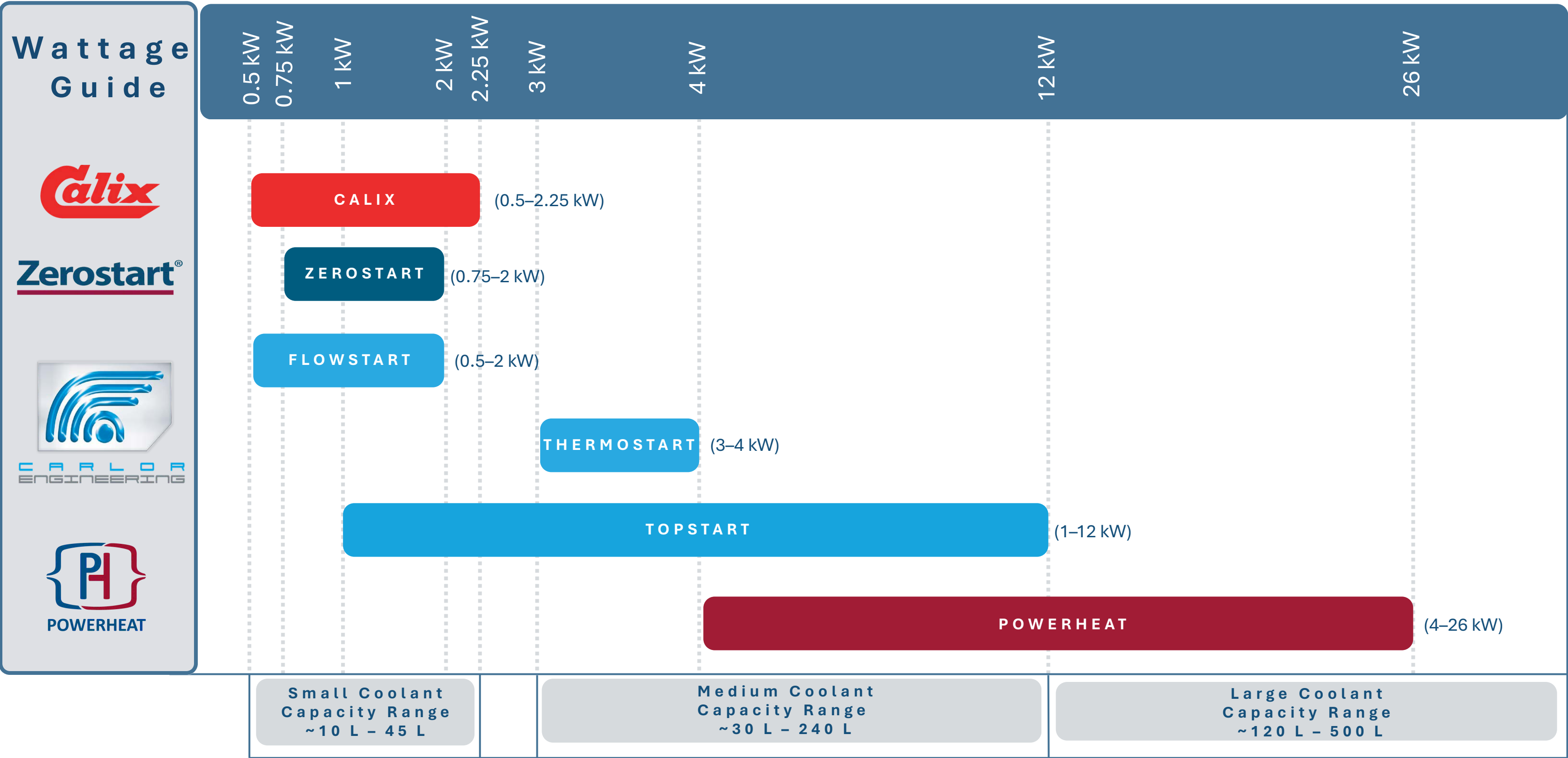
Reduction of the environmental impact

Preheated engines consume less fuel and lower the overall engine emissions



Cost and time savings

Less maintenance, reduced fuel costs, no warm-up time





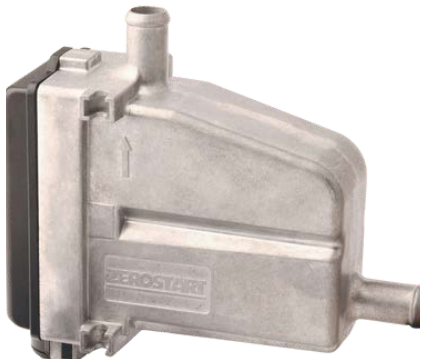
	COOLANT HEATERS	FUEL & OIL HEATERS
	PowerHeat	PowerHeat
		
Type	Forced Circulation	Without Pump
Shared Features	New Style Heating System Adjustable Thermostat Compact Design	
Wattage	Large Wattage Range: Up to 26kW	Up to 18kW



Our Products

Zerostart®



COOLANT HEATERS				FUEL & OIL HEATERS
Zerostart	Thermostart	Flowstart	Topstart	Topstart (Bio) Diesel & Oil
				
Type				
Thermosiphon Heater	Thermosiphon Heater	Forced Circulation	Forced Circulation	Forced Circulation
Thermostat				
Fixed	Adjustable	Fixed	Adjustable	Adjustable
Wattage				
750–2250 W	3 & 4 W	0.5–2 kW	1–12 kW	1–2.7 kW



