

Section 1

Industrial Tank Style Coolant Heaters



Small Tank Heaters

TPS Model
Single Phase
500-2000 Watts
120V & 240V

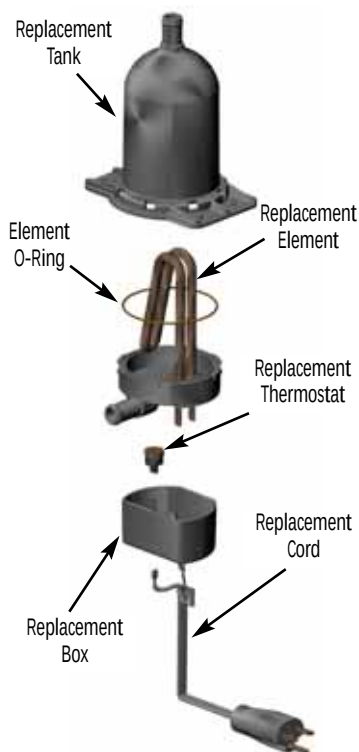


Ambient Above -20° F	Ambient Below -20° F	Model Number	Volts	Watts	Phase	Amps	Thermostat Range	
							On	Off
150 Cubic Inch or Less	150 Cubic Inch or Less	TPS051GT8-000	120	500	1	4.2	80°F	100°F
		TPS051GT10-000	120	500	1	4.2	100°F	120°F
		TPS051GT12-000	120	500	1	4.2	120°F	140°F
		TPS052GT8-000	240	500	1	2.1	80°F	100°F
		TPS052GT10-000	240	500	1	2.1	100°F	120°F
		TPS052GT12-000	240	500	1	2.1	120°F	140°F
350 Cubic Inch or Less	200 Cubic Inch or Less	TPS101GT8-000	120	1000	1	8.4	80°F	100°F
		TPS101GT10-000	120	1000	1	8.4	100°F	120°F
		TPS101GT12-000	120	1000	1	8.4	120°F	140°F
		TPS102GT8-000	240	1000	1	4.2	80°F	100°F
		TPS102GT10-000	240	1000	1	4.2	100°F	120°F
		TPS102GT12-000	240	1000	1	4.2	120°F	140°F
350 — 500 Cubic Inch or Less	200 — 300 Cubic Inch or Less	TPS151GT8-000	120	1500	1	12.5	80°F	100°F
		TPS151GT10-000	120	1500	1	12.5	100°F	120°F
		TPS151GT12-000	120	1500	1	12.5	120°F	140°F
		TPS152GT8-000	240	1500	1	6.3	80°F	100°F
		TPS152GT10-000	240	1500	1	6.3	100°F	120°F
		TPS152GT12-000	240	1500	1	6.3	120°F	140°F
500 — 700 Cubic Inch or Less	300 — 400 Cubic Inch or Less	TPS181GT8-000	120	1800	1	15	80°F	100°F
		TPS181GT10-000	120	1800	1	15	100°F	120°F
		TPS181GT12-000	120	1800	1	15	120°F	140°F
		TPS202GT8-000	240	2000	1	8.3	80°F	100°F
		TPS202GT10-000	240	2000	1	8.3	100°F	120°F
		TPS202GT12-000	240	2000	1	8.3	120°F	140°F

HOTSTART TPS tank heaters are constructed from a durable, high-impact plastic. Every heater is assembled with a built-in thermostat and 4-foot power cord.

Replacement Parts

For TPS Model heaters



Model Number	Volts	Watts	Thermostat Range		Replaceable Parts					
			On	Off	T-Stat	Element	Tank	Box	Power Cord	Element O-ring
TPS051GT8-000	120	500	80°F	100°F	LSU-8	REPS051T8	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS051GT10-000	120	500	100°F	120°F	LSU-10	REPS051T10	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS051GT12-000	120	500	120°F	140°F	LSU-12	REPS051T12	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS052GT8-000	240	500	80°F	100°F	LSU-8	REPS052T8	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS052GT10-000	240	500	100°F	120°F	LSU-10	REPS052T10	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS052GT12-000	240	500	120°F	140°F	LSU-12	REPS052T12	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS101GT8-000	120	1000	80°F	100°F	LSU-8	REPS101T8	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS101GT10-000	120	1000	100°F	120°F	LSU-10	REPS101T10	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS101GT12-000	120	1000	120°F	140°F	LSU-12	REPS101T12	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS102GT8-000	240	1000	80°F	100°F	LSU-8	REPS102T8	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS102GT10-000	240	1000	100°F	120°F	LSU-10	REPS102T10	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS102GT12-000	240	1000	120°F	140°F	LSU-12	REPS102T12	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS151GT8-000	120	1500	80°F	100°F	LSU-8	REPS151T8	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS151GT10-000	120	1500	100°F	120°F	LSU-10	REPS151T10	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS151GT12-000	120	1500	120°F	140°F	LSU-12	REPS151T12	TPS-T	CPS-1	11P48UU	TPS-BOR
TPS152GT8-000	240	1500	80°F	100°F	LSU-8	REPS152T8	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS152GT10-000	240	1500	100°F	120°F	LSU-10	REPS152T10	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS152GT12-000	240	1500	120°F	140°F	LSU-12	REPS152T12	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS181GT8-000	120	1800	80°F	100°F	LSU-8	REPS181T8	TPS-T	CPS-1	12P48UU	TPS-BOR
TPS181GT10-000	120	1800	100°F	120°F	LSU-10	REPS181T10	TPS-T	CPS-1	12P48UU	TPS-BOR
TPS181GT12-000	120	1800	120°F	140°F	LSU-12	REPS181T12	TPS-T	CPS-1	12P48UU	TPS-BOR
TPS202GT8-000	240	2000	80°F	100°F	LSU-8	REPS202T8	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS202GT10-000	240	2000	100°F	120°F	LSU-10	REPS202T10	TPS-T	CPS-1	21P48UU	TPS-BOR
TPS202GT12-000	240	2000	120°F	140°F	LSU-12	REPS202T12	TPS-T	CPS-1	21P48UU	TPS-BOR

