

COMMERCIAL TANKLESS ELECTRIC WATER HEATERS

Fluid heating for commercial and industrial applications



PRECISE. RELIABLE. DURABLE. TANKLESS.

LAARS[®]
Heating Systems Company

POWERED BY **K** KELTECH[®]



COMMERCIAL TANKLESS ELECTRIC WATER HEATING DONE RIGHT.

Laars' tankless electric water heaters are the recognized leader in commercial-grade tankless electric water heating systems. Whether your application is commercial or industrial, we have a tankless electric water heating solution that you can rely on. With unmatched quality and durability, our tankless electric water heaters are the fastest, most reliable, and most efficient tankless water heaters in the industry.

Laars tankless heaters are offered in a full line of products for an extensive range of applications. Powered by Keltech® tankless water heaters have been on the market for over 30 years and are now an integral part of Laars' hot water solutions.

- **Save Energy** Ours tankless heaters only heat water when needed. And, the innovative controller is fully modulating so you only use the actual kW needed, not full power or stages.
- **Save Space** Our tankless water heaters only require 3 square feet (.3 square meters) of space to generate 491,000 BTU/hr.
- **Simple Installation** Requires only one electrical connection and water. No pumps, no external fusing, and no design needs to be considered externally – it's all built into the heater.
- **Built to be the Best®** Built to the toughest standards with the highest quality materials and engineered to meet the world's most demanding applications.



Laars Heating Systems is proud to be an American manufacturer for more than 75 years.



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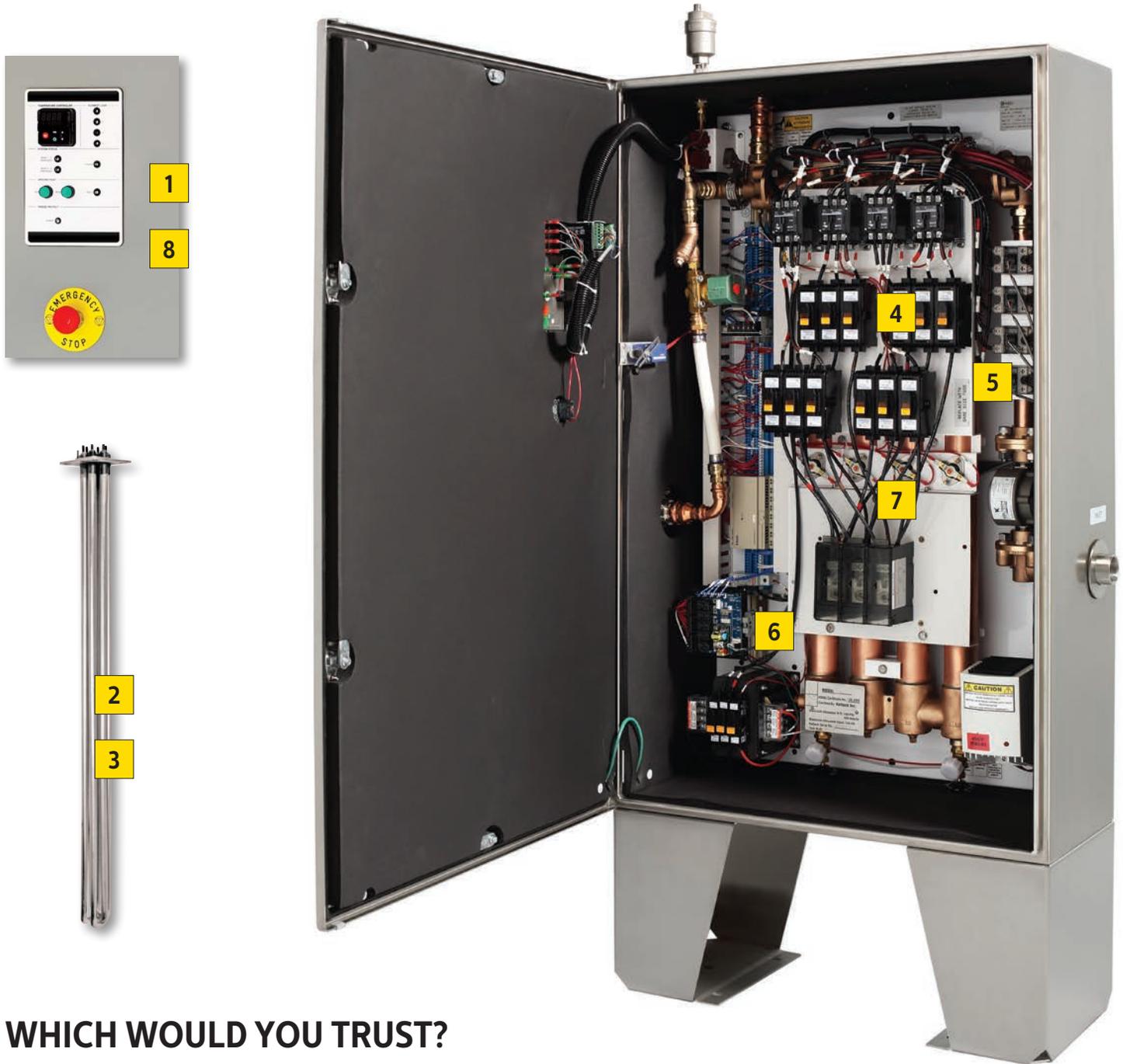
THE POWERED BY KELTECH® ADVANTAGE