Our Products

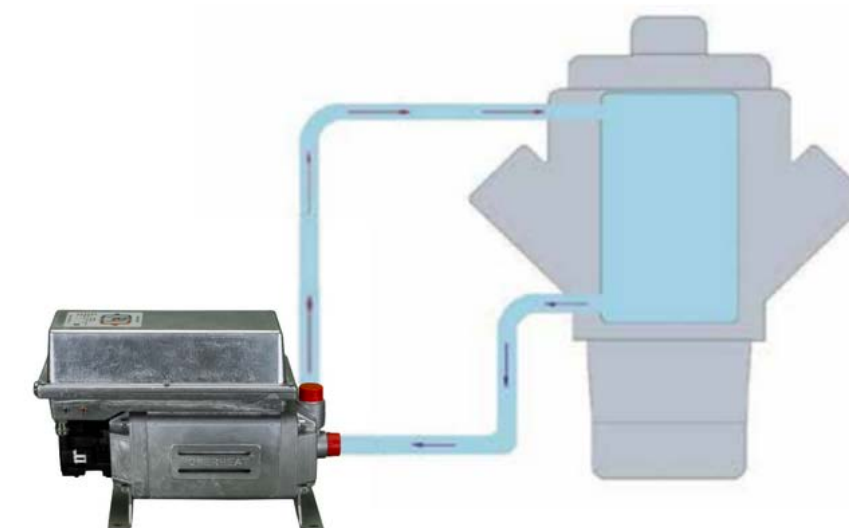


	Automotive Block Heater	Thermosiphon Coolant Heater	Battery Chargers	Cabin Heaters
				
Typical Use	Engine Block Warming	Coolant Preheating	Battery Maintenance	Interior Cabin Heating
Temperature Control	-	60–80°C (high temp range) 25–50°C (low temp range)	-	-
Wattage	500W–2000W	500W, 750W, 1000W, 1500W, 2000W	Typically 12V / 24V	12V / 24V options



POWERHEAT COOLANT HEATER

POWERHEAT COOLANT HEATER	
Construction	Embedded in aluminium AS13 and finished with a teflon-like coating
Safety	Avoids direct contact between the heating elements and the liquids. This keeps the whole engine system corrosion-free
Inlet/Outlet	2 × 1"
Thermostat	20°–90°C, rated 25A
Security Thermostat	120°C
Surface Load	3W/cm ²
Power Pump Range	52 W / 230 V / 50–60Hz
Pump Flow Rate	2.8m ³ /h @ 3m
Max Operating Pressure	10bar / 145psi
Voltage	400V, 440V, 480V, 690V
Wattage	4,5 kW, 6 kW, 7,5 kW, 9 kW, 12 kW, 15 kW, 18 kW, 20 kW, 24 kW, 26 Kw



Installation diagram

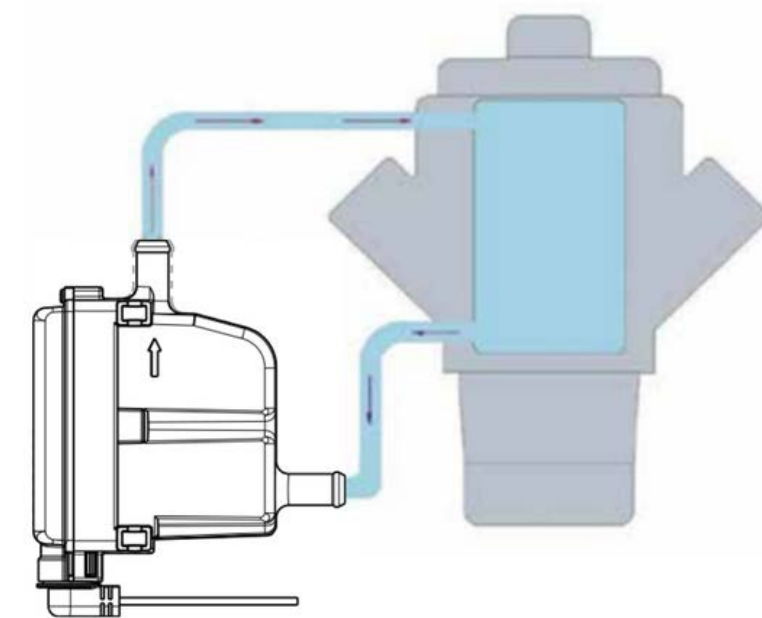
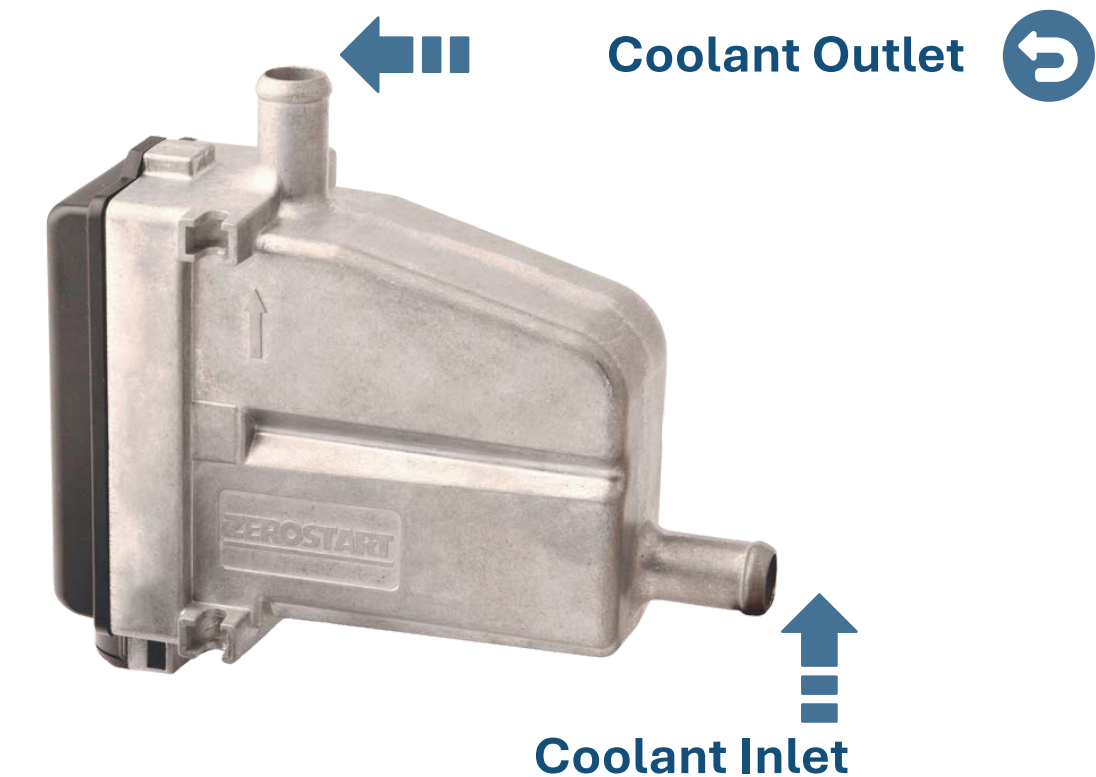


