

COMMERCIAL PRODUCTS CATALOG



COMMERCIAL WATER HEATERS
STORAGE TANKS
EXPANSION TANKS

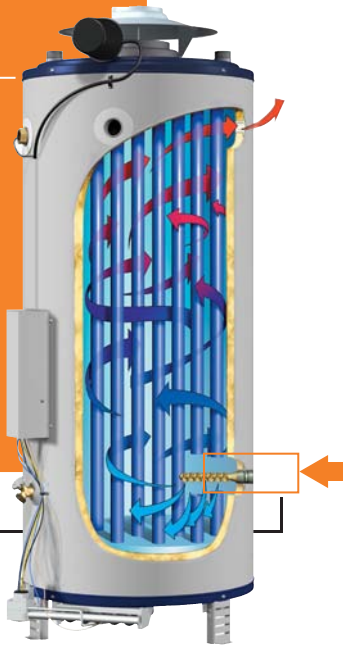
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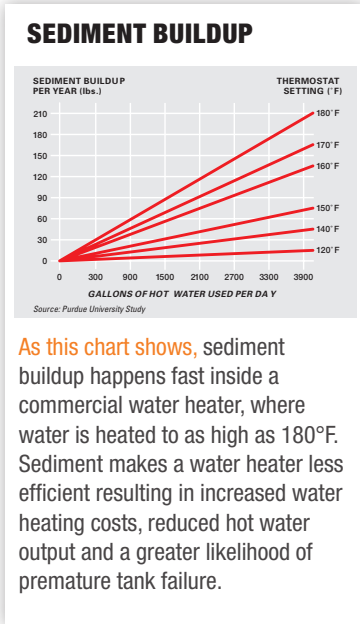


State Gives You All The Commercial Water Heater Choices You Need!

For new construction or replacement applications, State offers you a complete selection of commercial gas and electric water heaters, as well as commercial storage tanks up to 12,500 gallons. The State Sandblaster[®] was the industry's first self-cleaning water heater, and the "State of the art" continues to advance with great new products like the new Force 90™ & Force™ 90+ light commercial gas water heaters, with up to 96% thermal efficiency.



The self-cleaning Hydro Cannon™



Self-Cleaning Sandblaster[®] Gas

With the Hydro Cannon™ self-cleaning cold water inlet device, Sandblaster delivers an even higher level of sediment-fighting effectiveness. By keeping sediment buildup to a minimum, Sandblaster maintains its rated energy efficiency longer, and holds energy costs down.

Sandblaster is available in "SBD" Series models with automatic flue damper, plus low NOx "SBN" Series Induced Draft models.

Ultra Force™ Gas up to 96% Efficient

Up to 96% thermal efficiency makes the Ultra Force the most efficient State commercial water heater ever!

Ultra Force is designed for ease of installation, with 0" clearance to combustibles, top-mounted gas and electrical connections, plus the versatility of standard power venting or power direct venting, which draws all combustion air from outside!

Codes and Standards

All State commercial gas water heaters meet the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1.

State low NOx commercial gas water heaters comply with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for low NOx emissions.



iCOMM™ REMOTE MONITORING SYSTEM

For more information and ordering call 1-888-WATER02 or visit www.stateconnect.com



iCOMM Requirements

- Facility must have “always on” internet (wired or wireless)
- iCOMM compatible water heater
- Annual iCOMM subscription

iCOMM Features

- Provides remote monitoring via www.stateconnect.com
- E-mail and text messaging of fault conditions
- Leak detection and notification
- Graphs unit performance and operational history
- BACnet compatibility with building management systems

MODEL NUMBER	ITEM	DESCRIPTION
ICMS	iCOMM Communications Module	Main communications board required for any iCOMM installation.
IMDS	iCOMM Multi-Device Adapter	Needed if more than one water heater will be connected to the control module. Order 1 MDA for each water heater installed.
IABS	iCOMM Alarm Box	Accessory alarm box that includes an audible alarm and alarm light.

Note: If using wireless internet an optional wireless adapter is needed to provide wired connection to the communications module. Recommended adapter Linksys WGA600N or equivalent.

iCOMM™ Elite REMOTE MONITORING SYSTEM

For more information and ordering call 1-888-WATER02 or visit www.stateconnect.com

Elite

MODEL NUMBER	MODEL NUMBER
ELITESV120	SUF 60-120(A)
ELITESV150	SUF 100-150(A)
ELITESV199	SUF 100-199(A)
ELITESV250	SUF 100-250(A)
ELITESV300	SUF 130-300(A)
ELITESV400	SUF 130-400(A)
ELITESV500	SUF 130-500(A)
ELITEGLDEL	CSB 52(A),82(A),120(A) IFE
ELITEC0520	SSE 5, 10, 20
ELITEC3050	SSE 30, 40, 50
ELITEC6512	SSE 65, 80, 100, 120

iCOMM Elite Remote Monitoring System

- The State iCOMM Elite service plan provides a site evaluation, remote monitoring actively managed and monitored by State, service dispatch, and extended warranties. This provides peace of mind with no out-of-pocket expense for the first three years, and is available on our most popular gas and electric models. This plan ensures a hassle-free water heater experience.

Sign up for Elite Service in three easy steps.

1. Confirm your heater(s) eligibility by entering the model and serial number of your heater(s) at www.stateconnect.com; click on compatible products.
2. Purchase and install an iCOMM monitoring system and subscription.
3. Call 1-888-WATER02 to start your hassle-free service plan.

* iCOMM Elite service plan requires a three year service subscription of \$300 annually. Installation charges are the customer's responsibility. The plan must be started within 90 days of the heater installation. Other restrictions apply.