- 1 PID Temperature Controller** Laars heaters hold temperature as demand changes regardless of incoming ground water temperature.
- 2 Incoloy 800 Elements** Recognized for protection, durability and resistance to scaling from hard water.
- 3 Low Watt Density Element** Extremely low wattage is applied per square inch of the element for improved heat transfer and reduced scaling which results in a longer lasting element.
- 4 Electrical Design** Requires only one service feed per unit. Includes internal fusing as standard.
- 5 Solid State Relays** Silent switching with fast response works in conjunction with the PID to infinitely modulate and add to the life of the heater.
- 6 Auto Reset High Limit** Prevents overshoot or scalding. When temperature limit is reached, the unit will power down a bank of elements; when the temperature drops back down, power is restored.
- 7 Bi-metal Manual Reset** Prevents overshoot or scalding on all Laars heaters. When temperature limit is reached, the fuse trips and must be manually reset before power can be restored to the elements.
- 8 Simple Touch Operation** Digital screen with touch pad for easy operation shows set point and output temperature.
 - **Low Flow Activation** Flow activations available down to .15 GPM (.57 L-Min).
 - **Minimal Pressure Drop** Large internal passageways ensure best-in-industry low pressure drops and make booster pumps unnecessary.
 - **Durable Plumbing Assembly** All units consist of brazed joints, a brass and copper heat exchanger, industrial grade flow switches and brass directional changes. All units are pressure tested to meet ASME minimum standards.
 - **Independent Safeties** All safeties are independent and redundant of each other. Three-tier anti-scald protection ensures user safety.
 - **Recirculation capable** Accurate and long lasting tankless heating, ideal for recirculation systems.

CERTIFICATIONS

- **Lead-Free** Brass/Copper heat exchangers certified to NSF/ANSI 372.
- **Third-Party Certified** ETL listed to UL499, C-ETL listed to CSA-C22.2 No.88.
- **ASME Certified** Laars N Series units (63 kW and over) are the only electric tankless water heaters National Board certified to use the HLW stamp.
- **Electrical Compliance** Compliant to NEC/NFPA 70 and Canadian Electrical Code C22.1





WHICH WOULD YOU TRUST?

Ours tankless heaters' brass/copper heat exchangers are high quality and have a large capacity to heat water on demand. Inside each exchanger is a heavy duty, low watt density Incoloy 800 element. Other products in this class have elements that resemble coiled paper clip wire. The Incoloy 800 elements are recognized for their protection, durability, and resistance to scaling in hard water. Which would you trust to meet the demands of your application?