POWERHEAT Fuel & Oil Heater

Construction	Embedded in aluminium AS13 and finished with a teflon-like coating
Safety	Avoids direct contact between the heating elements and the liquids. This keeps the whole engine system corrosion-free
Inlet/Outlet	2 x 1"1/4
Thermostat	20°–90°C, rated 25A
Security Thermostat	120°C
Surface Load	3W/cm ²
Power Pump Range	52 W / 230 V / 50–60Hz
Pump Flow Rate	2.8m ³ /h @ 3m
Max Operating Pressure	10bar / 145psi
Voltage	400V, 440V, 480V, 690V
Wattage	4,5 kW, 6 kW, 7,5 kW, 9 kW, 12 kW, 15 kW, 18 kW

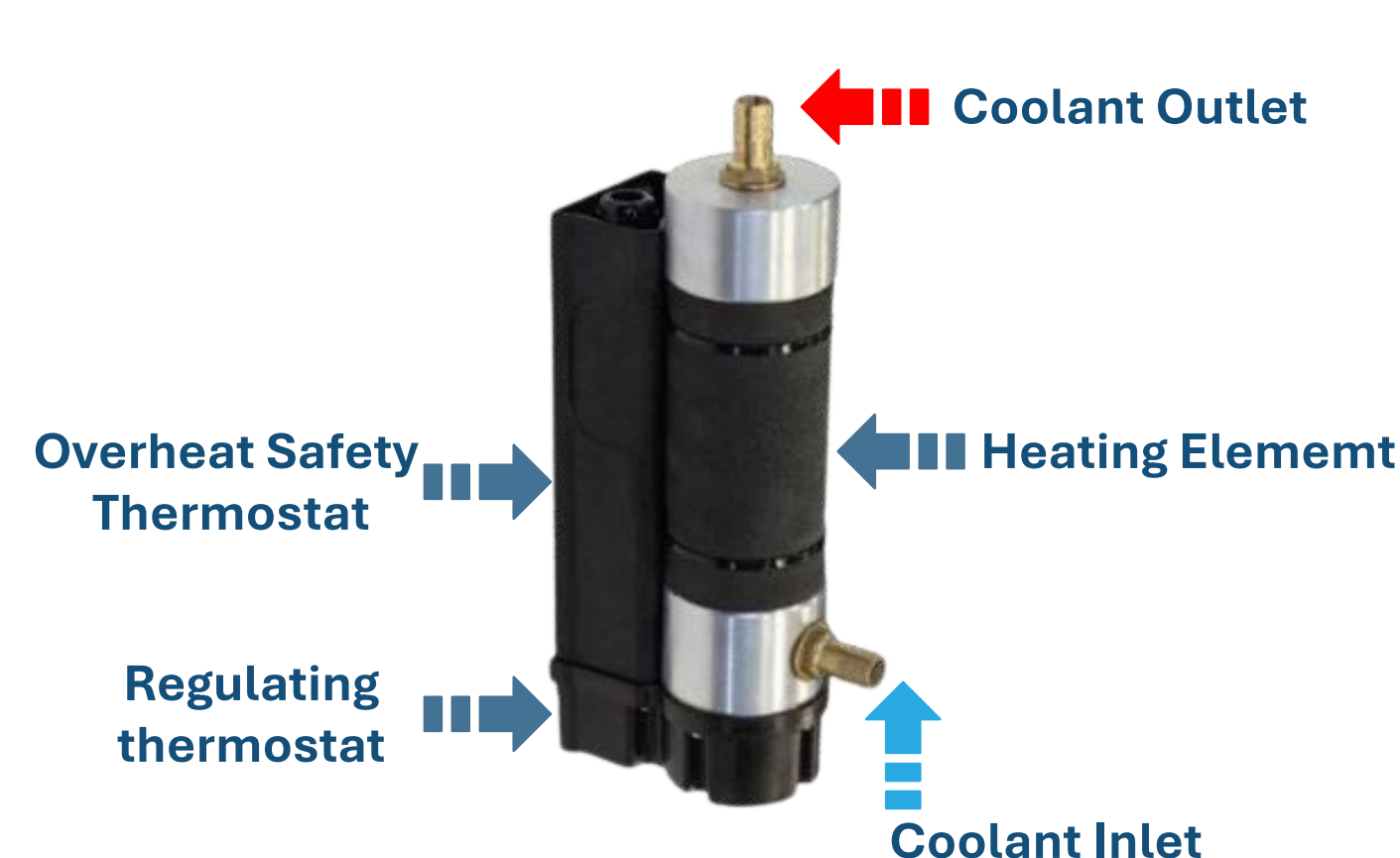


ZeroStart Thermosiphon Coolant Heater	
Feature	Details
Construction	Rugged, die-cast, one-piece aluminium
Safety	Overheat thermostat with automatic reset
Power Cord Options	1.52m (5ft.) or 3.65m (12ft.)
Voltage Versions	120 V and 230 V available
Regulating Thermostat Ranges	27°–38°C (80°–100°F), 38°–49°C (100°–120°F)
Included Accessories	Supplied with plug and mounting bracket
Wattage / Hose Connections	750 W – 1500 W (5/8" / 16 mm hose) 1500 W – 2250 W (3/4" / 19 mm)

