

CRS COOLANT HEATING SYSTEM

The HOTSTART CRS is an electric idle reduction system that maintains the temperature of the prime mover above 100°F, keeping the locomotive warm and ready to restart. Shutting down an idling locomotive reduces fuel consumption, oil consumption, emissions, noise, engine wear and wet-stacking. A text display screen allows operators to adjust and monitor water temperature and other vital system settings. The CRS is a complete, packaged water heating system with thermocouples, pump and all required controls.

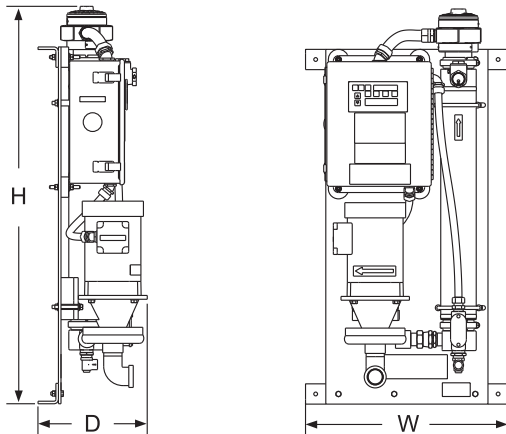


APPLICATION

The CRS was developed to preheat locomotive prime movers as well as diesel and gas engines for stationary land power, marine, large mining and construction equipment.

SPECIFICATIONS

- Heating Fluid: Water/coolant
- Power: 12, 18, and 24kW
- Rated Voltage: 208, 240, 480, 575V (3Ø 60Hz)
380, 400, 415V (3Ø 50Hz)
240V (1Ø, 12kW only)
- Tank Material: Steel
- T-Stat, coolant: Adj. 60° - 160°F (16° - 71°C)
- Hi-Limit Cutout: 200°F (94°C)
- Fluid Capacity: 0.8 gl (3L)
- Pump Power: 1HP 50/60Hz (0.75kW)
- Flow: 40GPM @ 40ft head (9m³/hr @ 1.2 bar)
- Max Pressure: 125PSI (8.61 bar)
- Pressure Loss: 5PSI (0.35 bar)
- Pressure Relief: 90PSI (6.2 bar)
- Ingress Protection: IP54, NEMA 12 & 13
- Inlet/Outlet: 1.25"NPT inlet, 1"NPT outlet



Dimensions & Weight

Height (H)	In (mm)	39.0	(991)
Width (W)	In (mm)	20.0	(508)
Depth (D)	In (mm)	10.7	(272)
Weight	lbs (kg)	158	(72)

FEATURES

- Continuous flow monitoring
- 24VDC relay for auto ON/OFF
- Auxiliary contacts for remote monitoring
- CE compliant to LVD
- Optional E-stop connection



CRS COOLANT HEATING SYSTEM



PART NUMBERS

Engine Size CID	Engine Size Liter	Part Number	kW	Volts	Phase	Hz	Total Amps	HP/GPM
2000 - 3000	50-100	CRS11202-PPB	12	240	1	60	55.9	1hp / 40GPM
		CRS31202-PPB	12	240	3	60	32.5	1hp / 40GPM
4000 - 8000	65-131	CRS31802-PPB	18	240	3	60	47.0	1hp / 40GPM
		CRS31804-PPB	18	480	3	60	24.0	1hp / 40GPM
		CRS31805-PPB	18	575	3	60	20.1	1hp / 40GPM
6000 - 10000	98-164	CRS32402-PPB	24	240	3	60	61.4	1hp / 40GPM
		CRS32404-PPB	24	480	3	60	31.2	1hp / 40GPM
		CRS32405-PPB	24	575	3	60	26.1	1hp / 40GPM

