

Single Fluid Heating System CLV



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GENERATOR



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HOTSTART's CLV heating system is a coolant preheater, developed to heat locomotive prime movers as well as diesel and gas engines for stationary land power, marine and mining equipment.



Modular CLV model not shown.
Contact HOTSTART for more information.

BENEFITS & FEATURES

IDLE REDUCTION – MADE SIMPLE

The CLV is a complete heating system, circulating heated coolant throughout the engine's water jacket, eliminating unnecessary idling, saving fuel and reducing wear and tear from cold starts.

POWERFUL & RELIABLE

The CLV heating system is capable of heating engines up to 300 L displacement and features accurate PT-100 temperature sensors, allowing users to easily adjust the desired temperature.

EASY INSTALLATION AND OPERATION

The CLV control box is equipped with a convenient side-mounted controls and a removable lid to maximize possible installation locations in locomotives where equipment space is at a premium.

PLATE-MOUNTED OR MODULAR

To further minimize overall footprint, modular CLV systems are available, allowing the pump and tank to be installed near the engine plumbing ports while the control box may be placed in a location convenient for system operator access and monitoring.

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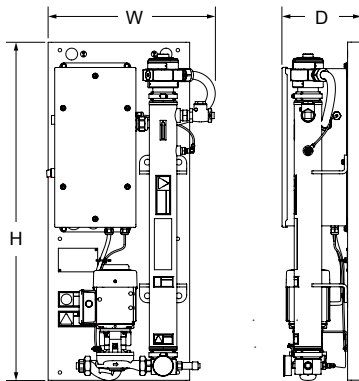
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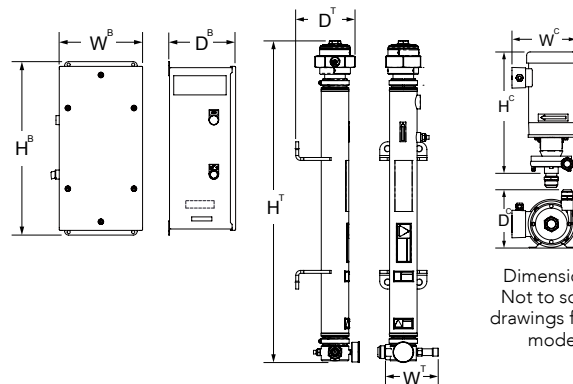
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See part drawings
for additional model
dimensions.



Dimensions may vary.
Not to scale. See part
drawings for additional
model dimensions

Height (H)	Width (W)	Depth (D)	Weight
43"	21.4"	10.1"	175 lbs
1092 mm	544 mm	256 mm	79.5 kg

System				
Phase	single-phase (1 Ø)		three-phase (3 Ø)	
Voltage (60 Hz)	208V	240V	480V	575V
Voltage (50 Hz)	220V	380V	400V	415V
Control Box Ingress	NEMA 4/IP66			
Coolant Motor Ingress	IP54			
Min./Max. Ambient Temp.	-4°F / 104°F (-20°C / 40°C)			
Vibration Specification	Meets IEC 60068-2-64			
Shock Specification	Meets IEC 60068-2-27			
Certification	CE-compliant models available			

Coolant					
Fluid Type	Water	Coolant mix (50% water/50% glycol)			
Heat Power	11 kW	18 kW	24 kW	30 kW	36 kW
Temp. Control	Adjustable, 32–212°F (0–100°C)				
Temp. High-limit	194°F (90°C)				
Pump Power	0.75 hp (0.55 kW)				
Flow (60 Hz)	49 gpm @ 23 ft (11 m³/hr @ 7 m)				
Flow (50 Hz)	41 gpm @ 20 ft (9.3 m³/hr @ 6 m)				
Inlet/Outlet	1" NPT		1" NPT		

Box Height (H ^B)	Box Width (W ^B)	Box Depth (D ^B)	Tank Height (H ^T)	Tank Depth (D ^T)	Tank Width (W ^T)
21.5"	10.3"	8"	41"	8.1"	6.7"
546 mm	262 mm	203 mm	1041 mm	206 mm	171 mm

Coolant Assy. Height (H ^C)	Coolant Assy. Width (W ^C)	Coolant Assy. Depth (D ^C)
18.9"	9.3"	8.8"
479 mm	237 mm	225 mm

ORDERING INFORMATION

CLV Plate-Mounted

Engine Displacement	Power Supply			kW	Amps	Model Number
	V	Hz	Phase			
2000–3000 CID 38–49 L	240	60	1	11	56	CLV11102-00
3000–10000 CID 49–164 L	240	60	3	18	47	CLV31802-00
	480	60	3	24	24	CLV32404-00
10000–15000 CID 164–250 L	480	60	3	30	40	CLV33004-00
	480	60	3	36	45	CLV33604-00

CLV Modular (-M00)

Engine Displacement	Power Supply			kW	Amps	Model Number
	V	Hz	Phase			
2000–3000 CID 38–49 L	240	60	1	11	56	CLV11102-M00
3000–10000 CID 49–164 L	240	60	3	18	47	CLV31802-M00
	480	60	3	24	24	CLV32404-M00
10000–15000 CID 164–250 L	480	60	3	30	40	CLV33004-M00
	480	60	3	36	45	CLV33604-M00

Other wattages available.
Consult the factory..