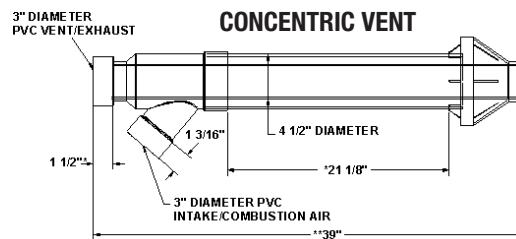
ULTRA FORCE™
 SUF Series – Up to 96% Thermal Efficiency, Standard Power-Vent or Power Direct-Vent Operation, State-of-the-Art Electronic Control



- Up to 96% thermal efficiency – our most efficient gas water heater delivers higher output with lower input than larger conventional units
- Advanced LCD control panel, with status and fault indicating display icons, digital temperature and plain English mode display
 - iCOMM™ Compatible and can be monitored from remote locations. Call 1.888.WATER02 for more information.
- Venting options (up to 50' with 3" PVC pipe, 120' with 4" PVC pipe, for 300/400 up to 70' with 4" pipe)
 - Conventional power-venting horizontal or vertical
 - Sealed power direct-vent, horizontal or vertical, draws all combustion air from outside
 - Concentric vent capable
- Optional concentric vent kit
 - SUF 60 120 NE(A) - SUF 130 300NE(A) vent kit p/n 9006328005
 - SUF 130 400NE(A) and SUF 130 500 NE(A) vent kit p/n 9006144005
- Zero clearance to combustibles on all sides, combustible floor approval
- Combustion air blower, all controls and gas valves located on top of unit for protection against high water
- Installs with 3" or 4" Schedule 40 PVC pipe, depending on model and length of vent runs
- ASME tank construction available on all models
- Low NOx emissions – all models comply with SCAQMD Rule 1146.2 and Air Quality Management Districts with similar requirements for low NOx emissions
- Maximum hydrostatic working pressure: 160 psi

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL/PROPANE	THERMAL EFFICIENCY	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)
				80° RISE	100° RISE	HEIGHT	DIAMETER	
SUF60 120NE	60	120,000	95%	173	138	55-1/2	27-3/4	460
SUF60 120NEA	60	120,000	95%	173	138	55-1/2	27-3/4	490
SUF100 150NE	100	150,000	95%	216	173	75-1/2	27-3/4	555
SUF100 150NEA	100	150,000	95%	216	173	75-1/2	27-3/4	595
SUF100 199NE	100	199,900	95%	288	230	75-1/2	27-3/4	555
SUF100 199NEA	100	199,900	95%	288	230	75-1/2	27-3/4	595
SUF100 250NE*	100	250,000	95%	360	288	75-1/2	27-3/4	555
SUF100 250NEA	100	250,000	95%	360	288	75-1/2	27-3/4	595
SUF130 300NE	130	300,000	96%	436	349	75-1/2	33-1/8	855
SUF130 300NEA	130	300,000	96%	436	349	75-1/2	33-1/8	855
SUF130 400NE	130	399,900	96%	582	466	75-1/2	33-1/8	855
SUF130 400NEA	130	399,900	96%	582	466	75-1/2	33-1/8	855
SUF130 500NE	130	499,900	96%	720	576	75-1/2	33-1/2	855
SUF130 500NEA	130	499,900	96%	720	576	75-1/2	33-1/2	855

Electrical characteristics - 120V - 60Hz A.C., 5.0A
 Add \$40.00 to price for propane models. Change "N" to "P" in model number for propane.
 "A" in model represents ASME construction.
 Concentric Vent kit for SUF60-120 through 130-300 – 9006328005
 Concentric Vent kit for SUF130-400 and SUF130-500 - 9006144005
 Vents using PVC, ABS or CPVC pipe.



FORCE™ 90+

For Light-Duty Applications – 96% Thermal Efficiency, 50-Gallon/100,000 BTU, Power-Direct Vent Design, Natural Gas & Propane Advanced Electronic Control



- Fully submerged helical coil heat exchanger produces up to 96% thermal efficiency
- Advanced electronic control provides large LCD display, precise temperature control & advanced diagnostics – iCOMM™ Compatible and can be monitored from remote locations. Call 1.888.WATER02 for more information.
- 100,000 BTU input results in 164-gallon first hour delivery, 116 GPH recovery at 100° F rise
- Power vent capabilities up to 128 equivalent feet, using 2" or 3" PVC pipe
- Concentric vent capable
- Optional concentric vent kit – Vent kit p/n 9006328005
- Side-mounted recirculating taps for “combination” systems
- Top-fired burner system
- Heavy-duty dual anode rods
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help reduce lime and sediment buildup
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 st HOUR DELIVERY GALLONS	RECOVERY – GPH @ DEGREE F RISE			DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)
				40° RISE	100° RISE	140° RISE	HEIGHT	DIAMETER	
SHE50 100NE	50	100,000	164	291	116	83	66-3/4	22	255

Maximum vent distances:
 Using 2" PVC pipe: 45 equivalent feet
 Using 3" PVC pipe: 128 equivalent feet

FORCE™ 90
 For Light-Duty Applications
 90% Thermal Efficiency 50-Gallon/76,000 BTU, Power Vent Design



- Fully submerged helical coil heat exchanger produces 90% thermal efficiency
- 76,000 BTU input results in 123 gallon first hour delivery, 83 GPH recovery
- Power-vent capabilities up to 128 equivalent feet
- Concentric vent capable
- Optional concentric vent kit – Vent kit p/n 9003910105
- Side-mounted recirculating taps for “combination” systems
- Intelli-Vent™ power gas control valve with silicon nitride hot surface ignitor
- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- Heavy-duty dual anode rods
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help reduce lime and sediment buildup
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 st HOUR DELIVERY GALLONS @ 100° F RISE	RECOVERY – GPH @ DEGREE F RISE			DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)
				40° RISE	100° RISE	140° RISE	HEIGHT	DIAMETER	
SHE50 76NE	50	76,000	123	206	83	59	70-5/8	22	210

Maximum vent distances:
 Using 2" PVC pipe: 45 equivalent feet
 Using 3" PVC pipe: 128 equivalent feet

Intelli-Vent is a registered trademark of Emerson Electric Company



SANDBLASTER®
 SBS Series – Light Duty
 SBD Series – Automatic Flue Damper



SBS series features

- Standing pilot
- CSA Certified and ASME Rated T&P Relief Valve
- Low NOx burner meets SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for low NOx emissions
- Three-year limited tank warranty
- Maximum hydrostatic working pressure: 160 psi

SBD series features

- Self-cleaning feature – reduces harmful sediment buildup inside tank; SBD series features Hydro Cannon™ design
- Energy-saving automatic flue damper with 360° rotation service switch
- Front, top or rear water connection options – self-cleaning Hydro Cannon functions only when front cold water connection is used
- Low-profile design – fits in tight spaces
- Thermostat dual controller reduces thermal stacking inside tank
- On/Off power switch
- Intermittent electronic ignition eliminates pilot
- Multiple anode rods with stainless steel cores for longer life
- Tank inspection port/cleanout
- 80% thermal efficiency – meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IESNA 90.1
- Three-year limited warranty
- Maximum hydrostatic working pressure: 160 psi