COMMERCIAL TANKLESS ELECTRIC WATER HEATERS SELECTION & SIZING GUIDELINES

SERIES:	COMMERCIAL	LIGHT INDUSTRIAL	LARGE INDUSTRIAL
	H	G & F	N



kW Range	5 - 25 kW	18 - 50 kW	36 - 144 kW
Standard Flow Range	0.5 - 7 GPM (1.9 - 26.5 L-Min)	0.75 - 15 GPM (2.8 - 57 L-Min)	1.5 - 50 GPM (5.7 - 189 L-Min)
Standard Voltages	Single Phase: 208V, 240V, 277V, 480V 3-Phase Delta: 208V, 240V, 480V	3-Phase Delta: 480V, 600V	3-Phase Delta: 480V, 600V
Standard Temperature Range 40 - 160°F (4 - 71°C)	●	●	●
Incoloy 800 elements	●	●	●
Low watt density element	●	●	●
PID temperature controller	●	●	●
Solid state relays		●	●
Minimal pressure drop	●	●	●
Auto reset high limit switch		●	●
Bi-metal manual reset	●	●	●
Low flow activation	○	○	
LED touch pad operation	●	●	●
Standard NEMA enclosure	NEMA 4 25 kW	NEMA 4	NEMA 4
NEMA 4X	○	○	○
Wall-mounted	●	●	
Floor-mounted		○	●
Building Management System Integration	○	○	○
Remote Emergency Stop			○
High temp package	○	○	○
Freeze protection -20°F (-31°C)			○
Freeze protection -30°F (-34°C)			○
De-ionized (ultra-pure) water heating	○	○	○
Explosion proof purge system (C1D2)		○	○
Integral ground fault		○	○
Internal fuse disconnect		○	○
NSF Lead-free	●	●	●
ETL listed to UL499	●	●	●
ETL listed to UL50E		○	○
cETL listed to CSA-C22.2 No. 88	●	●	●
NFPA 496		○	○
ASME certified (63 kW & over)			○

● Standard Feature ○ Optional Feature

1

Calculate Delta T (ΔT Rise in Temperature):
Desired Set Point - Coldest Groundwater Temperature = ΔT

2

Maximum flow for application

3

Select the kW required for application by using the table below or calculate:
Peak Demand (GPM) x ΔT x .1465 = kW

4

Determine the voltage and phase available on site

5

Select Tankless series with the kW rating that meets the flow rate and ΔT for your application.

kW Recommendation

TEMPERATURE Δ°F (°C)

FLOW GPM L-MIN	TEMPERATURE Δ°F (°C)																											
	10° (6°)	15° (8°)	20° (11°)	25° (14°)	30° (17°)	35° (19°)	40° (22°)	45° (25°)	50° (28°)	55° (31°)	60° (33°)	65° (36°)	70° (39°)	75° (42°)	80° (44°)	85° (47°)	90° (50°)	95° (53°)	100° (56°)	105° (58°)	110° (61°)	115° (64°)	120° (67°)	125° (69°)	130° (72°)	135° (75°)	140° (78°)	
0.15	0.6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
0.50	1.9	5	5	5	5	5	5	5	5	5	5	5	6	10	6	10	10	10	10	10	10	10	10	10	10	10	10	10
0.75	2.8	5	5	5	5	5	5	5	6	10	10	10	10	10	10	10	10	15	15	15	15	15	15	15	15	15	18	18
1	3.8	5	5	5	5	6	6	10	10	10	10	10	10	15	15	15	15	15	15	18	18	18	18	25	25	25	25	25
1.5	5.7	5	5	5	6	10	10	10	10	15	15	15	15	18	18	18	25	25	25	25	25	25	36	36	36	36	36	36
2	7.6	5	5	6	10	10	10	15	15	15	18	18	25	25	25	25	25	36	36	36	36	36	36	36	36	50	50	50
3	11.3	5	10	10	15	15	18	18	25	25	25	36	36	36	36	36	50	50	50	50	50	50	50	50	54	54	63	63
4	15.1	6	10	15	15	18	25	25	36	36	36	36	50	50	50	50	50	54	63	63	63	63	72	72	72	108	108	108
5	18.9	10	15	15	25	25	36	36	36	36	50	50	50	50	54	63	63	63	72	72	108	108	108	108	108	108	108	108
6	22.7	10	15	18	25	36	36	36	50	50	50	54	63	63	72	72	108	108	108	108	108	108	108	108	108	110	126	126
7	26.5	10	18	25	36	36	36	50	50	54	63	63	72	72	108	108	108	108	108	108	108	108	126	126	126	128	144	144
8	30.2	15	18	25	36	36	50	50	54	63	72	72	108	108	108	108	108	126	126	126	144	144	144	-	-	-	-	
9	34.0	18	25	36	36	50	50	54	63	72	108	108	108	108	108	108	126	126	126	144	144	-	-	-	-	-	-	
10	37.8	18	25	36	50	50	54	63	72	108	108	108	108	108	108	126	126	126	144	144	-	-	-	-	-	-	-	
12	45.4	18	36	36	50	54	63	72	108	108	108	108	126	126	144	144	-	-	-	-	-	-	-	-	-	-	-	
15	56.7	25	36	50	63	72	108	108	108	126	126	144	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	75.6	36	50	63	108	108	108	126	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	94.5	54	63	108	108	126	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	113.4	54	72	108	126	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	132.3	54	108	108	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	151.2	63	108	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	170.1	72	108	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50	189.0	108	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

 H Series	5 - 25 kW
 G Series	18 - 25 kW
 F Series	36 - 50 kW
 N Series	36 - 144 kW

Note: To select the appropriate Series for dual-colored options, defer to your power and pressure drop requirements.

