

# Thermosiphon Heating Systems

## CB • CL • WL



GENERATOR



HEAVY  
EQUIPMENT



TRUCK  
& BUS



MARINE

HOTSTART's CB, CL and WL Thermosiphon heating systems are coolant preheaters developed to maintain optimal temperatures for diesel and gas engines in stationary land power, marine, construction equipment, and truck applications.



CB heater with  
thermostat shown



CL heater without  
thermostat shown



## BENEFITS & FEATURES

### HEAVY DUTY HEATING

OEMs expect dependable heating for their engines. HOTSTART's Thermosiphon Tank Heaters are the industry standard for consistent, reliable coolant heating for stationary power, equipment, marine and truck applications.

### PRECISE HEATING CONTROL

Keeping critical fluids heated is key to easy engine starts regardless of ambient temperature. The CB, CL and WL heaters come with or without flow-through thermostats for precise heat control. The heaters can be configured with fixed or adjustable thermostats to best meet your heating needs.

### SAFE AND EASY OPERATION

Pressure die-cast aluminum tank construction means HOTSTART heaters are built to last. Each unit includes a hi-limit safety thermostat rated for 205 °F (95 °C) ensuring safe operation day to day, year after year.

### EQUIPMENT MANUFACTURERS SOLUTION

The CB, CL and WL heaters are ideal for OEM specifications requiring a wide range of heat power and phase options that can be hard wired into existing power systems.

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HEAVY EQUIPMENT

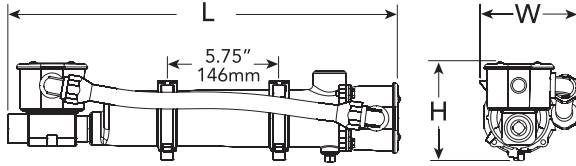


TRUCK & BUS

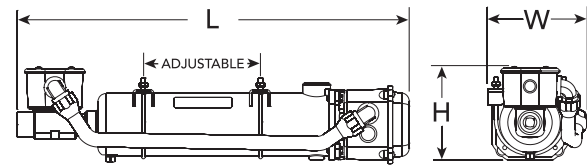


MARINE

CB Heater with thermostat shown



CL / WL Heater with thermostat shown



| CB Model   |           |            |         |
|------------|-----------|------------|---------|
| Length (L) | Width (W) | Height (H) | Weight  |
| 20.1"      | 5.1"      | 5.2"       | 6.9 lbs |
| 510 mm     | 129 mm    | 132 mm     | 3 kg    |

| CL / WL Models |           |            |        |
|----------------|-----------|------------|--------|
| Length (L)     | Width (W) | Height (H) | Weight |
| 23.5"          | 6.2"      | 5.8"       | 10 lbs |
| 597 mm         | 158 mm    | 147 mm     | 4.5 kg |

| CB / CL System          |   |
|-------------------------|---|
| Phase                   | single-phase (1 Ø)                      |
| Voltage                 | 120V   208V   240V   277V   380V   480V |
| Ingress                 | NEMA 4                                  |
| Min./Max. Ambient Temp. | -4–104 °F (-20–40 °C)                   |
| Certification           | UL/C-US listed, CE-compliant            |

| WL System               |                                  |
|-------------------------|----------------------------------|
| Phase                   | three-phase (3 Ø)                |
| Voltage                 | 208V   240V   400V   480V   575V |
| Ingress                 | NEMA 4                           |
| Min./Max. Ambient Temp. | -4–104 °F (-20–40 °C)            |
| Certification           | CE-compliant                     |

| CB / CL Coolant  |                              |                                    |
|------------------|------------------------------|------------------------------------|
| Fluid Type       | Water                        | Coolant mix (50% water/50% glycol) |
| CB Heat Power    | 1.5kW                        | 2kW   2.5kW                        |
| CL Heat Power    | 3kW                          | 4kW   5kW                          |
| Temp. Control    | Fixed, 100–120 °F (38–49 °C) |                                    |
| Temp. High-limit | 205 °F (96 °C)               |                                    |
| Max. Pressure    | 125 psi (860 kPa)            |                                    |
| Inlet/Outlet     | 1" NPT                       |                                    |

| WL Coolant       |                              |                                    |
|------------------|------------------------------|------------------------------------|
| Fluid Type       | Water                        | Coolant mix (50% water/50% glycol) |
| WL Heat Power    | 2.5kW                        | 4kW   5kW                          |
| Temp. Control    | Fixed, 100–120 °F (38–49 °C) |                                    |
| Temp. High-limit | 205 °F (96 °C)               |                                    |
| Max. Pressure    | 125 psi (860 kPa)            |                                    |
| Inlet/Outlet     | 1" NPT                       |                                    |

| Temperature Range               |                |
|---------------------------------|----------------|
| ON                              | OFF            |
| 80 °F (27 °C)                   | 100 °F (38 °C) |
| 100 °F (38 °C)                  | 120 °F (49 °C) |
| 120 °F (49 °C)                  | 140 °F (60 °C) |
| Adjustable 90–130 °F (32–54 °C) |                |

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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](mailto:sales@hotstart.com).

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