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 st HOUR DELIVERY GALLONS @ 100° F RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES TO TOP OF THE DRAFT HOOD		APPROX. SHIPPING WEIGHT (LBS.)	
				80° RISE	100° RISE	HEIGHT	DIAMETER	STANDARD	ASME
SBS LIGHT-DUTY MODELS									
SBS65 65NE	65	65,000	106	75	60	65	24	240	–
SBS75 76NE	74	75,100	125	91	73	61-1/8	26-1/2	271	–
SBS100 76NE	98	75,100	142	91	73	69-3/4	26-1/2	350	–
SBD MODELS, WITH AUTOMATIC FLUE DAMPER									
SBD71 120NE	71	120,000	166	145	116	69-3/4	27-3/4	400	–
SBD81 154NE	81	154,000	206	187	149	73	27-3/4	470	–
SBD81 180NE	81	180,000	232	218	175	67-1/2	27-3/4	470	–
SBD81 199NE	81	199,000	241	230	184	67-1/2	27-3/4	470	–
SBD100 199NET	100	199,000	263	241	193	75	27-3/4	603	–
SBD100 199NE	100	199,000	263	241	193	75	27-3/4	603	–
SBD100 199NES*	100	199,000	263	241	193	72	30-1/4	630	724
SBD100 250NE*	100	250,000	312	303	242	72	30-1/4	630	724
SBD65 251NE*	65	251,000	289	304	243	75	27-3/4	750	862
SBD100 275NE*	100	275,000	337	333	267	72	27-3/4	630	724
SBD65 305NE*	65	305,000	342	370	296	75	27-3/4	750	862
SBD100 365NE*	85	365,000	414	442	354	79-1/2	27-3/4	725	833
SBD100 390NE	100	390,000	458	485	378	75-1/2	30-1/4	760	874
SBD85 500NE†	85	500,000	545	606	485	82-1/4	27-3/4	820	856

*Available with ASME tank construction. To order ASME construction, add "A" to model number (SBD100 199NES A)

†Induced draft design, Category I venting

SANDBLASTER®
SBD30 Series – Boosters



- State Hydro Cannon™ self-cleaning device
- Induced-draft design
- Rated as Category I appliance
- Multiple anode rods
- Three water connection options
- Intermittent electronic ignition
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 160 psi
- 80% thermal efficiency
- Meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IESNA 90.1

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 st HOUR DELIVERY GALLONS @ 100° F RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (POUNDS)	
				80° RISE	100° RISE	HEIGHT	DIAMETER	STANDARD	ASME
SBD30 MODELS									
SBD30 150 NE	32	150,000	167	364	145	45	27-3/4	400	440
SBD30 199 NE	32	199,000	216	485	194	45	27-3/4	400	440

Available with ASME tank construction. To order ASME construction, add "A" to model number (SBD30 199 NE A)

SANDBLASTER®
SBN Series – Low-NOx Induced Draft



- Hydro Cannon™ self-cleaning feature – reduces harmful sediment buildup inside tank
- Built-in induced-draft blower – no draft hood or barometric damper required
- Low NOx emissions – complies with SCAQMD Rule 1146.2 and other Quality Management Districts with similar requirements for low NOx emissions
- Front, top or rear water connection options
- On/Off power switch
- Intermittent ignition device eliminates standing pilot
- ASME tank construction available on 200,000 through 390,000 BTU models
- Anode rods with stainless steel core
- Tank inspection port
- Maximum hydrostatic working pressure: 160 psi

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 st HOUR DELIVERY GALLONS @ 100° F RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)	
				80° RISE	100° RISE	HEIGHT	DIAMETER	STANDARD	ASME
SBN71 120NE	71	120,000	166	144	115	63	27-3/4	520	–
SBN81 154NE	81	154,000	206	185	148	68	27-3/4	550	–
SBN95 199NE**†	93	199,000	263	239	191	72	27-3/4	620	–
SBN100 180NE	100	180,000	245	218	173	70	27-3/4	550	–
SBN100 199NE	100	199,000	263	239	191	67	27-3/4	620	–
SBN100 200NES*	100	200,000	263	239	191	72	27-3/4	660	710
SBN100 250NE*	100	250,000	312	300	240	72	27-3/4	660	710
SBN100 275NE*	100	275,000	337	332	264	72	27-3/4	660	710
SBN85 310NE*+	85	310,000	360	372	297	73	27-3/4	720	770
SBN85 366NE*	85	366,000	415	439	351	73	27-3/4	830	880
SBN85 390NE*	85	390,000	438	468	374	73	27-3/4	830	880

*Available with ASME tank construction. To order ASME construction, add "A" to model number (SBN100 200NES **A**)

**SBN 95 199NE for sale in California only

+Meets 82% TE Utility Rebate

SANDBLASTER® FORCE™
Power Direct Vent



- Non-condensing, up to 85% thermal efficiency
- Self-cleaning feature – reduces harmful sediment buildup inside tank
- Power direct vent design draws all combustion make-up air from outside, eliminates negative air pressure problems
- Installs with 3" Schedule 40 PVC pipe
- On/Off power switch
- Intermittent electronic ignition
- Maximum hydrostatic working pressure: 150 psi

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 st HOUR DELIVERY GALLONS @ 100° F RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)
				80° RISE	100° RISE	HEIGHT	DIAMETER	
SDV75 70NE	75	70,000	117	81	64	69-5/8	26	352

To order propane, change "N" to "P" in model number (SDV75 70PE)

STATE TITAN®
Power Burner, GPG Series – Natural or Propane Gas,
GPV Direct Vent Series – Natural or Propane Gas



- First hour deliveries from 193 to 778 gallons
- Recoveries (100° Rise) from 136 to 718 GPH
- UL listed power gas burner with electronic flame monitoring, direct-spark ignition, redundant gas valves
- GPG models are atmospheric vent, also available as horizontal and direct vent GPV models



GPO Series Oil

- First hour deliveries from 253 to 727 gallons
- Recoveries (100° Rise) from 193 to 679 GPH
- UL listed oil burner, for No. 1 and No. 2 commercial-grade fuel oil
- Burner observation port

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 st HOUR DELIVERY GALLONS @ 100° F RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES			APPROX. SHIPPING WEIGHT (LBS.)
				80° RISE	100° RISE	HEIGHT	WIDTH	DEPTH	

