

Coolant Heating System

CLM



Hotstart's CLM heating system is a coolant preheater, developed to heat marine engines as well as diesel and gas engines for stationary land power, and mining equipment.



CLEAN, FULL POWER STARTS

Marine heating systems allow large-displacement propulsion engines to start clean and deliver full-power right away without a warm-up delay or costly idling. Engine heating in humid marine environments prevents condensation from forming in the cylinders during cool down periods – eliminating starting issues and reducing maintenance.



COMPACT PACKED DESIGN

Designed with usability, reliability and safety in mind, the CLM's compact configuration features customer connections for remote control and system status, pressure relief valve and two PT-100 sensors for accurate temperature monitoring and control.



DESIGN FLEXIBILITY

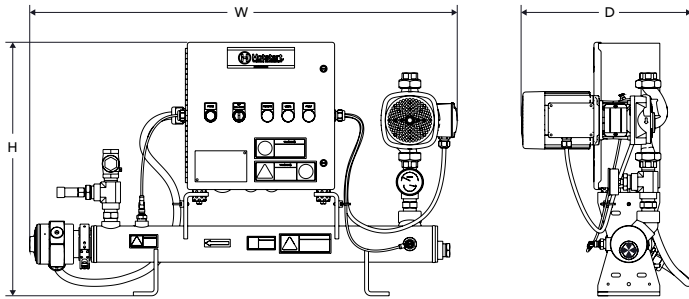
The CLM heater is available in a range of heater power levels, 50 and 60 Hz voltages up to 690 V, and custom interfaces and fluid connections as needed, allowing for easy integration into existing power, control systems, and plumbing.



SUPPORT & SERVICE

Hotstart's offices in North America, Europe and Asia – combined with our partner and dealer network around the globe, decrease delivery times and provide localized service and support.





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 the Hotstart Europe office at europa@hotstart.com.

Height (H)	Width (W)	Depth (D)	Weight
24.5"	41.4"	20.4"	120 lbs
622 mm	1052 mm	518 mm	55 kg

System	
Phase	three-phase (3 Ø)
Voltage (50 Hz)	380 V 400V (380-415 V) 415 V 690V
Voltage (60 Hz)	380 V 440 V 480V 600V 690V
Control Box Ingress	NEMA 4 / IP66
Motor Ingress	IP55
Min./Max. Ambient Temp.	-4 °F / 104 °F (-20 °C / 40 °C)
Certification	CSA C/US CE UKCA Marine Society certification available

Coolant	
Fluid Type	Water Coolant mix (50% water / 50% glycol)
Heat Power	27 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 (50 Hz)	39 gpm @ 25 ft H ₂ O (8.9 m ³ /hr @ 7.6 m H ₂ O)
Flow (60 Hz)	39 gpm @ 33 ft H ₂ O (8.9 m ³ /hr @ 10 m H ₂ O)
Inlet/Outlet	1" NPT standard; ANSI or metric flanges optional
Pressure Relief	100 psi (690 kPa)
Max. Pressure	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 europa@hotstart.com.