COMMERCIAL WATER HEATERS

H SERIES



kW Range
5 - 25 kW



Standard Flow Range
0.5 - 7 GPM (1.9 - 26.5 L-Min)



Standard Voltages
208V, 240V, 277V, 480V Single Phase
208V, 240V, 480V 3-Phase Delta



Features

- 17,000 - 85,304 BTU/hr
- Low flow activation options at .15 and .25 GPM (0.6 and 0.9 L-Min)
- Bi-metal manual reset
- Liquid-cooled triac switches
- Wall-mounted
- 3/4" (19 mm) connections
- ETL certified to UL Standards

Key Markets

- Commercial buildings
- Schools
- Hospitals
- Restaurants
- Science labs
- Sports facilities
- Lodging
- Transportation
- Marine
- Parks and recreation

Applications

- Handwashing
- Mop sinks
- Kitchen booster
- Hydronics
- Remote locations
- Pre-heating for stationary applications or mobile trailers
- Recirculation
- Sanitization
- Potable water distribution

Recommended kW: H Series (kW): 5, 6, 10, 15, 18, 25

TEMPERATURE Δ °F (°C)

FLOW	GPM	L-MIN	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°	140°
			(6°)	(8°)	(11°)	(14°)	(17°)	(19°)	(22°)	(25°)	(28°)	(31°)	(33°)	(36°)	(39°)	(42°)	(44°)	(47°)	(50°)	(53°)	(56°)	(58°)	(61°)	(64°)	(67°)	(69°)	(72°)	(75°)	(78°)
	0.15	0.6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	0.25	0.9	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6
	0.50	1.9	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10
	0.75	2.8	5	5	5	5	5	5	5	5	6	6	10	10	10	10	10	10	10	15	15	15	15	15	15	15	15	15	18
	1	3.8	5	5	5	5	5	6	6	10	10	10	10	10	10	15	15	15	15	15	15	18	18	18	18	25	25	25	25
	1.5	5.7	5	5	5	6	10	10	10	10	15	15	15	15	18	18	18	25	25	25	25	25	25	-	-	-	-	-	-
	2	7.6	5	5	6	10	10	10	15	15	15	18	18	25	25	25	25	25	-	-	-	-	-	-	-	-	-	-	-
	3	11.3	5	10	10	15	15	18	18	25	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	15.1	6	10	15	15	18	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	18.9	10	15	15	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	22.7	10	15	18	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	26.5	15	18	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

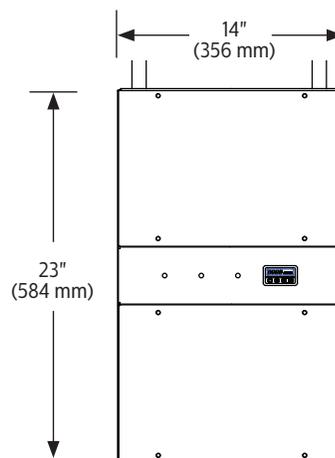
Sizing for the proper flow rate is important. If the temperature rise required is higher than shown, multiple H units can be installed or a different series is available.

PRESSURE DROP

GPM	1	2	3	4	5	6	7
PSI	0	2	4	8	12	17	24
L-MIN	3.8	7.6	11.3	15.1	18.9	22.7	26.5
BAR	0.0	0.1	0.3	0.5	0.8	1.2	1.6

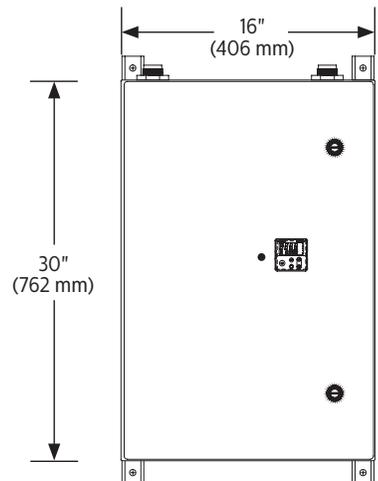
H05 - 18 KW

Standard Enclosure



H25 KW

Standard NEMA 4 Enclosure



Options may change dimensions. Check technical data for additional dimensions.