Small Tank Heaters

TPS Model w/in-line adjustable and remote thread-in fixed thermostat

**Single Phase
500-2000 Watts
120V & 240V**

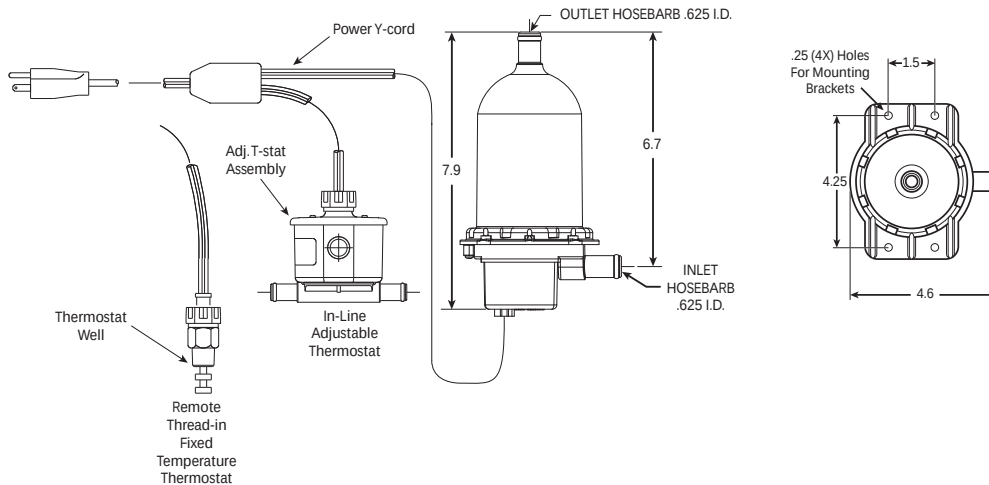


Ambient Above -20° F	Ambient Below -20° F	Model Number	Volts	Watts	Phase	Amps	Thermostat Range On Off
150 Cubic Inch or Less	150 Cubic Inch or Less	TPS051GT12-001*	120	500	1	4.2	100°F 120°F
		TPS051GT12-A00	120	500	1	4.2	ADJUSTABLE
		TPS052GT12-001*	240	500	1	2.1	100°F 120°F
		TPS052GT12-A00	240	500	1	2.1	ADJUSTABLE
350 Cubic Inch or Less	200 Cubic Inch or Less	TPS101GT12-001*	120	1000	1	8.4	100°F 120°F
		TPS101GT12-A00	120	1000	1	8.4	ADJUSTABLE
		TPS102GT12-001*	240	1000	1	4.2	100°F 120°F
		TPS102GT12-A00	240	1000	1	4.2	ADJUSTABLE
350 — 500 Cubic Inch or Less	200 — 300 Cubic Inch or Less	TPS151GT12-001*	120	1500	1	12.5	100°F 120°F
		TPS151GT12-A00	120	1500	1	12.5	ADJUSTABLE
		TPS152GT12-001*	240	1500	1	6.3	100°F 120°F
		TPS152GT12-A00	240	1500	1	6.3	ADJUSTABLE
500 — 700 Cubic Inch or Less	300 — 400 Cubic Inch or Less	TPS181GT12-001*	120	1800	1	15	100°F 120°F
		TPS181GT12-A00	120	1800	1	15	ADJUSTABLE
		TPS202GT12-001*	240	2000	1	8.3	100°F 120°F
		TPS202GT12-A00	240	2000	1	8.3	ADJUSTABLE

* Remote thread-in fixed temperature thermostat

**ADJUSTABLE 90-130°F
(On differential - 20° F)**

In-line thermostat options:



Model Number	Volts	Watts	Thermostat Range On Off	Replaceable Parts			
				Sensing Unit	Element	Power Y-cord	Thermostat Well
TPS051GT12-001*	120	500	100°F 120°F	LSU-10	REPS051T12	TPS-YC1	TW2374-1
TPS051GT12-A00	120	500	ADJUSTABLE	RSU90-130	REPS051T12	#	#
TPS052GT12-001*	240	500	100°F 120°F	LSU-10	REPS052T12	TPS-YC2	TW2374-1
TPS052GT12-A00	240	500	ADJUSTABLE	RSU90-130	REPS052T12	#	#
TPS101GT12-001*	120	1000	100°F 120°F	LSU-10	REPS101T12	TPS-YC1	TW2374-1
TPS101GT12-A00	120	1000	ADJUSTABLE	RSU90-130	REPS101T12	#	#
TPS102GT12-001*	240	1000	100°F 120°F	LSU-10	REPS102T12	TPS-YC2	TW2374-1
TPS102GT12-A00	240	1000	ADJUSTABLE	RSU90-130	REPS102T12	#	#
TPS151GT12-001*	120	1500	100°F 120°F	LSU-10	REPS151T12	TPS-YC1	TW2374-1
TPS151GT12-A00	120	1500	ADJUSTABLE	RSU90-130	REPS151T12	#	#
TPS152GT12-001*	240	1500	100°F 120°F	LSU-10	REPS152T12	TPS-YC2	TW2374-1
TPS152GT12-A00	240	1500	ADJUSTABLE	RSU90-130	REPS152T12	#	#
TPS181GT12-001*	120	1800	100°F 120°F	LSU-10	REPS181T12	12P16H54S54X10UU	TW2374-1
TPS181GT12-A00	120	1800	ADJUSTABLE	RSU90-130	REPS181T12	#	#
TPS202GT12-001*	240	2000	100°F 120°F	LSU-10	REPS202T12	TPS-YC2	TW2374-1
TPS202GT12-A00	240	2000	ADJUSTABLE	RSU90-130	REPS202T12	#	#

* Remote thread-in fixed temperature thermostat

Call Factory

Replacement Parts

For TPS Model heaters w/in-line adjustable and remote thread-in fixed thermostat

Common Replacement Parts For ALL TPS Model Heaters:

- Tank
- Box
- Element O-ring

See table on p. 6

Industrial Tank Heaters

(Conduit Connection)

1500 - 5000 watt
Weathertight
Single Phase



CB Model without thermostat.



CB Model assembled with thermostat.



CL Model without thermostat.



CL Model assembled with thermostat.



Ambient Above -20° F	Ambient Below -20° F	Model Number without Thermostat	Model Number with Thermostat (see chart 1)	Volts	Watts	Phase	Amps	Fig.* No.
350 — 500 Cubic Inch or Less	200 — 300 Cubic Inch or Less	CB115100-000	CB1151XX-000	120	1500	1	12.5	1
		CB115800-000	CB1158XX-000	208	1500	1	7.2	1
		CB115200-000	CB1152XX-000	240	1500	1	6.3	1
		CB115700-000	CB1157XX-000	277	1500	1	5.4	1
		CB115300-000	CB1153XX-000	380	1500	1	3.9	1
		CB115400-000	CB1154XX-000	480	1500	1	3.1	1
500 — 600 Cubic Inch or Less	300 — 400 Cubic Inch or Less	CB120100-000	CB1201XX-000	120	2000	1	16.7	1
		CB120800-000	CB1208XX-000	208	2000	1	9.6	1
		CB120200-000	CB1202XX-000	240	2000	1	8.3	1
		CB120300-000	CB1203XX-000	380	2000	1	5.3	1
600 — 800 Cubic Inch or Less	400 — 500 Cubic Inch or Less	CB120400-000	CB1204XX-000	480	2000	1	4.2	1
		CB125100-000	CB1251XX-000	120	2500	1	20.8	1
		CB125800-000	CB1258XX-000	208	2500	1	12.0	1
		CB125200-000	CB1252XX-000	240	2500	1	10.4	1
		CB125700-000	CB1257XX-000	277	2500	1	9.0	1
		CB125300-000	CB1253XX-000	380	2500	1	6.6	1
800 — 1000 Cubic Inch or Less	500 — 600 Cubic Inch or Less	CB125400-000	CB1254XX-000	480	2500	1	5.2	1
		CL130100-100	CL1301XX-100	120	3000	1	25.0	3
		CL130800-100	CL1308XX-100	208	3000	1	14.4	3
		CL130200-100	CL1302XX-100	240	3000	1	12.5	3
		CL130700-100	CL1307XX-100	277	3000	1	10.8	3
		CL130300-100	CL1303XX-100	380	3000	1	7.9	3
1000 — 1350 Cubic Inch or Less	600 — 800 Cubic Inch or Less	CL130400-100	CL1304XX-100	480	3000	1	6.3	3
		CL140800-100	CL1408XX-100	208	4000	1	19.2	3
		CL140200-100	CL1402XX-100	240	4000	1	16.7	3
		CL140700-100	CL1407XX-100	277	4000	1	14.4	3
		CL140300-100	CL1403XX-100	380	4000	1	10.5	3
		CL140400-100	CL1404XX-100	480	4000	1	8.3	3
1350 — 1650 Cubic Inch or Less	800 — 1000 Cubic Inch or Less	CL150800-100	CL1508XX-100	208	5000	1	24.0	3
		CL150200-100	CL1502XX-100	240	5000	1	20.8	3
		CL150700-100	CL1507XX-100	277	5000	1	18.1	3
		CL150300-100	CL1503XX-100	380	5000	1	13.2	3
		CL150400-100	CL1504XX-100	480	5000	1	10.4	3

*Figure Number refers to technical drawings of heaters located on page 14.