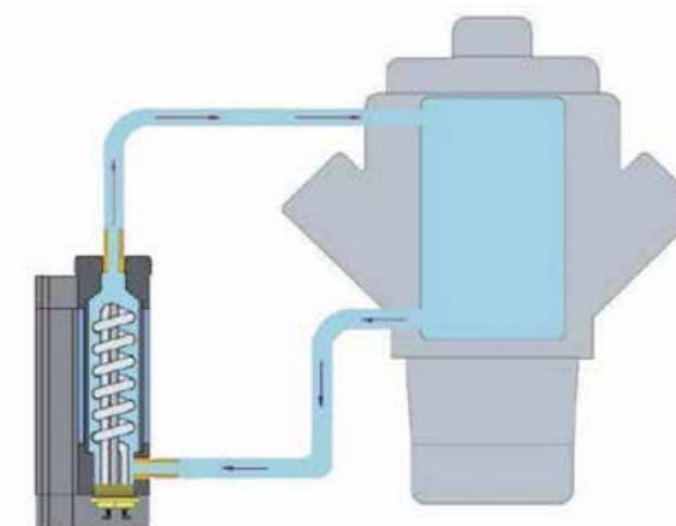




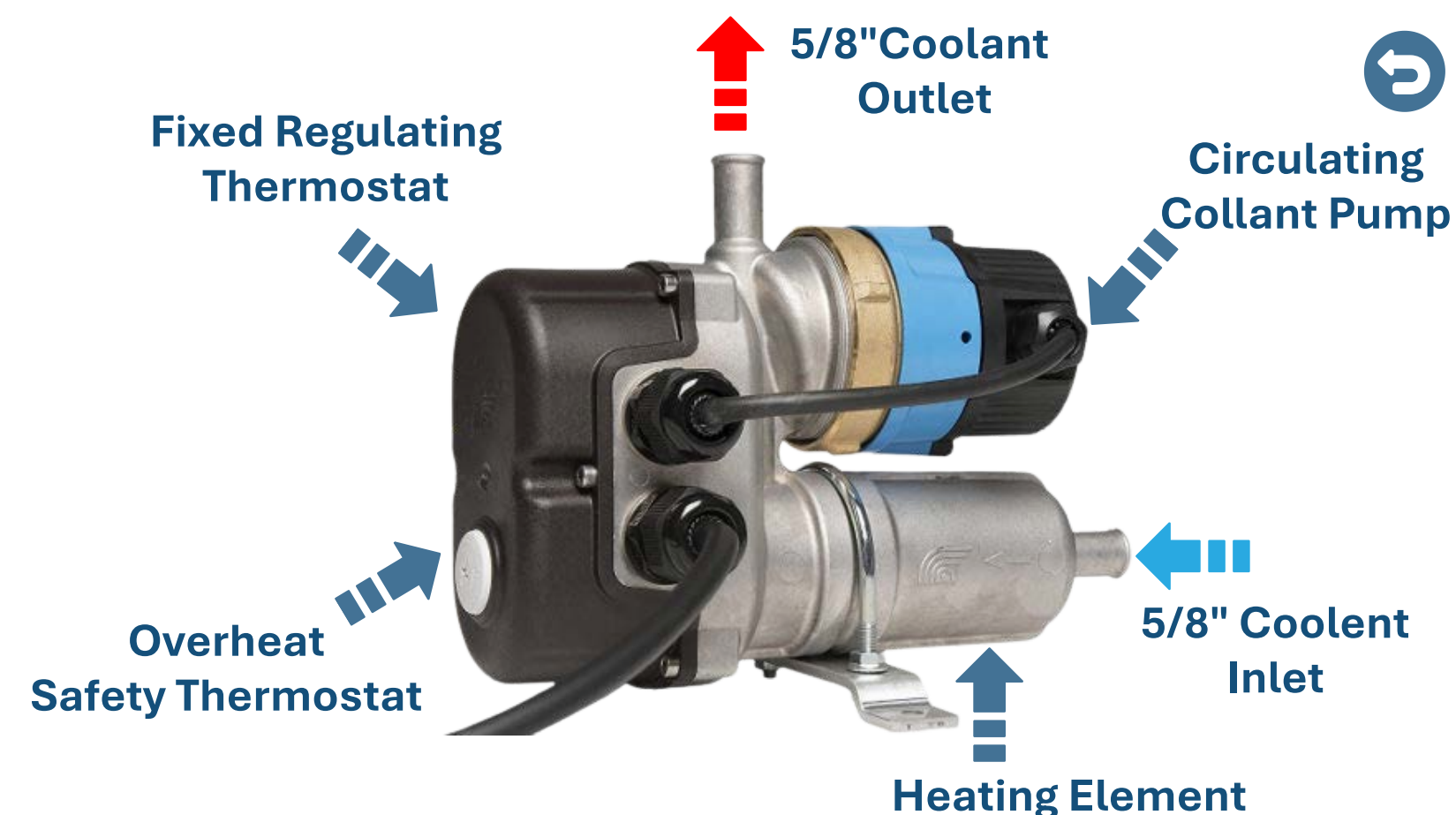
ThermoStart Thermosipon Coolant Heater	
Heating Unit	
Construction	Machined aluminium AlMgSiBi construction
Safety	PA66 protection covers and support base
Power Cord Options	150cm power cable
Water Connections	¾" inlet and outlet
Heating Element	
Heating Element	Low watt density Incoloy800 (7.5 W/cm ² –3 kW)
Voltage	120V and 230V available
Wattage	3 kW & 4 kW
Control & Security Features	
Adjustable Thermostat	0°C–80°C, rated 25A
Security Thermostat	Manual reset, rated 25A, 110°C / 230°F