GPG Series Natural or Propane Gas*

GPG 81 140NE	81	140,000	193	168	136	85-1/4	27-3/4	38	556
GPG 81 140NEA †	81	140,000	193	168	136	85-1/4	27-3/4	38	658
GPG 81 199NE	81	199,000	250	238	193	85-1/4	27-3/4	38	545
GPG 81 199NEA †	81	199,000	250	238	193	85-1/4	27-3/4	38	635
GPG 81 270NE	81	270,000	319	324	262	85-1/4	27-3/4	38	547
GPG 81 270NEA †	81	270,000	319	324	262	85-1/4	27-3/4	38	632
GPG 81 370NE	81	370,000	416	444	359	85-1/4	27-3/4	38	634
GPG 81 370NEA †	81	370,000	416	444	359	85-1/4	27-3/4	38	731
GPG85 540NEA***	85	540,000	583	655	523	80-3/4	29-1/2	48-1/2	950
GPG85 650NEA***	85	650,000	690	788	630	80-3/4	29-1/2	48-1/2	950
GPG85 740NEA***	85	740,000	778	897	718	80-3/4	29-1/2	48-1/2	950

GPO Series Oil

GPO 86 1990E	86	199,000	253	241	193	74-3/4	27-3/4	37	568
GPO 86 2450E	86	245,000	298	297	238	74-3/4	27-3/4	37	557
GPO 84 3150E**	84	315,000	363	382	305	74-3/4	27-3/4	37	557
GPO 75 3850E**	75	385,000	425	467	373	74-3/4	27-3/4	37	638
GPO 75 4550E**	75	455,000	493	552	441	74-3/4	27-3/4	37	647
GPO 69 7000E**	69	700,000	727	848	679	79-3/4	27-3/4	37	739

*For propane gas models, change "N" to "P" in model number (GPG 81 140PE)

**Available with ASME tank construction. To order, add "A" to model number (GPO 84 3150E A)

***Available as "GPV" Direct Vent models. To order, change "GPG" to "GPV" in model number (GPV85 540NEA)

† Indicates ASME tank construction

STATE TITAN® LV

Large-Volume, Power Burner, TPG Series – Natural or Propane Gas, TPO Series – Oil, TPD Series – Gas/Oil “Dual Fuel”, TPX Series – Low NOx Natural Gas



- High storage and inputs make State Titan LV a great choice for large hotels, hospitals and other high-demand installations
- Installs in much smaller footprint than comparable-output boiler/storage tank installations, or conventional commercial gas water heaters installed in multiples
- UL listed power gas burner with electronic flame safeguard controls, intermittent electronic ignition, automatic gas valves, diaphragm air switch for proof of blower operation
- First hour deliveries from 256 to 2,904 gallons
- Recoveries (100° Rise) from 136 to 2,424 GPH
- Burner observation port
- Rated as Category I appliances, can be commonly vented with other Category I appliances, using Type “B” metal venting
- Low NOx “TPX” models comply with Texas requirements for low NOx emissions

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 ST HOUR DELIVERY GALLONS @ 100° F RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES				APPROX. SHIPPING WEIGHT (LBS.)
				80° RISE	100° RISE	HEIGHT	WIDTH	DEPTH	VENT	
TPG 150 140 NEA	150	140,000	256	170	136	82-1/4	36-1/2	47	5	1292
TPG 150 199 NEA	150	199,000	313	241	193	82-1/4	36-1/2	47	6	1292
TPG 150 255 NEA	150	255,000	367	359	247	82-1/4	36-1/2	47	6	1292
TPG 150 270 NEA	150	270,000	382	327	262	82-1/4	36-1/2	57-1/2	6	1397
TPG 150 400 NEA*	150	400,000	507	485	387	82-1/4	36-1/2	57-1/2	7	1397
TPG 150 540 NEA*	150	540,000	644	654	524	82-1/4	36-1/2	57-1/2	8	1505
TPG 150 720 NEA*	150	720,000	818	873	698	82-1/4	36-1/2	57-1/2	10	1510
TPG 200 300 NEA*	200	300,000	451	364	291	84-1/2	44-3/4	66-1/2	6	2098
TPG 200 600 NEA*	200	600,000	742	727	582	84-1/2	44-3/4	66-1/2	8	2098
TPG 200 800 NEA*	200	800,000	936	970	776	84-1/2	44-3/4	66-1/2	10	2103
TPG 200 1000 NEA*	200	1,000,000	1130	1212	970	84-1/2	44-3/4	66-1/2	10	2103
TPG 200 1250 NEA*	200	1,250,000	1372	1515	1212	84-3/4	44-3/4	66-1/2	12	2467
TPG 200 1500 NEA*	200	1,500,000	1615	1818	1455	84-3/4	44-3/4	81-1/2	12	2675
TPG 300 300 NEA*	300	300,000	531	364	291	92	44-3/4	66-1/2	6	2150
TPG 300 600 NEA*	300	600,000	822	727	582	92	44-3/4	66-1/2	8	2150
TPG 300 800 NEA*	300	800,000	1016	970	776	92	44-3/4	66-1/2	10	2308
TPG 300 1000 NEA*	300	1,000,000	1210	1212	970	92	44-3/4	66-1/2	10	2308
TPG 300 1250 NEA*	300	1,250,000	1452	1515	1212	92	44-3/4	66-1/2	12	2584
TPG 300 1500 NEA*	300	1,500,000	1695	1818	1455	92	44-3/4	81-1/2	12	2774