INSTALLATION TIPS

If you require a 1" NPT female thread on the thermostat intake, a coupler is available. Also, for the use of 3/4" or 1" ID heater hose, hose barb adapters are available. See below.

Part Number	Description
HB-1	1" NPT to 1" hose barb adapter. Installs in 1" NPT female inlet or outlet of the heater.
HB-3/4	1" NPT to 3/4" hose barb adapter. Installs in 1" NPT female inlet or outlet of the heater.
HB-C	1" NPT x 1" NPT aluminum coupler. Installs on 1" NPT inlet to T-Stat and allows the addition of HB-1 or HB-3/4.
HB-K3/4	Kit contains (2) HB-3/4 and (1) HB-C
HB-K1	Kit contains (2) HB-1 and (1) HB-C

CHART 1

HEATERS WITH THERMOSTATS

To specify temperature range of thermostat, insert numerical code from chart in place of the XX in model number.

Example:

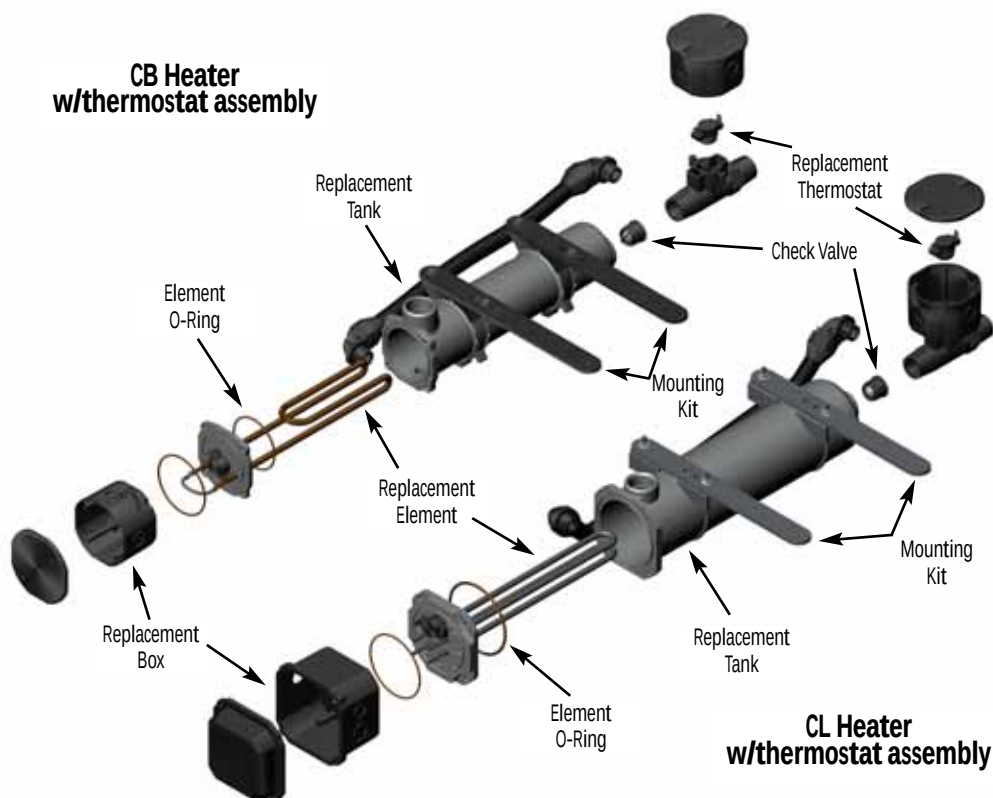
Desired Temperature Range 100° - 120°F
Catalog Number: Model CB1151XX-000
Order as: Model CB115110-000

All heaters over 277v and all 3Ø units must use a control box	TEMPERATURE RANGE		NUMERICAL CODE
	ON	OFF	
See Control Systems page 38	60°F	80°F	06
	80°F	100°F	08
	100°F	120°F	10
	120°F	140°F	12
	140°F	160°F	14
	Adjustable 90° - 130°F		A3

Replacement Parts

For tank-style heaters shown on page 8

Model Number	Volts	Watts	Replaceable Parts					
			Element	Tank	Box	Element O-ring	Mounting Kit	Check Valve
CB115100-000	120	1500	RECB1151	RTB	RTBCB	TMM-OR	FK2	RV-M
CB115800-000	208	1500	RECB1158	RTB	RTBCB	TMM-OR	FK2	RV-M
CB115200-000	240	1500	RECB1152	RTB	RTBCB	TMM-OR	FK2	RV-M
CB115700-000	277	1500	RECB1157	RTB	RTBCB	TMM-OR	FK2	RV-M
CB115300-000	380	1500	RECB1153	RTB	RTBCB	TMM-OR	FK2	RV-M
CB115400-000	480	1500	RECB1154	RTB	RTBCB	TMM-OR	FK2	RV-M
CB120100-000	120	2000	RECB1201	RTB	RTBCB	TMM-OR	FK2	RV-M
CB120800-000	208	2000	RECB1208	RTB	RTBCB	TMM-OR	FK2	RV-M
CB120200-000	240	2000	RECB1202	RTB	RTBCB	TMM-OR	FK2	RV-M
CB120300-000	380	2000	RECB1203	RTB	RTBCB	TMM-OR	FK2	RV-M
CB120400-000	480	2000	RECB1204	RTB	RTBCB	TMM-OR	FK2	RV-M
CB125100-000	120	2500	RECB1251	RTB	RTBCB	TMM-OR	FK2	RV-M
CB125800-000	208	2500	RECB1258	RTB	RTBCB	TMM-OR	FK2	RV-M
CB125200-000	240	2500	RECB1252	RTB	RTBCB	TMM-OR	FK2	RV-M
CB125700-000	277	2500	RECB1257	RTB	RTBCB	TMM-OR	FK2	RV-M
CB125300-000	380	2500	RECB1253	RTB	RTBCB	TMM-OR	FK2	RV-M
CB125400-000	480	2500	RECB1254	RTB	RTBCB	TMM-OR	FK2	RV-M
CL130100-100	120	3000	RECL1301-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL130800-100	208	3000	RECL1308-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL130200-100	240	3000	RECL1302-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL130700-100	277	3000	RECL1307-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL130300-100	380	3000	RECL1303-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL130400-100	480	3000	RECL1304-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL140800-100	208	4000	RECL1408-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL140200-100	240	4000	RECL1402-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL140700-100	277	4000	RECL1407-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL140300-100	380	4000	RECL1403-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL140400-100	480	4000	RECL1404-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL150800-100	208	5000	RECL1508-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL150200-100	240	5000	RECL1502-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL150700-100	277	5000	RECL1507-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL150300-100	380	5000	RECL1503-100	RTL	RTBCL-100	TML-OR	FK6	RV-M
CL150400-100	480	5000	RECL1504-100	RTL	RTBCL-100	TML-OR	FK6	RV-M



Heaters with Thermostats		
Temperature Range		Thermostat Replacement
ON	OFF	
60°F	80°F	RSU6
80°F	100°F	RSU8
100°F	120°F	RSU10
120°F	140°F	RSU12
140°F	160°F	RSU14
Adjustable 90° - 130°F		RSU90-130

Industrial Tank Heaters

(With Power Cord)

1500 - 4000 watt
Weathertight
Single Phase

SB Models include hi-limit thermostats and carry CSA-C/US approval.