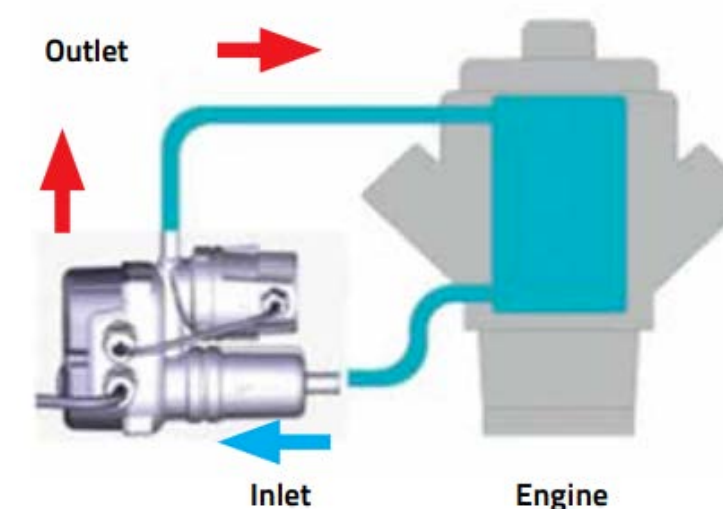
Installation diagram



FlowStart Coolant Preheater with Integrated Pump	
Heating Unit	
Construction	Aluminium AS9U3 injected construction with impregnation treatment
Safety	PA66 protection covers
Power Cord Options	150cm power cable
Inlet/Outlet	5/8" (15mm) hose barb inlet and outlet
Heating Element	
Heating Element	Low watt density (7.5 W/cm ² , 48 W/in ² , 1.5 kW)
Safety	Incoloy800 protection sheet
Voltage	120V or 230V available
Wattage	500 W, 1000 W, 1500 W, 2000 W
Control & Security Features	
Fixed Thermostat	34°C–40°C (93°F–104°F) or 35°C–50°C (95°F–122°F), rated 25A
Security Thermostat	110°C with manual reset, rated 25A
Circulation Pump	
Flow Rate	300L/hour @ 1m head (1.3GPM @ 1.5PSI)
Voltage	120V or 230V available
Frequency	50Hz and 60Hz

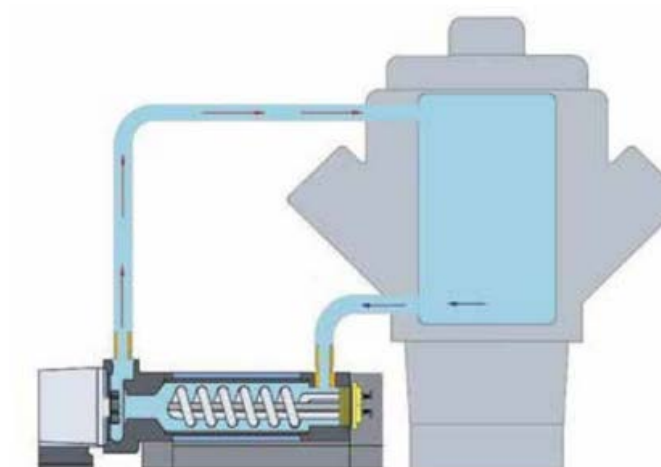
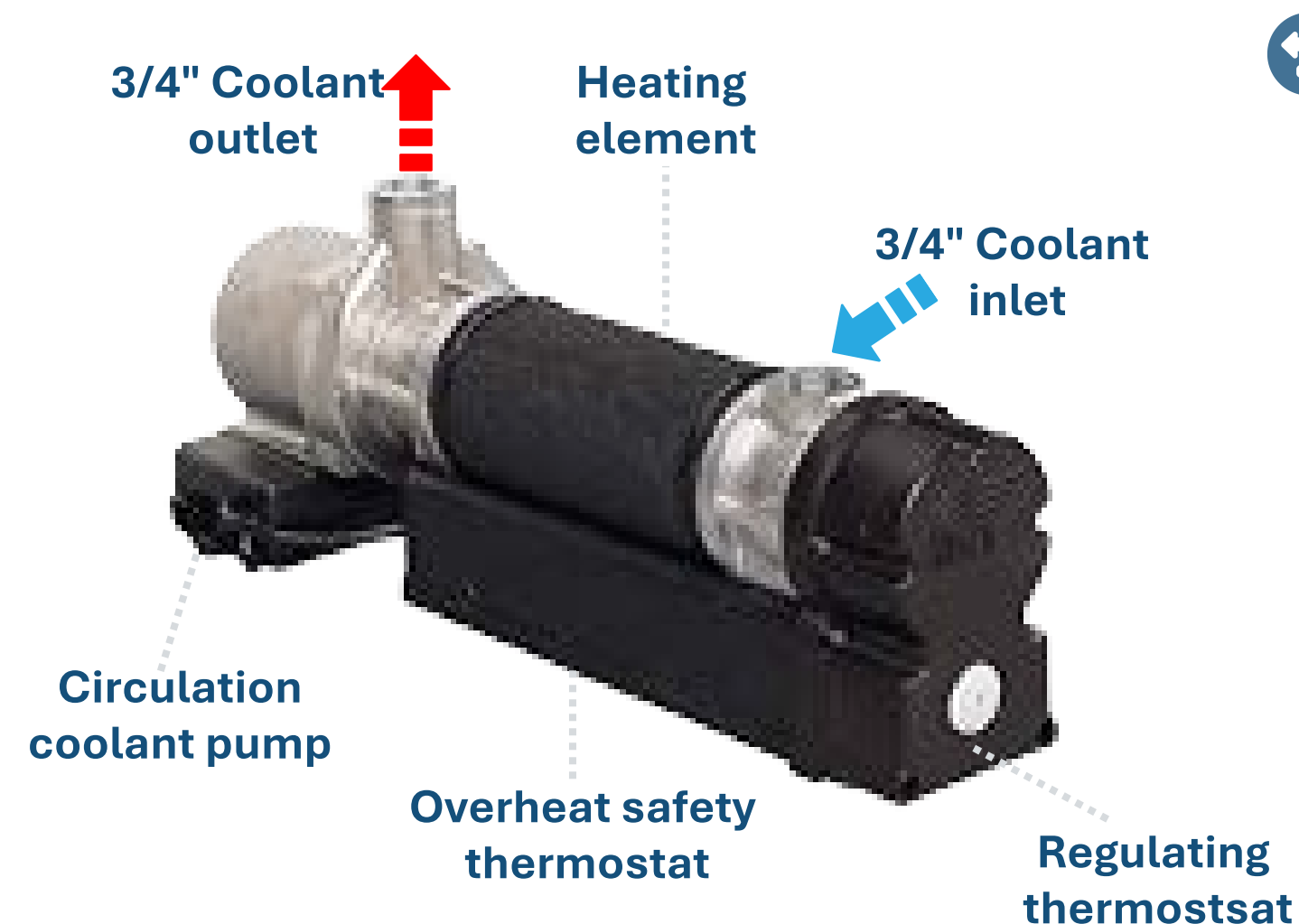