Additional models continued on next page

STATE TITAN® LV

Continued from previous page

MODEL NUMBER	GAL. CAP.	BTU INPUT PER HOUR NATURAL	1 st HOUR DELIVERY GALLONS @ 100° F RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES				APPROX. SHIPPING WEIGHT (LBS.)
				80° RISE	100° RISE	HEIGHT	WIDTH	DEPTH	VENT	
TPG 400 600 NEA*	400	600,000	902	727	582	89	55	76-1/2	8	3207
TPG 400 800 NEA*	400	800,000	1096	970	776	89	55	76-1/2	10	3212
TPG 400 1000 NEA*	400	1,000,000	1290	1212	970	89	55	76-1/2	10	3212
TPG 400 1250 NEA*	400	1,250,000	1532	1515	1212	89	55	76-1/2	12	3212
TPG 400 1500 NEA*	400	1,500,000	1775	1816	1455	89	55	91-1/2	12	3402
TPG 400 1750 NEA*	400	1,750,000	2017	2121	1697	89	55	91-1/2	14	3528
TPG 400 2000 NEA*	400	2,000,000	2259	2424	1939	96-1/4	55	91-1/2	14	3669
TPG 500 2250 NEA	500	2,250,000	2582	2727	2182	108	55	91-1/2	16	4277
TPG 500 2500 NEA	500	2,500,000	2824	3030	2424	108	55	91-1/2	16	4419
TPG 600 720 NEA*	600	720,000	1178	873	698	114	55	76-1/2	10	3667
TPG 600 1000 NEA*	600	1,000,000	1450	1212	970	114	55	76-1/2	10	3667
TPG 600 1250 NEA*	600	1,250,000	1692	1515	1212	114	55	76-1/2	12	3667
TPG 600 1500 NEA*	600	1,500,000	1935	1816	455	114	55	91-1/2	12	3837
TPG 600 1750 NEA*	600	1,750,000	2177	2121	1697	114	55	91-1/2	14	3837
TPG 600 2000 NEA*	600	2,000,000	2419	2424	1939	114	55	91-1/2	14	3837
TPG 600 2250 NEA	600	2,250,000	2662	2727	2182	114	55	91-1/2	16	4477
TPG 600 2500 NEA	600	2,500,000	2904	3030	2424	114	55	91-1/2	16	4619

For propane gas, change "NEA" to "PEA" (TPG150 140 **PEA**)

For oil, change "TPG" to "TPO" and change "NEA" to "OEA" (**TPO**150 140**OEA**)

On "TPO" models, add 100 pounds to Approx. Shipping Weight for natural gas/oil dual-fuel, change "TPG" to "TPD" and change "NEA" to "ONEA" (**TPD**150 140**ONEA**)

For propane gas/oil dual-fuel, change "TPG" to "TPD" and change "NEA" to "OPEA" (**TPD**150 140**OPEA**)

*Indicates availability as "TPX" low NOx natural gas model

Change "TPG" to "TPX" (**TPX**150 400NEA)

PATRIOT™
PCE Series – Light-Duty Electric



- Ideal for the hot water needs of small to medium demand applications
- For under counter installation, 6 through 50-gallon Compact and Lowboy models offer heights from 15-1/2” to 32-1/4”
- Direct-immersion threaded heating elements
- Interlock or simultaneous wiring on double element models
- 180° surface-mounted thermostats on double element models
- Shipped with standard wattages shown below unless other wattages are specified when ordering. See detailed product specifications for available wattages at different voltages.

MODEL NUMBER	GAL. CAP.	STANDARD ELEMENT WATTAGE – kW		MAXIMUM ELEMENT WATTAGE – kW		RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)
		120V	208V	120V	240V	90° RISE	100° RISE	HEIGHT	DIAMETER	
COMPACT MODELS										
PCE 6 10MSA	6	1.5	–	3	3.5	18	16	15-1/2	14-1/4	35
PCE 10 10MSA	10	1.5	–	3	6	28	25	18-1/4	18	54
PCE 17 10MSA	15	1.5	–	3	6	28	25	26	18	58
PCE 20 10MSA	20	1.5	–	3	6	28	25	21-3/4	21-1/4	73
LOWBOY MODELS										
PCE 30 20LSA*	30	–	4.5	3	6	28	25	30-7/8	21-3/4	100
PCE 40 20LSA*	40	–	4.5	3	6	28	25	32-1/4	24	125
PCE 50 20LSA*	50	–	4.5	3	6	28	25	32-1/4	26-1/2	166
TALL MODELS										
PCE 30 20RTA*	30	–	4.5	3	6	28	25	34-1/2	20-1/2	98
PCE 40 20RTA*	40	–	4.5	3	6	28	25	45-1/8	20-1/2	113
PCE 52 20RTA*	50	–	4.5	3	6	28	25	57-7/8	20-1/2	131
PCE 66 20RTA*	66	–	4.5	3	6	28	25	60-3/4	21-1/2	176
PCE 82 20RTA*	80	–	4.5	3	6	28	25	59-3/8	24	211
PCE 120 20RTA*	119	–	4.5	3	6	28	25	62-3/8	29-3/8	326

*Indicates double-element model
Recovery based on maximum wattage – single-element or interlocked double
Element 240V models



SANDBLASTER®
CSB 52, 82 and 120 Immersion Mount Thermostats



- Advanced Electronic Control - Plain English text and animated icons displays detailed operational and diagnostic information. Fault or Alert messages appear if an operational issue occurs. Immersion temperature control adjustable through a range of 90°F to 190°F.
– iCOMM™ compatible and can be monitored from remote locations. Call 1.888.WATER02 for more information.
- Economy Mode Operation - Control system automatically lowers the Operating Set Point by a programmed value during user-defined time periods. Helps reduce operating costs during unoccupied or off-peak demand periods.
- Linear Sequencing - Banks of heating elements (3 elements per bank) are energized according to adjustable (1 to 20°) differential set points for each bank. First bank on is the last bank off. Helps reduce current surge and provides accurate water temperature control.
- Gold Elements - Ships with the gold plated elements. Patented elements provide long life and superior scaling resistance. Low watt density means lower surface temperature to minimize scale buildup and more surface to heat water. Gold elements carry a one-year warranty against failure due to lime scale buildup.
- Glasslined Tank - Three sizes: 50, 80 and 119-gallon capacity. Tank interior is coated with glass specially developed for water heater use. Tanks rated at 150 psi (1034 kPa) working pressure (ASME 150 psi). Foam insulation reduces costly heat loss, and is vermin proof.
- Fusing - Protects all elements, thermostats, and internal wiring circuits against excess current flow. Meets National Electrical Code requirements that non-ASME tanks must have internal fusing when current draw exceeds 48 amps.
- Standard Voltages - 208, 240 and 480V single-phase and three-phase delta. Convertible from three-phase to single-phase (in field) and vice versa. 277V single-phase also available.
- Terminal Block - Factory installed. Just bring the service to the heater and connect to block.
- Magnetic Contactors - Heavy duty, UL rated 100,000 cycles