SB Model with power cord;
no thermostat



SB Model with thermostat
and power cord



SL Model with power cord;
no thermostat.



SL Model with thermostat
and power cord.

Ambient Above -20° F	Ambient Below -20° F	Model Number without Thermostat	Model Number with Thermostat (see chart 1)	Volts	Watts	Phase	Amps	Fig.* No.
350 — 500 Cubic Inch or Less	200 — 300 Cubic Inch or Less	SB115100-000	SB1151XX-000	120	1500	1	12.5	2
		SB115800-000	SB1158XX-000	208	1500	1	7.2	2
		SB115200-000	SB1152XX-000	240	1500	1	6.3	2
		SB115700-000	SB1157XX-000	277	1500	1	5.4	2
500 — 600 Cubic Inch or Less	300 — 400 Cubic Inch or Less	SB120100-000	SB1201XX-000	120	2000	1	16.7	2
		SB120800-000	SB1208XX-000	208	2000	1	9.6	2
		SB120200-000	SB1202XX-000	240	2000	1	8.3	2
600 — 800 Cubic Inch or Less	400 — 500 Cubic Inch or Less	SB122100-000	SB1221XX-000	120	2250	1	18.8	2
		SB125800-000	SB1258XX-000	208	2500	1	12.0	2
		SB125200-000	SB1252XX-000	240	2500	1	10.4	2
		SB125700-000	SB1257XX-000	277	2500	1	9.0	2
800 — 1000 Cubic Inch or Less	500 — 600 Cubic Inch or Less	SL130100-000	— SL1308XX-000 SL1302XX-000 SL1307XX-000	120	3000	1	25.0	4
		SL130800-000		208	3000	1	14.4	4
		SL130200-000		240	3000	1	12.5	4
		SL130700-000		277	3000	1	10.8	4
1000 — 1350 Cubic Inch or Less	600 — 800 Cubic Inch or Less	SL140800-000	SL1408XX-000	208	4000	1	19.2	4
		SL140200-000	SL1402XX-000	240	4000	1	16.7	4
		SL140700-000	SL1407XX-000	277	4000	1	14.4	4

*Figure Number refers to technical drawings of heaters located on page 14.

All 208v, 277v and 3000w/120v models come with cord only - no plug.

INSTALLATION TIPS

If you require a 1" NPT female thread on the thermostat intake, a coupler is available. Also, for the use of 3/4" or 1" ID heater hose, hose barb adapters are available. See below.

Part Number	Description
HB-1	1" NPT to 1" hose barb adapter. Installs in 1" NPT female inlet or outlet of the heater.
HB-3/4	1" NPT to 3/4" hose barb adapter. Installs in 1" NPT female inlet or outlet of the heater.
HB-C	1" NPT x 1" NPT aluminum coupler. Installs on 1" NPT inlet to T-Stat and allows the addition of HB-1 or HB-3/4.
HB-K3/4	Kit contains (2) HB-3/4 and (1) HB-C
HB-K1	Kit contains (2) HB-1 and (1) HB-C

CHART 1

HEATERS WITH THERMOSTATS

To specify temperature range of thermostat, insert numerical code from chart in place of the XX in model number.

Example:

Desired Temperature Range 100° - 120°F

Catalog Number: Model SB1151XX-000

Order as: Model SB115110-000

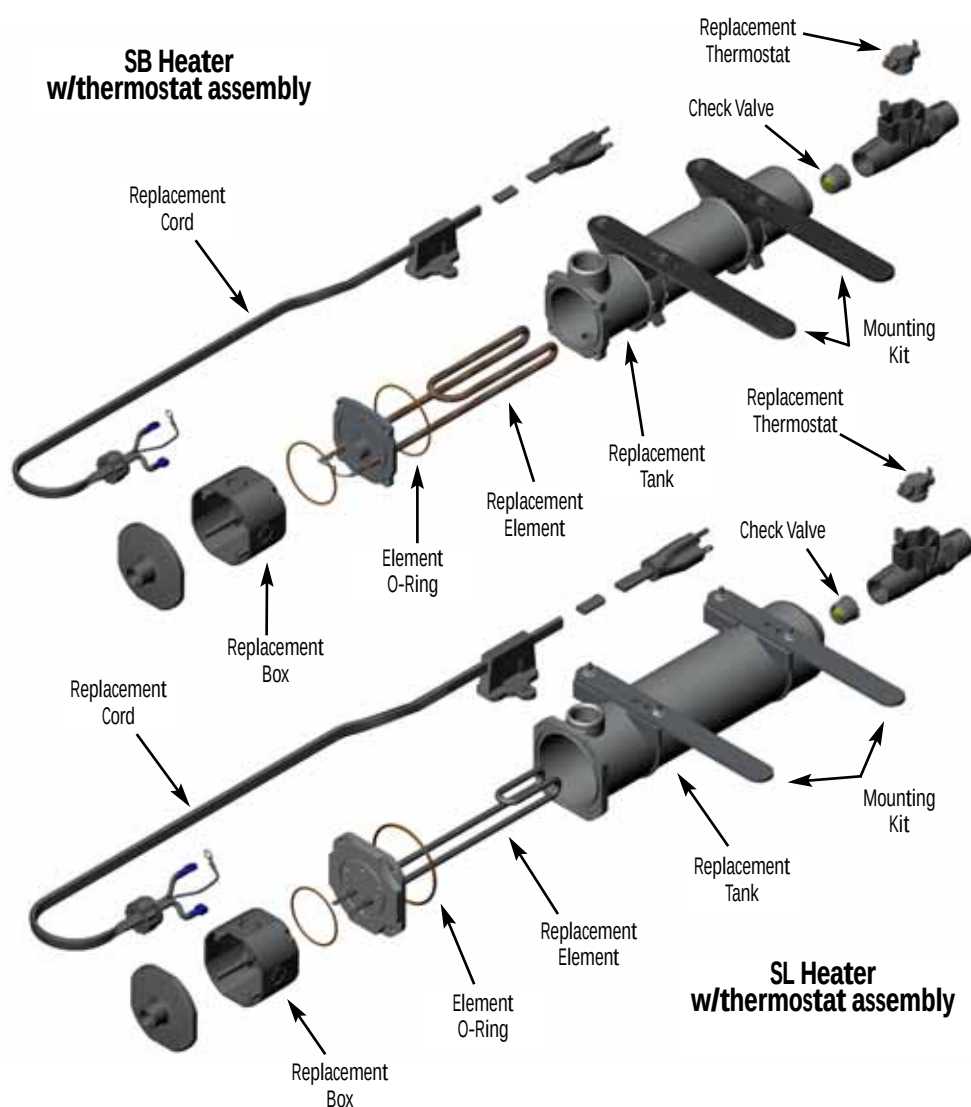
	TEMPERATURE RANGE		NUMERICAL CODE
	ON	OFF	
	60°F	80°F	06
	80°F	100°F	08
	100°F	120°F	10
	120°F	140°F	12
	140°F	160°F	14

