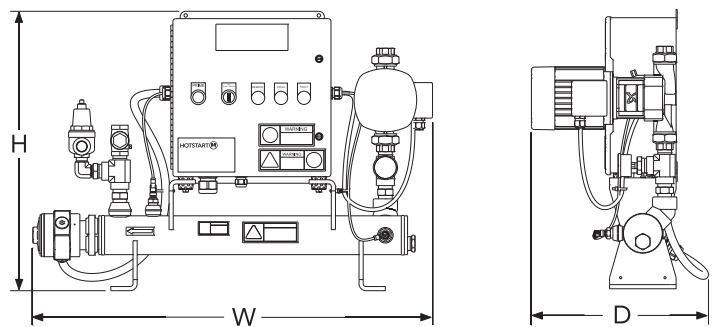
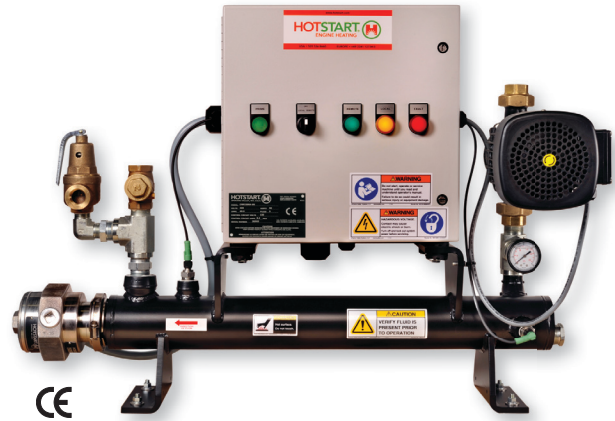


CMM Coolant Heating System

The HOTSTART CMM is a complete, packaged heating system with pump, PT-100 temperature sensors and all required controls. The CMM heats engines up to 200L displacement. Forced circulation of the coolant delivers uniform heating throughout the entire engine, enhances availability, decreases wear and tear from cold starts and extends element life.



APPLICATION

The CMM was developed to pre-heat diesel and gas engines for stationary land power, marine, rail, large mining and construction equipment.

SPECIFICATIONS

- Heating Fluid: Engine coolant (50% glycol/50% water)
- Power: 12 - 24kW
- Rated Voltage: 400V/50Hz/3ph, 440V/60Hz/3ph, 690V/50&60Hz/3ph
- Temperature Controller: Adjustable 32°-212°F (0°-100°C)
- Temperature Setting: 120°F (50°C)
- High Limit Temperature Control: Adj. 32°-212°F (0°-100°C)
- High Limit Temperature Setting: 195°F (90°C)
- Fluid Capacity: 0.8 gal (3.0L)
- Pump Power: 0.5Hp (0.37kW)
- Flow: 30GPM @ 15ft (6.8 m³/hr @ 4.6mWc) for 50Hz
37GPM @ 21ft (8.4 m³/hr @ 6mWc) for 60Hz
- Max Pressure: 125 psi (860 kPa)
- Pressure Loss @ Rated Flow: 3 psi (21 kPa)
- Pressure Relief Valve Setting: 100 psi (690 kPa)
- Inlet Plumbing: 1 inch NPT
- Outlet Plumbing: 1 inch NPT
- Main Control Box Ingress Protection: NEMA 4/IP66
- Motor Ingress Protection: IP55
- Ambient Temp. Rating: -4°- 104°F (-20° - 40°C)

FEATURES

- CE compliant
- Designed and tested to meet DNV Marine Classification
- 24VDC relay for auto ON/OFF
- Auxiliary contacts for remote monitoring

DIMENSIONS & WEIGHT

Height (H)	Width (W)	Depth (D)	Weight
25.2"	36.0"	16.0"	122 lbs.
640mm	915mm	405mm	55.4 kg