MODEL NUMBER	TOTAL WATTAGE	kW INPUT	NUMBER OF ELEMENTS	1 st HOUR DELIVERY GALLONS @ 100° RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES			APPROX. SHIPPING WEIGHT (LBS.)
					80° RISE	100° RISE	HEIGHT	DIAMETER	OVERALL DEPTH	
50-GALLON MODELS										
CSB 52 6 IFE	6,000	6	3	61	31	25	55-3/4	21-3/4	27	265
CSB 52 9 IFE	9,000	9	3	73	46	37	55-3/4	21-3/4	27	265
CSB 52 12 IFE	12,000	12	3	85	61	49	55-3/4	21-3/4	27	265
CSB 52 135 IFE	13,500	13.5	3	91	69	55	55-3/4	21-3/4	27	265
CSB 52 15 IFE	15,000	15	3	97	77	61	55-3/4	21-3/4	27	265
CSB 52 18 IFE	18,000	18	3*	109	92	74	55-3/4	21-3/4	27	265
CSB 52 24 IFE	24,000	24	6	122	123	98	55-3/4	21-3/4	27	265
CSB 52 27 IFE	27,000	27	6	146	138	111	55-3/4	21-3/4	27	265
CSB 52 30 IFE	30,000	30	6	159	154	123	55-3/4	21-3/4	27	265
CSB 52 36 IFE	36,000	36	6*	183	184	148	55-3/4	21-3/4	27	265
80-GALLON MODELS										
CSB 82 6 IFE	6,000	6	3	61	31	25	60-1/4	25-1/2	31	280
CSB 82 9 IFE	9,000	9	3	73	46	37	60-1/4	25-1/2	31	280
CSB 82 12 IFE	12,000	12	3	85	61	49	60-1/4	25-1/2	31	280
CSB 82 135 IFE	13,500	13.5	3	91	69	55	60-1/4	25-1/2	31	280
CSB 82 15 IFE	15,000	15	3	97	77	61	60-1/4	25-1/2	31	280
CSB 82 18 IFE	18,000	18	3*	109	92	74	60-1/4	25-1/2	31	280
CSB 82 24 IFE	24,000	24	6	122	123	98	60-1/4	25-1/2	31	280
CSB 82 27 IFE	27,000	27	6	146	138	111	60-1/4	25-1/2	31	280
CSB 82 30 IFE	30,000	30	6	159	154	123	60-1/4	25-1/2	31	280
CSB 82 36 IFE	36,000	36	6*	183	184	148	60-1/4	25-1/2	31	280
CSB 82 405 IFE	40,500	40.5	9	222	208	166	60-1/4	25-1/2	31	280
CSB 82 45 IFE	45,000	45	6	219	230	184	60-1/4	25-1/2	31	280
CSB 82 54 IFE	54,000	54	6	256	277	221	60-1/4	25-1/2	31	280

119-gallon models are continued on next page

CSB Series

Continued from previous page

MODEL NUMBER	TOTAL WATTAGE	kW INPUT	NUMBER OF ELEMENTS	1 st HOUR DELIVERY GALLONS @ 100° RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES			APPROX. SHIPPING WEIGHT (LBS.)
					80° RISE	100° RISE	HEIGHT	TANK DIAMETER	DEPTH WITH JUNCTION BOX	
119-GALLON MODELS										
CSB 120 6 IFE	6,000	6	3	61	31	25	62-1/4	29-1/2	35	390
CSB 120 9 IFE	9,000	9	3	73	46	37	62-1/4	29-1/2	35	390
CSB 120 12 IFE	12,000	12	3	85	61	49	62-1/4	29-1/2	35	390
CSB 120 135 IFE	13,500	13.5	3	91	69	55	62-1/4	29-1/2	35	390
CSB 120 15 IFE	15,000	15	3	97	77	61	62-1/4	29-1/2	35	390
CSB 120 18 IFE	18,000	18	3*	109	92	74	62-1/4	29-1/2	35	390
CSB 120 24 IFE	24,000	24	6	122	123	98	62-1/4	29-1/2	35	390
CSB 120 27 IFE	27,000	27	6	146	138	111	62-1/4	29-1/2	35	390
CSB 120 30 IFE	30,000	30	6	159	154	123	62-1/4	29-1/2	35	390
CSB 120 36 IFE	36,000	36	6*	183	184	148	62-1/4	29-1/2	35	390
CSB 120 405 IFE	40,500	40.5	9	222	208	166	62-1/4	29-1/2	35	390
CSB 120 45 IFE	45,000	45	9	219	230	184	62-1/4	29-1/2	35	390
CSB 120 54 IFE	54,000	54	9	256	277	221	62-1/4	29-1/2	35	390

*208 volt models may contain 3 additional elements
 To order ASME tank construction, add "A" to model number (CSB 52 6 IFE **A**)
 All models have 1-1/4" NPT inlet and outlet connections





SANDBLASTER®
CSB 52, 82 and 120 Surface Mount Thermostats



- Gold Elements - CSB models ship with the gold plated elements. Patented gold elements provide long life and superior scaling resistance. Low watt density means lower surface temperature to minimize scale buildup and more surface to heat water. Gold elements carry a one-year warranty against failure due to lime scale buildup.
- Glasslined Tank - Three sizes: 50, 80 and 119-gallon capacity. Tank interior is coated with glass specially developed for water heater use. Tanks rated at 150 psi (1034 kPa) working pressure (ASME 150 psi). Foam insulation reduces costly heat loss, and is vermin proof.
- Fusing - Protects all elements, thermostats, and internal wiring circuits against excess current flow. Meets National Electrical Code requirements that non-ASME tanks must have internal fusing when current draw exceeds 48 amps.
- Standard Voltages - 208, 240 and 480V single-phase and three-phase delta. Convertible from three-phase to single-phase (in field) and vice versa. 277V single-phase also available.
- Terminal Block - Factory installed. Just bring the service to the heater and connect to block.
- Controls - One temperature control (adjustable through a range of 120° to 180°F) and manual reset high temperature cut-off per element. Thermostat step control may be achieved by varying settings on individual temperature controls. Located behind hinged control compartment door for quick, easy access.