Replacement Parts

For tank-style heaters shown on page 10

Model Number	Volts	Watts	Replaceable Parts							
			Element	Tank	Box	Power Cord	Power Cord w/T-stat plug*	Element O-ring	Mount Kit	Check Valve
SB115100-000	120	1500	RESB1151	RTB	RTBSB	RTHC1-16	RHS1-16	TMM-OR	FK2	RV-M
SB115800-000	208	1500	RESB1158	RTB	RTBSB	RTHC-16	RHS-16	TMM-OR	FK2	RV-M
SB115200-000	240	1500	RESB1152	RTB	RTBSB	RTHC2-16	RHS2-16	TMM-OR	FK2	RV-M
SB115700-000	277	1500	RESB1157	RTB	RTBSB	RTHC-16	RHS-16	TMM-OR	FK2	RV-M
SB120100-000	120	2000	RESB1201	RTB	RTBSB	RTHC1-14	RHS1-14	TMM-OR	FK2	RV-M
SB120800-000	208	2000	RESB1208	RTB	RTBSB	RTHC-16	RHS-16	TMM-OR	FK2	RV-M
SB120200-000	240	2000	RESB1202	RTB	RTBSB	RTHC2-16	RHS2-16	TMM-OR	FK2	RV-M
SB122100-000	120	2250	RESB1221	RTB	RTBSB	RTHC1-14	RHS1-14	TMM-OR	FK2	RV-M
SB125800-000	208	2500	RECB1258	RTB	RTBSB	RTHC-16	RHS-16	TMM-OR	FK2	RV-M
SB125200-000	240	2500	RECB1252	RTB	RTBSB	RTHC2-16	RHS2-16	TMM-OR	FK2	RV-M
SB125700-000	277	2500	RECB1257	RTB	RTBSB	RTHC-16	RHS-16	TMM-OR	FK2	RV-M
SL130100-000	120	3000	RESL1301	RTL	RTBSL	N/A	N/A	TML-OR	FK6	RV-M
SL130800-000	208	3000	RESL1308	RTL	RTBSL	RTHC-16	RHS-16	TML-OR	FK6	RV-M
SL130200-000	240	3000	RESL1302	RTL	RTBSL	RTHC2-16	RHS2-16	TML-OR	FK6	RV-M
SL130700-000	277	3000	RESL1307	RTL	RTBSL	RTHC-16	RHS-16	TML-OR	FK6	RV-M
SL140800-000	208	4000	RESL1408	RTL	RTBSL	RTHC-14	RHS-14	TML-OR	FK6	RV-M
SL140200-000	240	4000	RESL1402	RTL	RTBSL	RTHC2-16	RHS2-14	TML-OR	FK6	RV-M
SL140700-000	277	4000	RESL1407	RTL	RTBSL	RTHC-16	RHS-16	TML-OR	FK6	RV-M

*Order this replacement cord if original heater is configured with a thermostat assembly.



Heaters with Thermostats		
Temperature Range		Thermostat Replacement
ON	OFF	
60°F	80°F	RSU6
80°F	100°F	RSU8
100°F	120°F	RSU10
120°F	140°F	RSU12
140°F	160°F	RSU14
Adjustable 90° - 130°F		RSU90-130

Industrial Tank Heaters

1500 - 5000 watt

Weathertight

Three Phase



WL Model without thermostat



WL Model with thermostat



Ambient Above -20° F	Ambient Below -20° F	Model Number without Thermostat	Model Number with Thermostat (see chart 1)	Volts	Watts	Ø	Amp	Fig.* No.
500 Cubic Inch or Less	300 Cubic Inch or Less	WL315800-000 WL315200-000 WL315400-000	WL3158XX-000 WL3152XX-000 WL3154XX-000	208	1500	3	4.2	5
				240	1500	3	3.6	5
				480	1500	3	1.8	5
500 — 600 Cubic Inch or Less	300 — 400 Cubic Inch or Less	WL320800-000 WL320200-000 WL320300-000 WL320400-000 WL320500-000	WL3208XX-000 WL3202XX-000 WL3203XX-000 WL3204XX-000 WL3205XX-000	208	2000	3	5.6	5
				240	2000	3	4.8	5
				380	2000	3	3.0	5
				480	2000	3	2.4	5
				575	2000	3	2.0	5
600 — 800 Cubic Inch or Less	400 — 500 Cubic Inch or Less	WL325800-000 WL325200-000 WL325300-000 WL325400-000 WL325500-000	WL3258XX-000 WL3252XX-000 WL3253XX-000 WL3254XX-000 WL3255XX-000	208	2500	3	6.9	5
				240	2500	3	6.0	5
				380	2500	3	3.8	5
				480	2500	3	3.0	5
				575	2500	3	2.5	5
800 — 1000 Cubic Inch or Less	500 — 600 Cubic Inch or Less	WL330800-000 WL330200-000 WL330300-000 WL330400-000 WL330500-000	WL3308XX-000 WL3302XX-000 WL3303XX-000 WL3304XX-000 WL3305XX-000	208	3000	3	8.3	5
				240	3000	3	7.2	5
				380	3000	3	4.6	5
				480	3000	3	3.6	5
				575	3000	3	3.0	5
1000 — 1350 Cubic Inch or Less	600 — 800 Cubic Inch or Less	WL340800-000 WL340200-000 WL340300-000 WL340400-000 WL340500-000	WL3408XX-000 WL3402XX-000 WL3403XX-000 WL3404XX-000 WL3405XX-000	208	4000	3	11.1	5
				240	4000	3	9.6	5
				380	4000	3	6.1	5
				480	4000	3	4.8	5
				575	4000	3	4.0	5
1350 — 1650 Cubic Inch or Less	800 — 1000 Cubic Inch or Less	WL350800-000 WL350200-000 WL350300-000 WL350400-000 WL350500-000	WL3508XX-000 WL3502XX-000 WL3503XX-000 WL3504XX-000 WL3505XX-000	208	5000	3	13.9	5
				240	5000	3	12.0	5
				380	5000	3	7.6	5
				480	5000	3	6.0	5
				575	5000	3	5.0	5

*Figure Number refers to technical drawings of heaters located on page 14.

INSTALLATION TIPS

If you require a 1" NPT female thread on the thermostat intake, a coupler is available. Also, for the use of 3/4" or 1" ID heater hose, hose barb adapters are available. See below.

Part Number	Description
HB-1	1" NPT to 1" hose barb adapter. Installs in 1" NPT female inlet or outlet of the heater.
HB-3/4	1" NPT to 3/4" hose barb adapter. Installs in 1" NPT female inlet or outlet of the heater.
HB-C	1" NPT x 1" NPT aluminum coupler. Installs on 1" NPT inlet to T-Stat and allows the addition of HB-1 or HB-3/4.
HB-K3/4	Kit contains (2) HB-3/4 and (1) HB-C
HB-K1	Kit contains (2) HB-1 and (1) HB-C

CHART 1

HEATERS WITH THERMOSTATS

To specify temperature range of thermostat, insert numerical code from chart in place of the XX in model number.

