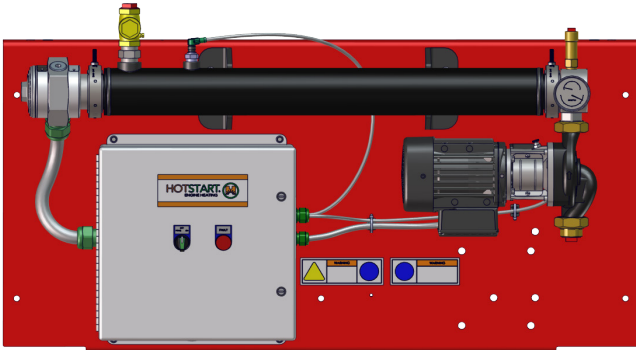


## Single Fluid Heating System **CLP**



Hotstart's CLP is a large capacity coolant heating system designed to maintain optimal temperatures for diesel and gas engines in stationary land power and marine applications.



### ENGINE AVAILABILITY

To improve equipment startability and availability, the CLP maintains a consistent and uniform temperature by circulating heated coolant throughout the engine block – eliminating hot spots and preventing overheating at engine shutdown.



### REDUCED MAINTENANCE & EMISSIONS

When compared to cold engine starts, maintaining optimal temperature during down time lowers NOx emissions at engine startup. Engine heating also eliminates the need for extended idling, reducing overall maintenance expenses.



### COMPLETE PACKAGED DESIGN

Designed as a user-friendly, pre-packaged system, the CLP includes all necessary components. The CLP's remote automatic function and customer interface connections enable it to be easily integrated into any control system.



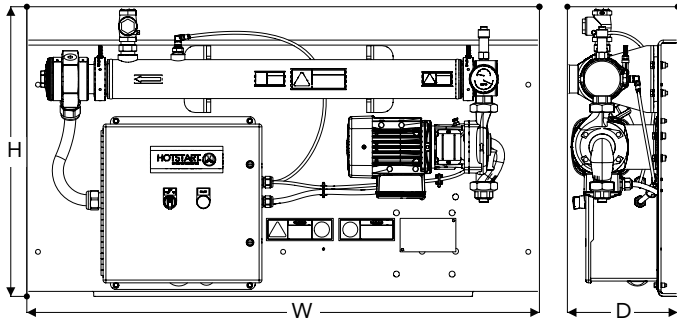
### PREVENTS CONDENSATION

In warmer, humid climates, temperature variation can cause condensation to collect in the cylinders, resulting in starting issues and frequent maintenance. By maintaining temperatures above the dew point, the CLP eliminates the risk of condensation forming inside the heads during cool down periods.

## Model Information

Proper heating system specification is dependent on multiple factors, including heated area dimensions, fluid volumes, ambient conditions, and other considerations. Additional heating system options not listed, including heat power, may be available. For assistance in selecting the heating system for your application, contact Hotstart at 509.536.8660 or [sales@hotstart.com](mailto:sales@hotstart.com).

Typical model shown.  
 Dimensions may vary.



Height (H)	Width (W)	Depth (D)	Weight
23"	46."	9.4"	197 lbs
584 mm	1168 mm	239 mm	89 kg

System	
Phase	single-phase (1 Ø)   three-phase (3 Ø)
Voltage (60Hz)	240V   380V   440V   480V   600V   690V
Voltage (50Hz)	230V   380V   400V   690V
Control Box Ingress	NEMA 4/IP66
Motor Ingress	IP55
Min./Max. Ambient Temp.	-4°F / 104°F (-20°C / 40°C)
Altitude Rating (Motor)	3,300 ft (1,000 m)
Certification	CSA C/US CE-compliant models available

Coolant	
Fluid	Coolant mix (50% water / 50% glycol)
Heat Power	11 kW   12 kW   17 kW   18 kW
	24 kW   30 kW   33 kW   36 kW
Temp. Control	32–176°F (0–80°C), adjustable
Control Set Point	122°F (50°C), factory set
Temp. High-limit	195°F (90°C)
Pump Power	0.75 hp (0.55 kW)
Flow (60 Hz)	49 gpm @ 23 ft H <sub>2</sub> O (185.5 L/min @ 7 m H <sub>2</sub> O)
Flow (50 Hz)	41 gpm @ 20 ft WC (155.2 L/min @ 6 m WC)
Inlet/Outlet	1" NPT
Pressure Relief	100 psi (690 kPa)

Options shown represent typical tested or certified configurations. Additional options or configurations may be available. For assistance with your heating system application, contact Hotstart at 509.536.8660 or [sales@hotstart.com](mailto:sales@hotstart.com).