MODEL NUMBER	TOTAL WATTAGE	kW INPUT	NUMBER OF ELEMENTS	1 st HOUR DELIVERY GALLONS @ 100° RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES			APPROX. SHIPPING WEIGHT (LBS.)
					80° RISE	100° RISE	HEIGHT	DIAMETER	OVERALL DEPTH	
50-GALLON MODELS										
CSB 52 6 SFE	6,000	6	3	61	31	25	55-3/4	21-3/4	27	265
CSB 52 9 SFE	9,000	9	3	73	46	37	55-3/4	21-3/4	27	265
CSB 52 12 SFE	12,000	12	3	85	61	49	55-3/4	21-3/4	27	265
CSB 52 135 SFE	13,500	13.5	3	91	69	55	55-3/4	21-3/4	27	265
CSB 52 15 SFE	15,000	15	3	97	77	61	55-3/4	21-3/4	27	265
CSB 52 18 SFE	18,000	18	3*	109	92	74	55-3/4	21-3/4	27	265
CSB 52 24 SFE	24,000	24	6	122	123	98	55-3/4	21-3/4	27	265
CSB 52 27 SFE	27,000	27	6	146	138	111	55-3/4	21-3/4	27	265
CSB 52 30 SFE	30,000	30	6	159	154	123	55-3/4	21-3/4	27	265
CSB 52 36 SFE	36,000	36	6*	183	184	148	55-3/4	21-3/4	27	265
80-GALLON MODELS										
CSB 82 6 SFE	6,000	6	3	61	31	25	60-1/4	25-1/2	31	280
CSB 82 9 SFE	9,000	9	3	73	46	37	60-1/4	25-1/2	31	280
CSB 82 12 SFE	12,000	12	3	85	61	49	60-1/4	25-1/2	31	280
CSB 82 135 SFE	13,500	13.5	3	91	69	55	60-1/4	25-1/2	31	280
CSB 82 15 SFE	15,000	15	3	97	77	61	60-1/4	25-1/2	31	280
CSB 82 18 SFE	18,000	18	3*	109	92	74	60-1/4	25-1/2	31	280
CSB 82 24 SFE	24,000	24	6	122	123	98	60-1/4	25-1/2	31	280
CSB 82 27 SFE	27,000	27	6	146	138	111	60-1/4	25-1/2	31	280
CSB 82 30 SFE	30,000	30	6	159	154	123	60-1/4	25-1/2	31	280
CSB 82 36 SFE	36,000	36	6*	183	184	148	60-1/4	25-1/2	31	280
CSB 82 405 SFE	40,500	40.5	9	222	208	166	60-1/4	25-1/2	31	280
CSB 82 45 SFE	45,000	45	6	219	230	184	60-1/4	25-1/2	31	280
CSB 82 54 SFE	54,000	54	6	256	277	221	60-1/4	25-1/2	31	280

119-gallon models are continued on next page

CSB Series

Continued from previous page

MODEL NUMBER	TOTAL WATTAGE	KW INPUT	NUMBER OF ELEMENTS	1 ST HOUR DELIVERY GALLONS @ 100° RISE	RECOVERY – GPH @ DEGREE F RISE		DIMENSIONS IN INCHES			APPROX. SHIPPING WEIGHT (LBS.)
					80° RISE	100° RISE	HEIGHT	TANK DIAMETER	DEPTH WITH JUNCTION BOX	
119-GALLON MODELS										
CSB 120 6 IFE	6,000	6	3	61	31	25	62-1/4	29-1/2	35	390
CSB 120 9 IFE	9,000	9	3	73	46	37	62-1/4	29-1/2	35	390
CSB 120 12 IFE	12,000	12	3	85	61	49	62-1/4	29-1/2	35	390
CSB 120 135 IFE	13,500	13.5	3	91	69	55	62-1/4	29-1/2	35	390
CSB 120 15 IFE	15,000	15	3	97	77	61	62-1/4	29-1/2	35	390
CSB 120 18 IFE	18,000	18	3*	109	92	74	62-1/4	29-1/2	35	390
CSB 120 24 IFE	24,000	24	6	122	123	98	62-1/4	29-1/2	35	390
CSB 120 27 IFE	27,000	27	6	146	138	111	62-1/4	29-1/2	35	390
CSB 120 30 IFE	30,000	30	6	159	154	123	62-1/4	29-1/2	35	390
CSB 120 36 IFE	36,000	36	6*	183	184	148	62-1/4	29-1/2	35	390
CSB 120 405 IFE	40,500	40.5	9	222	208	166	62-1/4	29-1/2	35	390
CSB 120 45 IFE	45,000	45	6	219	230	184	62-1/4	29-1/2	35	390
CSB 120 54 IFE	54,000	54	6	256	277	221	62-1/4	29-1/2	35	390

*208 volt models may contain 3 additional elements
 To order ASME tank construction, add "A" to model number (CSB 52 6 IFE **A**)
 All models have 1-1/4" NPT inlet and outlet connections





STATESMAN™
SSE Series – Premium Heavy-Duty Electric



- Glasslined tank
- 150 PSI (5 thru 50 gallons)
- 125 PSI (65 thru 120 gallons)
- Anodic protection
- Terminal block on units with more than one (1)
- Advanced Electronic Control
 - iCOMM™ Compatible and can be monitored from remote locations. Call 1.888.WATER02 for more information.
- Low water cutoff
- Jacket with baked enamel finish
- Incoloy sheath immersion elements with prewired terminal leads
- Magnetic contactor
- 120 volt fused control circuit
- R-16 foam insulation
- Drain Valve and individual element fusing when current draw exceeds 120 amperes
- CSA Certified and ASME Rated T&P Relief Valve
- All models meet the standby loss requirements of the U. S. Department of Energy and Current Edition of ASHRAE/IESNA 90.1

MODEL NUMBER	GAL. CAP.	MAX. kW INPUT	DIMENSIONS IN INCHES			APPROX. SHIPPING WEIGHT (LBS.)
			HEIGHT	DIAMETER	OVERALL DEPTH	
SSE-5	5	3	20-1/4	16-1/4	22-1/2	82
SSE-10	10	6	26-1/8	18-3/4	25	116
SSE-20	20	18	27	20-1/2	26-1/2	146
SSE-30	30	24	38	20-1/2	26-1/2	162
SSE-40	40	36	45-1/2	20-1/2	26-1/2	206
SSE-50	50	90	54-1/2	20-1/2	26-1/2	236
SSE-65	65	90	53-1/2	26-1/2	33-1/2	294
SSE-80	80	90	52-1/4	28	35	310
SSE-100	100	90	61	28	35	354
SSE-120	120	90	65	30	37	420

RECOVERIES AT AVAILABLE kW INPUTS

AVAILABLE kW INPUTS	RECOVERY – GPH @ DEGREE F RISE		
	80° RISE	100° RISE	140° RISE
3	15	12	9
6	31	25	18
9	46	37	26
12	61	49	35
15	77	61	44
18	92	74	53
24	123	98	70
30	154	123	88
36	184	148	105
45	230	184	132
54	277	221	158
60*	307	246	176
75*	384	307	219
90*	461	369	263

*Available on 5-gallon models or larger

SEH 200 THRU 10,000



- Available in gallon sizes from 150 to 10,000
- Available in power input from 15 kW to 3,000 kW

ADVANCED ELECTRONIC CONTROL – State's new propriety electronic water heater control, provides precise + or - 1°F temperature control, that is ideal for industrial and food service applications where exact temperatures of hot water are needed.