Installation diagram





TopStart Electric Coolant Engine Heater with an Integrated Pump for Midsize Engines	
Heating Unit	
Construction	Die cast aluminium body
Safety	PA66 protection covers and support base
Power Cord Options	150 cm power cable
Inlet/Outlet	3/4" water outlet and inlet + connection kit
Heating Element	
Heating Element	Low watt density heating element made of Incoloy800 (7,5W / cm ²)
Voltage	120V, 208V, 230V
Wattage	1kW – 3 kW
Control & Security Features	
Adjustable Thermostat	0°C-80°C rated 25A
Security Thermostat	Security thermostat with manual reset, rated 25A, (110°C / 230°F)
Circulation Pump	
Flow Rate	1,6 to 2 m ³ /h to 3m height manometer
Voltage	230V
Frequency	50Hz, 60Hz



Installation diagram



TopStart Electric Coolant Engine Heater with an Integrated Pump for Large Engines

Heating Unit

Construction	Die cast aluminium body
Safety	PA66 protection covers and support base
Power Cord Options	150 cm power cable
Inlet/Outlet	3/4" water outlet and inlet + connection kit
Note:	Standard supply with control box
	Optional without control box

Heating Element

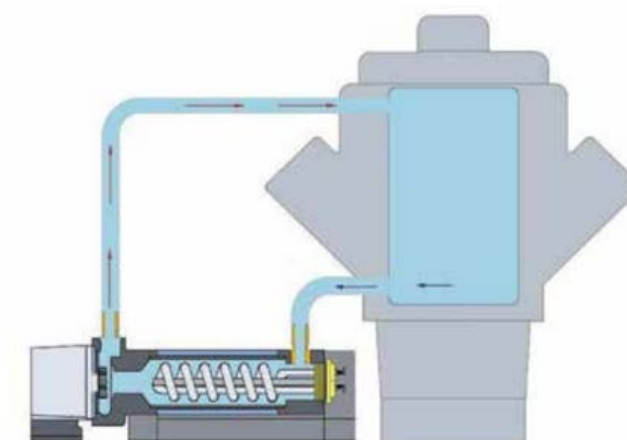
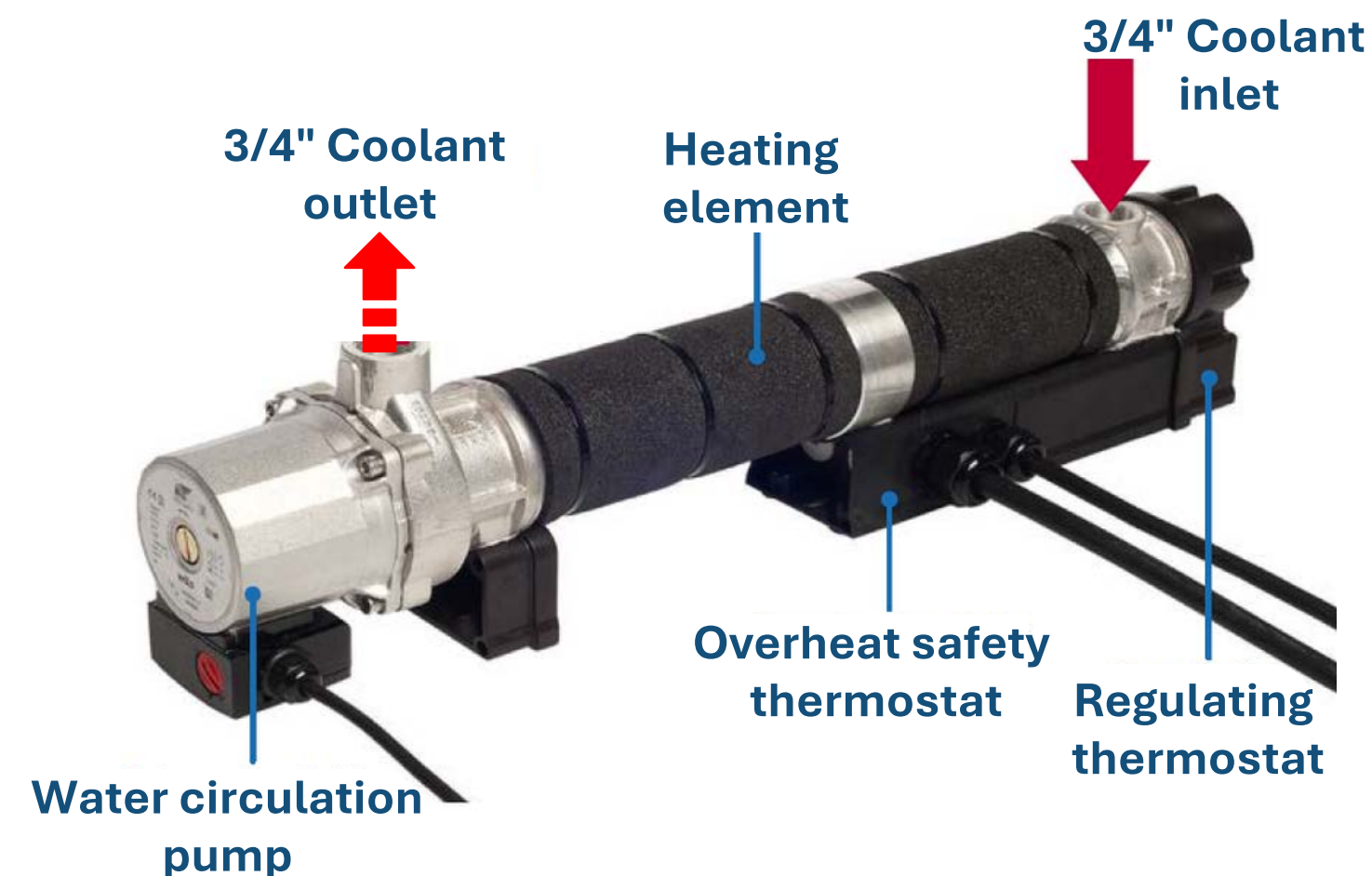
Heating Element	Low watt density heating element made of Incoloy800 (7,5W / cm ²)
Voltage	230V / 400V / 440V / 480V / 690V
Wattage	4kW – 12 kW