Example:

Desired Temperature Range 100° - 120°F
Catalog Number: Model WL3152XX-000
Order as: Model WL315210-000

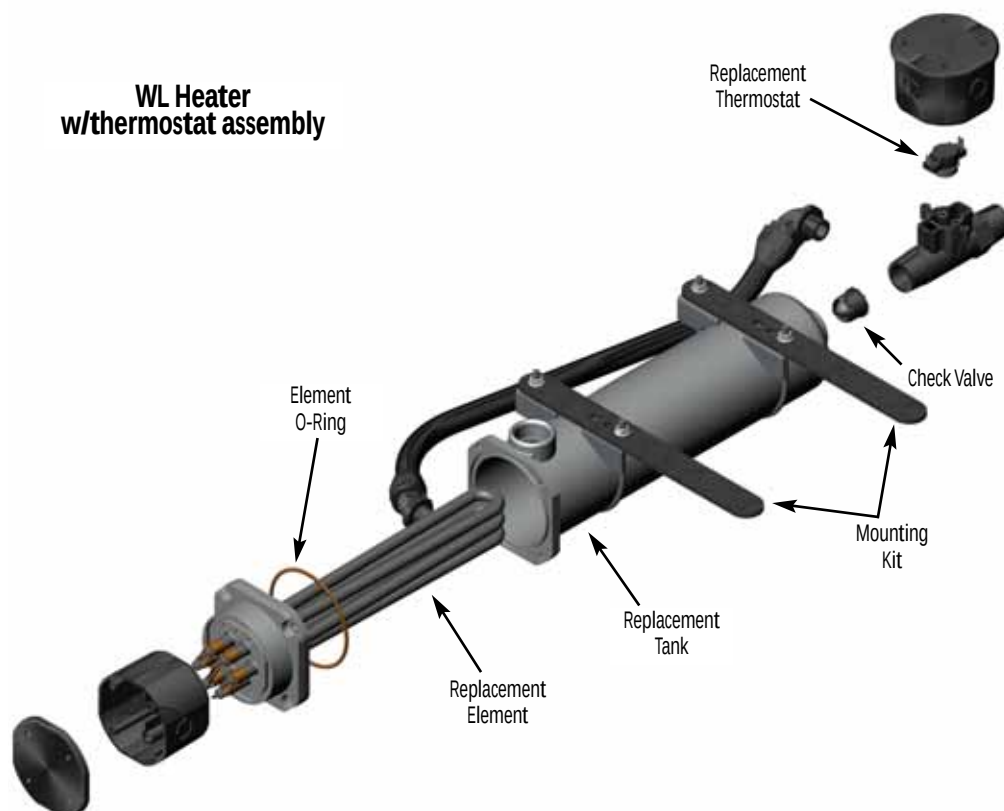
All heaters over 277v and all 3Ø units must use a control box	TEMPERATURE RANGE		NUMERICAL CODE
	ON	OFF	
See Control Systems page 38	60°F	80°F	06
	80°F	100°F	08
	100°F	120°F	10
	120°F	140°F	12
	140°F	160°F	14
	Adjustable 90° - 130°F		A3

Replacement Parts

For tank-style heaters shown on page 12

Model Number	Volts	Watts	Replaceable Parts				
			Element	Tank	Element O-ring	Mounting Kit	Check Valve
WL315800-000	208	1500	E01583W-15NT-00	RTL	TML-OR	FK6	RV-M
WL315200-000	240	1500	E01523W-15NT-00	RTL	TML-OR	FK6	RV-M
WL315400-000	480	1500	E01543W-15NT-00	RTL	TML-OR	FK6	RV-M
WL320800-000	208	2000	E02083W-25NT-00	RTL	TML-OR	FK6	RV-M
WL320200-000	240	2000	E02023W-25NT-00	RTL	TML-OR	FK6	RV-M
WL320300-000	380	2000	E02033W-25NT-00	RTL	TML-OR	FK6	RV-M
WL320400-000	480	2000	E02043W-25NT-00	RTL	TML-OR	FK6	RV-M
WL320500-000	575	2000	E02053W-25NT-00	RTL	TML-OR	FK6	RV-M
WL325800-000	208	2500	E02583W-30NT-00	RTL	TML-OR	FK6	RV-M
WL325200-000	240	2500	E02523W-30NT-00	RTL	TML-OR	FK6	RV-M
WL325300-000	380	2500	E02533W-30NT-00	RTL	TML-OR	FK6	RV-M
WL325400-000	480	2500	E02543W-30NT-00	RTL	TML-OR	FK6	RV-M
WL325500-000	575	2500	E02553W-30NT-00	RTL	TML-OR	FK6	RV-M
WL330800-000	208	3000	E03083W-30NT-00	RTL	TML-OR	FK6	RV-M
WL330200-000	240	3000	E03023W-30NT-00	RTL	TML-OR	FK6	RV-M
WL330300-000	380	3000	E03033W-30NT-00	RTL	TML-OR	FK6	RV-M
WL330400-000	480	3000	E03043W-30NT-00	RTL	TML-OR	FK6	RV-M
WL330500-000	575	3000	E03053W-30NT-00	RTL	TML-OR	FK6	RV-M
WL340800-000	208	4000	E04083W-50NT-00	RTL	TML-OR	FK6	RV-M
WL340200-000	240	4000	E04023W-50NT-00	RTL	TML-OR	FK6	RV-M
WL340300-000	380	4000	E04033W-50NT-00	RTL	TML-OR	FK6	RV-M
WL340400-000	480	4000	E04043W-50NT-00	RTL	TML-OR	FK6	RV-M
WL340500-000	575	4000	E04053W-50NT-00	RTL	TML-OR	FK6	RV-M
WL350800-000	208	5000	E05083W-50NT-00	RTL	TML-OR	FK6	RV-M
WL350200-000	240	5000	E05023W-50NT-00	RTL	TML-OR	FK6	RV-M
WL350300-000	380	5000	E05033W-50NT-00	RTL	TML-OR	FK6	RV-M
WL350400-000	480	5000	E05043W-50NT-00	RTL	TML-OR	FK6	RV-M
WL350500-000	575	5000	E05053W-50NT-00	RTL	TML-OR	FK6	RV-M

WL Heater w/thermostat assembly



Heaters with Thermostats		
Temperature Range		Thermostat Replacement
ON	OFF	
60°F	80°F	RSU6
80°F	100°F	RSU8
100°F	120°F	RSU10
120°F	140°F	RSU12
140°F	160°F	RSU14
Adjustable 90° - 130°F		RSU90-130

Technical Drawings

all dimensions in inches

CB Style Heater without thermostat (pg. 8-9)