LIGHT INDUSTRIAL WATER HEATERS

G & F SERIES



kW Range

18 - 50 kW



Standard Flow Range

0.75 - 15 GPM (2.8 - 56.8 L-Min)



Standard Voltages

480V, 600V 3-Phase Delta



Features

- 85,000 - 170,000 BTU/hr
- Low flow activation options at 0.25 and 0.5 GPM (0.95 and 1.9 L-Min)
- Bi-metal manual reset
- Auto reset high limit switch
- Liquid-cooled solid state relays on G Series
- Fan-cooled solid state relays on F Series
- NEMA 4 enclosure
- Wall- or floor-mounted
- 3/4" (19 mm) connections
- ETL and cETL certified to UL and CSA Standards

Key Markets

- Pharmaceuticals
- Food and beverage
- Waste water treatment plants
- Municipal buildings
- Manufacturing
- Zoos
- Lodging
- Transportation
- Marine

Applications

- Reverse osmosis pre-and post-heating
- Train and truck washing
- Chemical process heating direct/indirect
- Heating de-ionized water
- Heating jacketed equipment
- Potable water distribution
- Heating consumables requiring FDA approval
- Washdown (parts, clean room, sensitive materials, manufacturing)
- Snow melt
- Classified areas
- Recirculation
- Laundry

Recommended kW: **G Series (kW): 18, 25** **F Series (kW): 36, 50**

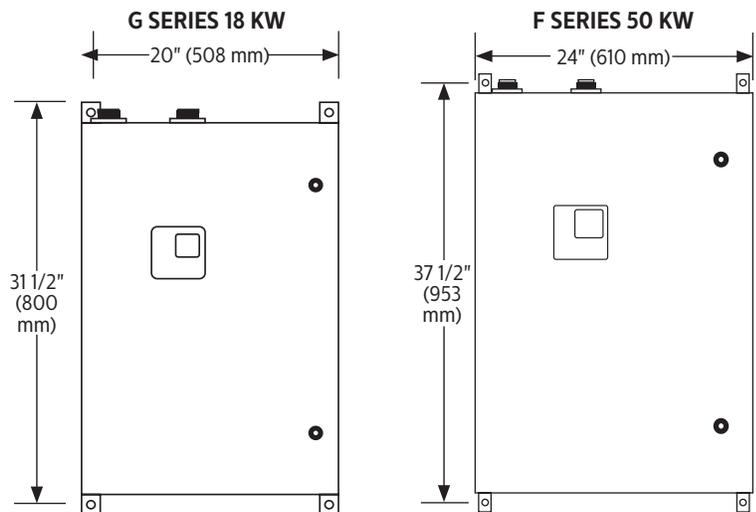
TEMPERATURE Δ °F (°C)

FLOW	GPM	L-MIN	TEMPERATURE Δ °F (°C)																											
			10° (6°)	15° (8°)	20° (11°)	25° (14°)	30° (17°)	35° (19°)	40° (22°)	45° (25°)	50° (28°)	55° (31°)	60° (33°)	65° (36°)	70° (39°)	75° (42°)	80° (44°)	85° (47°)	90° (50°)	95° (53°)	100° (56°)	105° (58°)	110° (61°)	115° (64°)	120° (67°)	125° (69°)	130° (72°)	135° (75°)	140° (78°)	
	0.75	2.8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	1.0	3.8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	25	25	25	25
	1.5	5.7	18	18	18	18	18	18	18	18	18	18	18	18	18	18	25	25	25	25	25	25	25	25	36	36	36	36	36	36
	2	7.6	18	18	18	18	18	18	18	18	18	18	18	18	25	25	25	25	25	36	36	36	36	36	36	36	36	50	50	50
	3	11.3	18	18	18	18	18	18	18	18	25	25	25	36	36	36	36	36	50	50	50	50	50	50	-	-	-	-	-	-
	4	15.1	18	18	18	18	18	25	25	36	36	36	36	50	50	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-
	5	18.9	18	18	18	25	25	36	36	36	50	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	22.7	18	18	18	25	36	36	36	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	26.5	18	18	25	36	36	36	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	30.2	18	18	25	36	36	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	34.0	18	25	36	36	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10	37.8	18	25	36	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15	56.8	25	36	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sizing for the proper flow rate is important. If the temperature rise required is higher than shown, multiple G or F Series units can be installed or a different series is available.

