

# Dual Heating System with Programmable Logic Control

## Coolant/Lube Oil Heating Systems

Engine Displacement (In Cubic Inches)	Oil Volume	MODEL NUMBER	Water KW	Oil KW	Volts	Ø	Total Amps	Water HP/GPM	Oil HP/GPM
4,000	100	DH3180/0602	18	6	240	3	63.9	3/4 / 40	1/10
TO	TO	DH3180/0604	18	6	480	3	35.9	3/4 / 40	1/10
8,000	250	DH3180/0605	18	6	575	3	28.8	3/4 / 40	1/10
8,000	100	DH3240/0604	24	6	480	3	43.1	3/4 / 40	1/10
TO	TO	DH3240/0605	24	6	575	3	34.9	3/4 / 40	1/10
12,000	250								
10,000	200	DH3300/0604	30	6	480	3	54.0	3/4 / 40	1/10
TO	TO	DH3300/0605	30	6	575	3	43.9	3/4 / 40	1/10
15,000	400								
10,000	200	DH3300/0904	30	9	480	3	61.2	3/4 / 40	2/20
TO	TO	DH3300/0905	30	9	575	3	50.0	3/4 / 40	2/20
15,000	400								

Kim Hotstart's dual heating system heats and circulates coolant and lube oil throughout the entire engine and cooling system. The system features Programmable Logic Control to ensure fail-safe, reliable engine heating with fewer mechanical parts. Diagnostic indicators monitor vital operations to alert operators of potential trouble with the heating system. An optional modem is available for remote monitoring. The system is designed to accommodate horizontal mounting configurations only.

Optional non-standard voltages include 208, 277, 400, and 415

## Features of Programmable Logic Control (PLC)

- Eliminates both mechanical flow switches.
- Eliminates time delay relays in control box.
- Senses flow by temperature measurement at both ends of the heating tank.
- Allows water and oil temperatures to be set to customer's specifications.
- Allows water and oil temperatures to be viewed on the text display.
- Operating temperature of both fluids can be changed in the field.

Diagnostic monitoring via the text display:

- High temperature of both fluids when element is energized.
- Low temperature of both fluids.
- Low flow and/or no flow of both fluids.
- Thermocouple module and thermocouples.
- Motor protective switch of both motors.



# SYSTEM DRAWINGS

## Typical *DH* System FEATURES AND DIMENSIONS