Control & Security Features

Adjustable Thermostat	0°C-80°C rated 25A
Security Thermostat	Security thermostat with manual reset, rated 25A, (110°C / 230°F)

Circulation Pump

Flow Rate	1,6 to 2 m ³ /h to 3m height manometer
Voltage	120V or 230V
Frequency	50Hz, 60Hz



Installation diagram



Electrical Preheating System with Forced Circulation to Warm Up (Bio) Diesel & Oil

Heating Unit

Construction	Machined aluminium AlMgSi1 heating unit
Safety	PA66 protection covers
Inlet/Outlet	3/4" inlet and 1" outlet

Heating Element

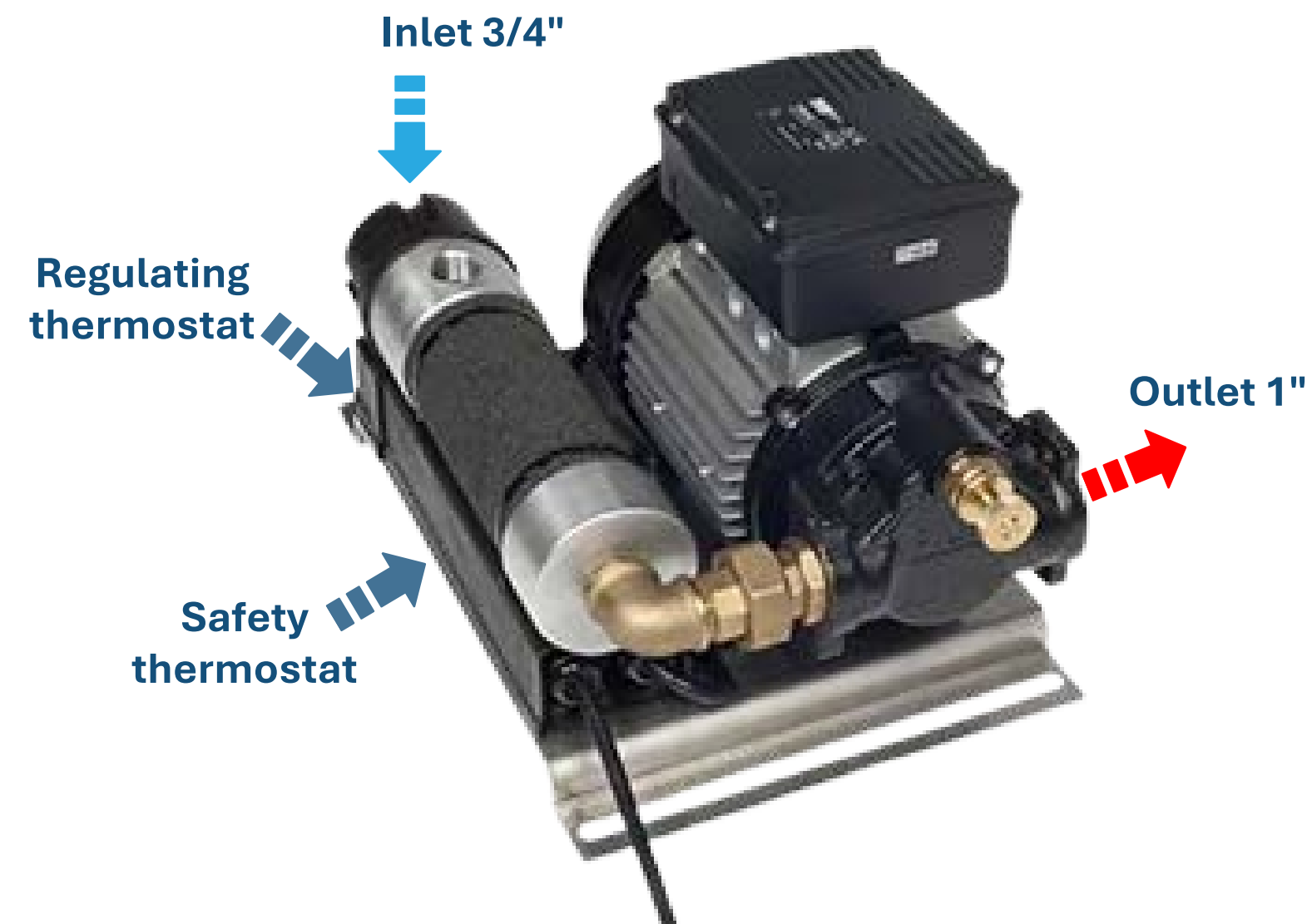
Heating Element	Incoloy800 shielded immersion heater with very low specific power
Voltage	230V
Wattage	1 kW & 2,7 kW

