Dual Fluid Heating System I V









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





BENEFITS & FEATURES

IDLE REDUCTION - COMPLETE HEATING

By heating and circulating both coolant and oil throughout the entire engine, the DLV heating system eliminates unnecessary idling and saves fuel all while ensuring engine lubrication oil is kept at the optimal starting temperature.

POWERFUL & RELIABLE

The DLV heating system is capable of heating engines up to 300 L displacement and features accurate PT-100 temperature sensors. Users can easily adjust the desired temperature for coolant and oil heat independently.

EASY INSTALLATION AND OPERATION

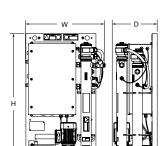
The DLV control box is equipped with a convenient side-mounted controls and a removable lid to maximize possible installation locations in locomotives where equipment space is at a premium.

PLATE-MOUNTED OR MODULAR

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

Dual Fluid Heating System

DLV



See part drawings for additional model dimensions.

Height (H)	Width (W)	Depth (D)	Weight
50"	26.9"	15.9"	310 lbs
1270 mm	683 mm	404 mm	141 kg

	System				
Phase	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/Oil Motor Ingress	IP55 / IP55				
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	24kW 30kW 36kW					
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 WC (185.5 L/min @ 7 m WC)					
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)						

Oil						
Fluid Type	Lubrication oil					
Heat Power	6kW 9kW 12kW					
Temp. Control	Adjustable, 32–212°F (0–100°C)					
Temp. High-limit	300°F (149°C)					
Pump Power	2 hp (1.5 kW)					
Flow	10 gpm (37.9 L/min) 20 gpm (75.7 L/min)					
Inlet/Outlet (10 gpm)	1" NPT					
Inlet/Outlet (20 gpm)	1.5" NPT / 1" NPT					
Pressure Relief	75 psi (525 kPa)					

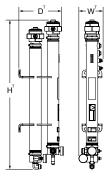
Options shown represent typical tested or certified configurations. Additional options or configurations may be available. For assistance with your heating system application, contact HOTSTART at 509.600.3700 or sales@hotstart.com.

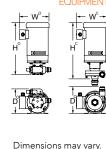












Dimensions may vary. Not to scale. See part drawings for additional model dimensions

Box Height (H ^B)	Box Width (W^B)	Box Depth (D ^B)	Tank Height (H ^T)	Tank Depth (D ^T)	Tank Width (W ^T)
25.5"	16.29"	8"	45.1	13.5"	6.7"
648 mm	414 mm	203 mm	1147 mm	342 mm	171 mm
011.4	0:1.4	0:1.4		C 1 . A	
Oil Assy. Height (H °)	Oil Assy. Width (W ⁰)	Oil Assy. Depth (D ⁰)	Height (H ^c)	Width (W ^c)	Coolant Assy. Depth (D ^c)
		,	,		,

ORDERING INFORMATION

DLV Plate-Mounted

Engine Displacement	Oil Volume	Powe V	r Supply Hz	Coolant kW	Oil kW	Amps	Model Number
9000-12000 CID	50-250 gal	480	60	24	6	41	DLV3240-0604-00
150-200L	190-950L	575	60	24	6	33	DLV3240-0605-00
12000-15000 CID	50–250 gal	400	50	30	9	62	DLV3300-090A-00
		480	60	30	9	52	DLV3300-0904-00
200-250L		575	60	30	9	43	DLV3300-0905-00

DLV Modular (-M00)

Engine Displacement	Oil Volume	Powe	r Supply Hz	Coolant kW	Oil kW	Amps	Model Number
9000-12000 CID	50-250 gal	480	60	24	6	41	DLV3240-0604-M00
150-200L	190-950L	575	60	24	6	33	DLV3240-0605-M00
12000-15000		400	50	30	9	62	DLV3300-090A-M00
CID	50-250 gal	480	60	30	9	52	DLV3300-0904-M00
200-250L	170 7002	575	60	30	9	43	DLV3300-0905-M00

Other wattages available. Consult the factory.