PRESSURE DROP

GPM	1	2	3	4	5	6	8	10
C1N PSI	0	1	2	3	4	5	7	10
C2N PSI	1	2	3	4	5	6	8	10
L-MIN	3.8	7.6	11.3	15.1	18.9	22.7	30.2	37.8
C1N BAR	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7
C2N BAR	0.0	0.1	0.2	0.3	0.3	0.4	0.6	0.7



Options may change dimensions. Check technical data for additional dimensions.

LARGE INDUSTRIAL HEATERS

N SERIES



Features

- 122,800 - 491,300 BTU/hr
- Bi-metal manual reset
- Auto reset high limit switch
- Door cutoff switch
- Emergency stop button
- Liquid-cooled solid state relays
- NEMA 4 enclosure
- Floor-mounted
- 1-1/4" (32 mm) connections
- ETL and cETL certified to UL and CSA Standards

Key Markets

- Mining
- Breweries/wineries
- Petro/chemical
- Food and beverage
- Agriculture/livestock
- Lumber/pulp/paper mills
- Waste water treatment plants
- Power generation
- Nuclear

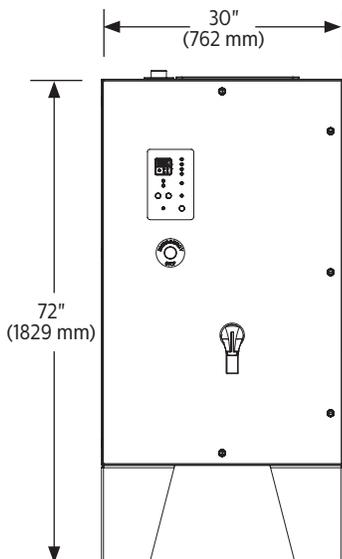
Applications

- Scrubbers
- Nuclear reactor washdown
- Classified areas
- Snow melt
- Heating consumables
- Heating jacketed equipment
- Bio-diesel production
- Fracking injectables
- Stadium/Ice arena resurfer filling
- Chemical process heating direct/indirect
- Washdown (parts, vats, containers, large equipment)

PRESSURE DROP

GPM	1.5	2	3	4	5	6	8	10	15	20	25	30	35	40	45	50
36 - 63 KW PSI	0.0	0.0	0.1	0.2	0.2	0.3	0.6	0.9	2.0	3.6	5.5	7.9	10.8	14.0	17.6	21.7
72 - 144 KW PSI	0.0	0.0	0.1	0.2	0.3	0.4	0.8	1.2	2.6	4.7	7.3	10.4	14.2	18.5	23.3	28.7
L-MIN	5.7	7.6	11.3	15.1	18.9	22.7	30.2	37.8	56.7	75.6	94.5	113.4	132.3	151.2	170.1	189
36 - 63 KW BAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.5	0.7	1.0	1.2	1.5
72 - 144 KW BAR	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.3	1.6	2.0

N SERIES 126 KW



Options may change dimensions. Check technical data for additional dimensions.

ASME Certification: Commercial Tankless units 63kW and over are the only electric tankless water heaters registered with the National Board and certified with the HLW stamp





kW Range
36 - 144 kW



Flow Range
1.5 - 50 GPM (5.7 - 189 L-Min)



Standard Voltages
480V, 600V 3-Phase Delta

Recommended kW: N Series (kW): 36, 54, 63, 72, 108, 126, 144

TEMPERATURE Δ

		10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°	140°		
		(6°)	(8°)	(11°)	(14°)	(17°)	(19°)	(22°)	(25°)	(28°)	(31°)	(33°)	(36°)	(39°)	(42°)	(44°)	(47°)	(50°)	(53°)	(56°)	(58°)	(61°)	(64°)	(67°)	(69°)	(72°)	(75°)	(78°)		
FLOW	1.5	5.7	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36		
	2	7.6	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
	3	11.3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	4	15.1	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	5	18.9	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	6	22.7	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	7	26.5	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	8	30.2	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	9	34.0	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	10	37.8	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
12	45.4	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
15	56.7	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
20	75.6	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
25	94.5	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
30	113.4	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
35	132.3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
40	151.2	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
45	170.1	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
50	189.0	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	

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