Control & Security Features

Adjustable Thermostat	0°C - 40°C (32°F – 104°F); 0°C – 80°C (32°F – 176°F) rated 25A
Security Thermostat	Manual reset, rated 25A, (60°C / 140°F or 110°C / 230°F)

Circulation Pump

Flow Rate	25l/min at 6 bar
Voltage	230V
Frequency	50Hz, 60Hz
Wattage	Electric Vane Pump 750 W





Calix PH Thermosiphon Coolant Heater

PH500H-2000H Heaters / High Temperature Range

Standard supply with mounting clamp + cable kit

Cooling System

Capacities covered: 4l to >30l

Thermostat

60°C-80°C (+/- 5°C)

Wattage

500W, 750W, 1000W, 1500W, 2000W

PH500L-2000L Heaters / Low Temperature Range

Standard supply with mounting clamp + cable kit

Cooling System

Capacities covered: 4l to >30l

Thermostat

25°C-50°C (+/- 5°C)

Wattage

500W, 750W, 1000W, 1500W, 2000W

Calix





Battery Chargers



Calix

Type	Fully automatic battery chargers
Battery Compatibility	Valve regulated (dry cell) flooded (wet cell) lead-acid batteries
Temperature Performance	-40°C to +60°C
Parallel Load Capacity	Supplies power to active users (e.g. lights, radio) while charging
Cabling System	Specific cable system

Model	Max. Amp.	System Voltage	Protection Class IP
BC60	2A	12V	IP44
BC1205	5A	12V	IP44
BC1207	7A	12V	IP65
BC1207S	7A	12V	IP65
BC1217	17A	12V	IP65
BC1217S	17A	12V	IP65
BC1217XC	17A	12V	IP65
BC1230	30A	12V	IP65
BC1230S	30A	12V	IP65
BC1230XC	30A	12V	IP65
BC2405	5A	24V	IP65
BC2412	12A	24V	IP65
BC2420	20A	24V	IP65





WaveLine Cabin Heaters

Model	Plug	Power Mode	Output
WaveLine 800W kpl	schuko plug	one power mode	800 W at -25°C
WaveLine 1000W kpl (for 120 Vac/60Hz systems)	SI plug	one power mode	1000 W at -25°C
WaveLine 1200W kpl	schuko plug	one power mode	1200 W at -25°C
WaveLine 1200W mini plug	mini plug	one power mode	1200 W at -25°C
WaveLine 1700W kpl	schuko plug	two power modes	1100 W or 1700 W at -25 °C
WaveLine 1700W mini plug	mini plug	two power modes	1100 W or 1700 W at -25°C
WaveLine 2000W kpl	schuko plug	two power modes	900 W or 2000 W at -25°C

Calix

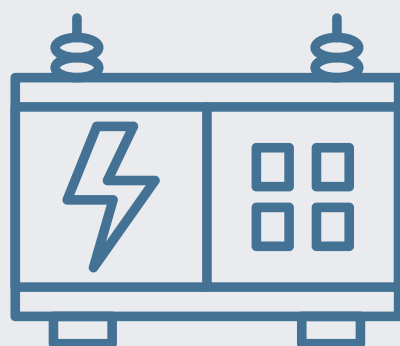




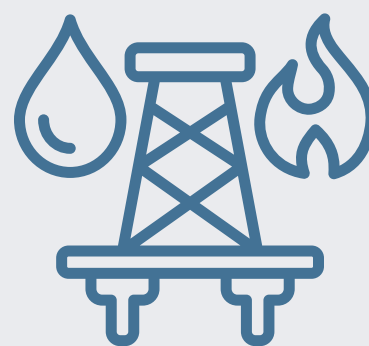
Market Coverage



POWERGEN



INDUSTRY



RAILROAD



AUTOMOTIVE



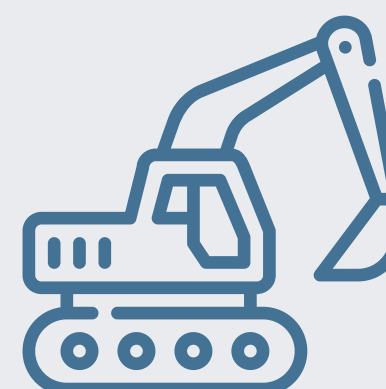
MARINE



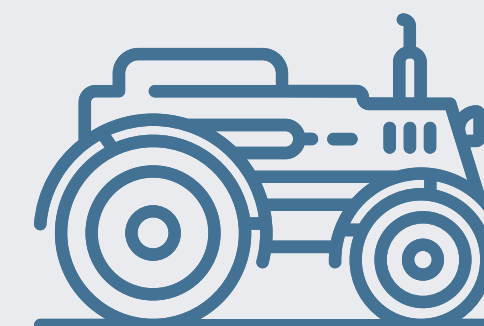
ZERO EMISSIONS



MACHINERY



AGRICULTURE





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