



high volume industrial water heater

Industry Leading Heating Efficiency and Fuel Savings

01 tank specifications & features

- Skidded heater and components **22' long** and **58" wide**, weight is 12,000lbs.
- Tank components and all piping manufactured to Canadian Welding Bureau standards.
- Fully engineered water flow simulation analysis (spray bars and jacket water) for optimal heating efficiency and fuel savings.
- Slim design for optimizing integration space and maximizing accessibility to heater components.
- Proprietary exhaust heat capture system, easy service.
- Proprietary mist extractor.
- Stack water filter and conveniently mounted blow/drain valve.

- Proprietary spray bar design for simple access and inspection/cleanout.
- 2 sight glasses for internal heater flame/water viewing.
- Easy access tank manway and jacket water cleanout ports.
- Non-pressurized system.
- No regulator inspections or operating tickets necessary.

flow rates	temperature rise	
	750 gpm	36°C
800 gpm	34°C	61°F
900 gpm	31°C	57°F

02 burner specifications

- 25MM btu Vitotherm high efficiency tri-fuel burner - diesel, propane, natural gas, instant fuel switching.
- Autoflame control package.
- Quiet operation, no air compressor required for combustion, 100% outside air ducting.
- Easy serviceability, swing away hinged blower housing to access combustion components.

- 2 supplied gas trains, (propane and natural gas) compact and mounted on top of heater tank.
- Electronic spark ignition.
- Full safety shutdowns.
- HMI digital display - easy operation, digital combustion curve program uploaded and easily adjustable by technicians, backup program kept on file.

03 water pump specification & controls

- 2 operating pumps - 20hp suction & 30hp discharge Berkeley long life centrifugal, VFD controlled, variable output.
- Capable of flow rates up to 950 gpm.
- 2-4" discharge water camlocks, manual butterfly valves on each.
- 2-6" suction water camlocks, manual butterfly valves on each.
- Proprietary built in suction priming/tank draining system - 2" T&E gear pump, automated with electric butterfly valves (no external prime or drain system needed).
- Pressure transducer tank level control for consistent operation.
- High tank level sensor and suction water emergency slammer valve eliminates flooding.
- HMI digital display and control screen - designed for simple operation, minimal training, operations logging and reporting, and simple diagnostics/troubleshooting.
- Electric water flow control valves and meters, no air required for heater operation.
- Full safety shutdowns.



04 integration options

- Robust 40 ft hi-cube intermodal sea container, customized, insulated lining and painted exterior.
- Integrated office room with desk.
- Generator/electrical room lined with sound attenuation foam walls and ceiling.
- Generous exterior worksite LED lighting, internal 12v and 110v LED lighting.
- Packaged and ready to be attached on a standard 40' intermodal hi-cube container trailer chassis (supplied by customer).
- Reasonable footprint on lease, with maneuverability. Other integration solutions also available.

05 generator & air compressor

- Reliable Isuzu engine with Stamford generator, 120Kw 150Kva prime power.
- Integrated 454 litre diesel fuel tank (approx. 30hr run time) c/w quick switch valve for external fuel tank.
- 60gal vertical tank c/w 240v air compressor for water hose blow out.