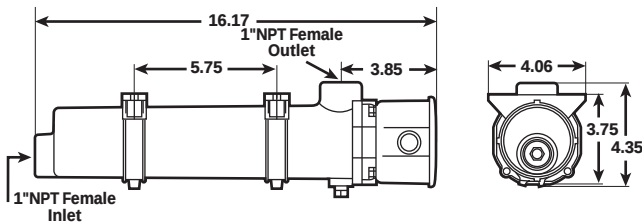
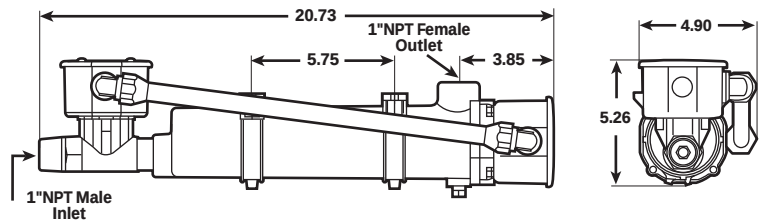


FIGURE 1

CB Style Heater with thermostat (pg. 8-9)



SB Style Heater without thermostat (pg. 10-11)

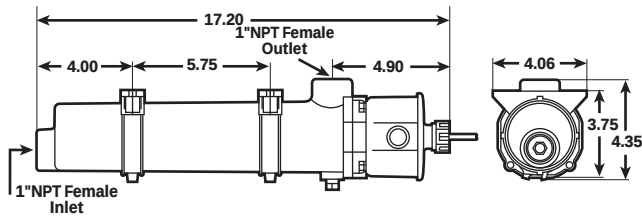
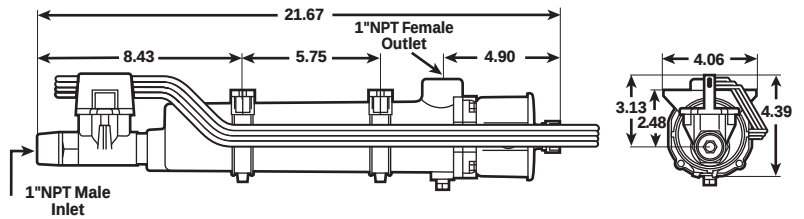


FIGURE 2

SB Style Heater with thermostat (pg. 10-11)



CL Style Heater without thermostat (pg. 8-9)

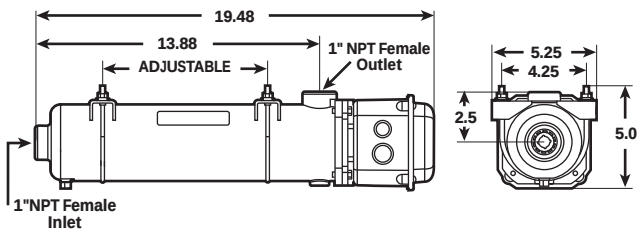
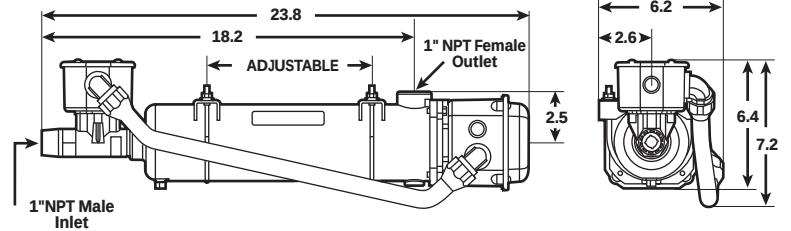


FIGURE 3

CL Style Heater with thermostat (pg. 8-9)



SL Style Heater without thermostat (pg. 10-11)

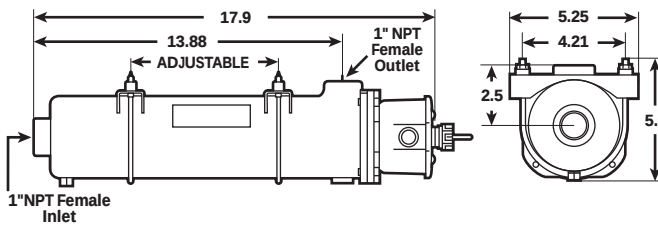
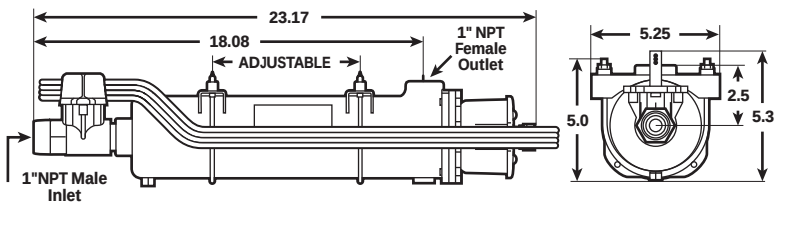


FIGURE 4

SL Style Heater with thermostat (pg. 10-11)



WL Style Heater without thermostat (pg. 12-13)

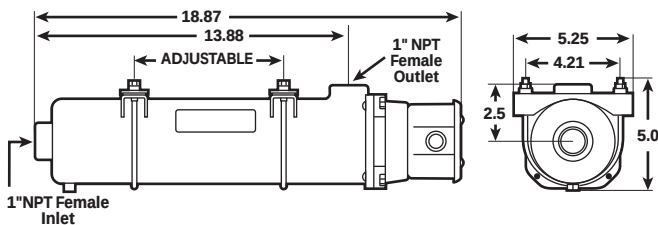
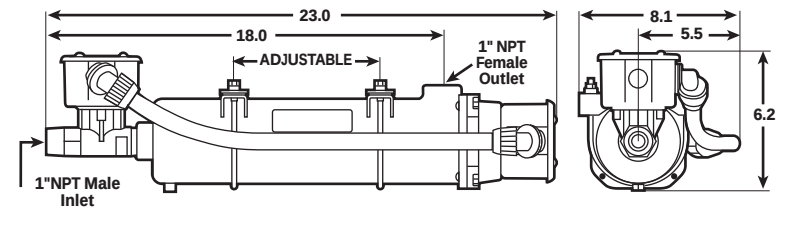


FIGURE 5

WL Style Heater with thermostat (pg. 12-13)



- Large NEMA 4 enclosure with 1/2" and 3/4" knockouts.
- Rubber insulating sleeve around tank.
- Internal adjustable thermostat. Adjustable setpoints from 70°F - 210°F.
- Incoloy sheath elements.
- Four wattage/voltage options. Three corresponding to Caterpillar part numbers.
- Vertical mount only.

For Original Equipment Replacement:

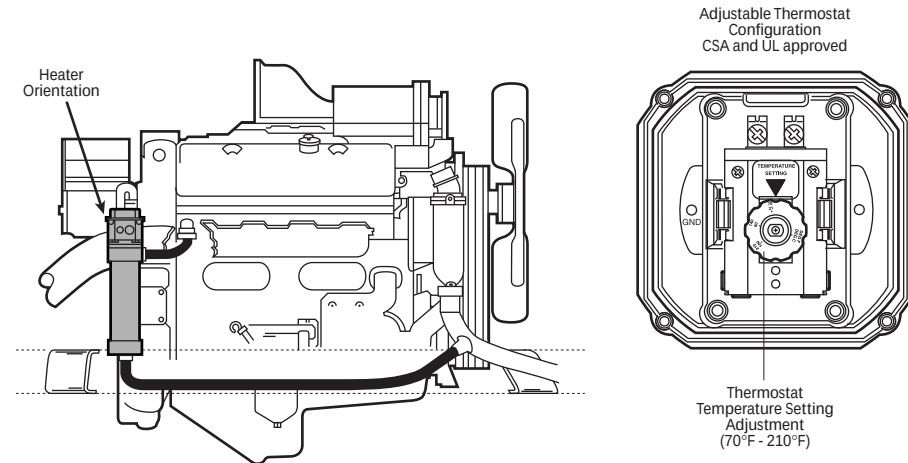
- Two 5" stainless steel worm-drive clamps are included to mount heater to existing bracket.

For New Installations:

- U-bolt mounting brackets are available. Order kit part number: **FK9**.

HOTSTART Part Number	Caterpillar Part Number	Wattage	Voltage	Pre-wired at Assembly	Replacement Element
CL130DA2-000	7E-6247	3kw	120/240 VAC	120V	RECL130D
CL160EA2-000	7E-6248*	6kw	240/480 VAC	240V	RECL160E
CL160CA2-000	7E-6249	6kw	120 VAC	2-120V Circuits	RECL160C
CL140EA2-000	—	4kw	240/480 VAC	240V	RECL140E

* Part Number changed to **2006504**



Industrial Tank Heaters

Original Equipment Replacement Heaters



Forced Circulating Heating System

With 10 GPM Pump

CSM Model

For Engines From 1000 to 6000 CID

These systems have proven to be a superior method of preheating engines that normally require the use of two thermosiphon heaters.

Forced circulation offers many benefits over thermosiphon units.

- Reduced electrical consumption
- Even heating over entire cooling system
- Reduced temperature at outlet extends hose life
- Longer heating element life
- Control circuitry pre-wired for easy installation

- UL-C/US listed (60Hz models) and CE compliant (50Hz models).
- 90°-130°F/32°-55°C adjustable thermostat.
- Small, compact design for easy installation.
- Meets requirements for installation on any UL 2200 listed generator

Engine Size CID Liter		Part Number	Wattage	Voltage	Phase	Hz	Amps
1000 to 2000	15-30	CSM10301-000	3000	120	1	60	27.0
		CSM10308-000	3000	208	1	60	16.4
		CSM1030C-000	3000	220	1	50	15.6
		CSM10302-000	3000	240	1	60	14.5
2000 to 3000	25-50	CSM10608-000	6000	208	1	60	30.8
		CSM1060C-000	6000	220	1	50	29.3
		CSM10602-000	6000	240	1	60	27.0
		CSM10604-000	6000	480	1	60	14.5
		CSM30603-000	6000	380	3	50	11.1
		CSM30604-000	6000	480	3	60	9.2
3000 to 4500	50-75	CSM10908-000	9000	208	1	60	45.3
		CSM1090C-000	9000	220	1	50	42.9
		CSM10902-000	9000	240	1	60	39.5
		CSM10904-000	9000	480	1	60	20.8
		CSM30903-000	9000	380	3	50	15.7
		CSM30904-000	9000	480	3	60	12.8
4500 to 6000	75-100	CSM11202-000	12000	240	1	60	52.0
		CSM11204-000	12000	480	1	60	27.0
		CSM31203-000	12000	380	3	50	20.3
		CSM31204-000	12000	480	3	60	16.5

Other voltages available. Consult the factory.



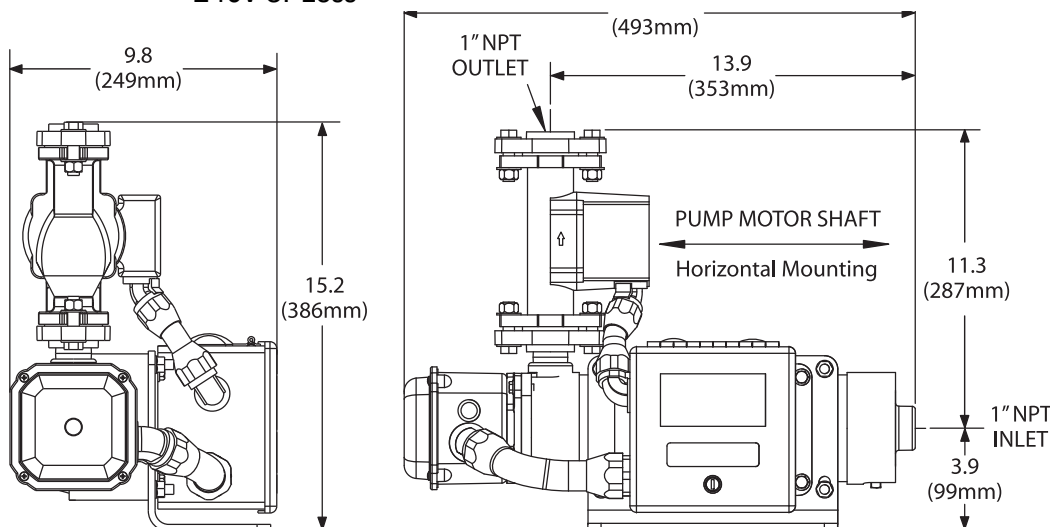
The CSM operates automatically by supplying a 24 Volt DC signal to the provided contacts.

Field testing has shown substantial energy savings in comparison to traditional thermosiphon heating methods.

System Drawings

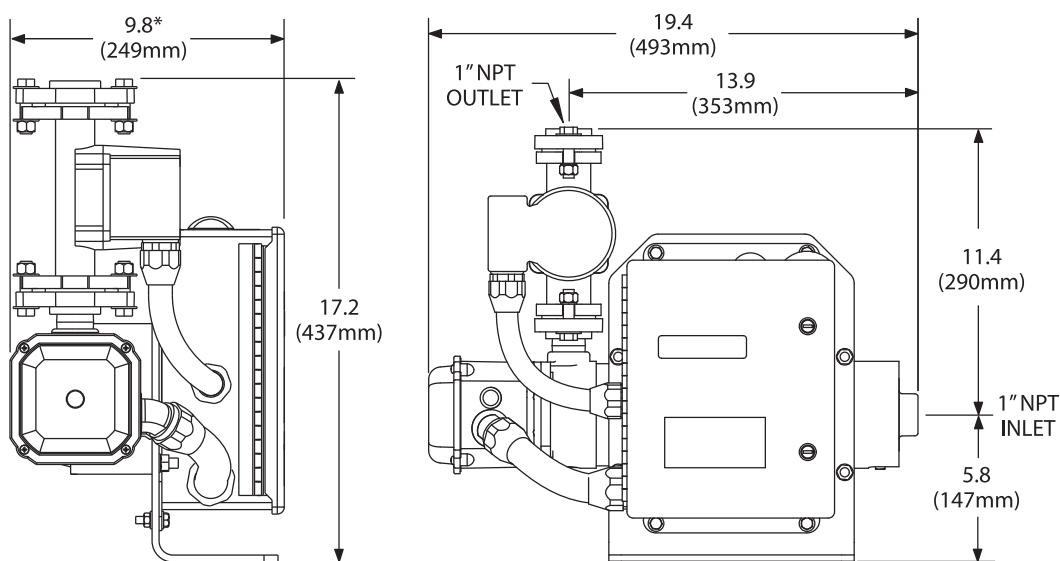
CSM Dimensions

1Ø
240v or Less



Shipping Weight: 37lbs. (16.8kg)

1Ø or 3Ø
Over 240v



Shipping Weight: 54lbs. (24.5kg)

* For CE compliant models, overall depth measures 10.8" (274mm)