- **PLAIN TEXT** – Animated icons display detailed operational and diagnostic information. Fault or Alert messages appear if an operational issue occurs.
- **LOW WATER CUT OFF** – Factory standard on board low water cut-off uses a remote electronic immersion type probe to prevent energizing of the elements in the event of low water condition and eliminates accidental dry firing.
- **PROGRESSIVE MODULATING** – Sizes the input of available elements to match current load conditions. Rotates and lead lags element loads to provide long life and equal wear.
- **ECONOMY MODE OPERATION** – Control system automatically lowers the operating set point by a programmed value during user defined time periods. Seven-day clock may be programmed for night set back and or weekend shutdown to reduce operating cost and save money.
- **iCOMM™ COMPATIBLE** - Units can be monitored from remote locations. Call 1.888.WATER02 for more information. Note: Units over 150kW use analog controls.

SOLID STATE MODULATING STEP CONTROL (All Models 180kW and up) – Solid state electronic control device that modulates input to match load through progressive sequencing of steps (up to 20 steps with maximum of one per contactor).

INCOLOY IMMERSION HEATERS – Heavy-duty medium watt density elements (three/immersion heater) have incoloy sheathing: provide excellent protection against oxidation and scaling. The input ranges from 15kW to 3000kW (see accompanying chart).

GLASSLINED TANK – Tank interior is coated with glass specially developed for use in water heaters. Tanks rated at 125 psi working pressure; 150 psi or 160 psi working pressure is optional. Vermin proof fiber glass insulation reduces costly heat loss. Constructed to Section IV of ASME code, and UL standards. Tanks have channel skid base. A 4" x 6" handhole is furnished on 500, 600 and 700-gallon models; 11" x 15" manhole is furnished on 800-gallon and larger sizes.

FUSING – Control and power circuit fusing to meet N.E.C.

COMPLIANCE – Meets the standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1.

MAGNETIC CONTACTOR(S) – Heavy duty UL rated for 100,000 cycles.

SEV 150 THRU 10,000



ADVANCED ELECTRONIC CONTROL – State's new propriety electronic water heater control, provides precise + or - 1°F temperature control, that is ideal for industrial and food service applications where exact temperatures of hot water are needed.

- **PLAIN TEXT** – Animated icons display detailed operational and diagnostic information. Fault or Alert messages appear if an operational issue occurs.

- **LOW WATER CUTOFF** – Factory standard on board low water cut-off uses a remote electronic immersion type probe to prevent energizing of the elements in the event of low water condition and eliminates accidental dry firing.

- **PROGRESSIVE MODULATING** – Sizes the input of available elements to match current load conditions. Rotates and lead lags element loads to provide long life and equal wear.

- **ECONOMY MODE OPERATION** – Control system automatically lowers the operating set point by a programmed value during user defined time periods. Seven-day clock may be programmed for night set back and or weekend shutdown to reduce operating cost and save money.

- **iCOMM™ COMPATIBLE** - Units can be monitored from remote locations. Call 1.888.WATER02 for more information. Note: Units over 150kW use analog controls.

SOLID STATE MODULATING STEP CONTROL (All Models 180kW and up) – Solid state electronic control device that modulates input to match load through progressive sequencing of steps (up to 20 steps with maximum of one per contactor).

INCOLOY IMMERSION HEATERS – Heavy-duty medium watt density elements (three/immersion heater) have incoloy sheathing; provide excellent protection against oxidation and scaling. The input ranges from 15kW to 3000kW (see accompanying chart).

GLASSLINED TANK – Tank interior is coated with glass specially developed for use in water heaters. Tanks rated at 125 psi working pressure; 150 psi or 160 psi working pressure is optional. Vermin proof fiber glass insulation reduces costly heat loss. Constructed to Section IV of ASME code, and UL standards. Tanks have channel skid base. A 4" x 6" handhole is furnished on 500, 600 and 700-gallon models; 11" x 15" manhole is furnished on 800-gallon and larger sizes.

FUSING – Control and power circuit fusing to meet N.E.C.

COMPLIANCE – Meets the standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1.

MAGNETIC CONTACTOR(S) – Heavy duty UL rated for 100,000 cycles.

ALL DIMENSIONS IN INCHES

STATE MODEL*	NOMINAL GALLON CAPACITY	MAXIMUM kW INPUT	HEIGHT	WIDTH (LENGTH)	DEPTH	INSPECTION OPENING	INLET OUTLET OPENING	DRAIN OPENING	RELIEF VALVE OPENING**
HORIZONTAL ELECTIC STORAGE HEATER									
SEH-200	200	180	38-1/2	77	36	Optional	1-1/2	3/4	3/4
SEH-250	250	240	38-1/2	91	36		1-1/2	3/4	1
SEH-300	300	300	44-1/2	81	42		2	3/4	1
SEH-350	350	330	44-1/2	93	42		2	3/4	1
SEH-400	400	390	44-1/2	100	42		2	3/4	1
SEH-500	500	480	51	94	48	4" X 6" Handhole	2	1-1/4	1
SEH-600	600	600	51	109	48		2	1-1/4	1
SEH-700	700	690	51	121	48		2	1-1/4	1
SEH-800	800	780	57	111	54	11" X15" Manhole	2	1-1/2	1
SEH-1000	1000	990	61	111	60		3	1-1/2	1
SEH-1250	1250	1200	61	138	60		3	1-1/2	1
SEH-1500	1500	1500	61	150	60		3	1-1/2	1
SEH-2000	2000	1980	70	177	66		3	2	1-1/4
SEH-3000	3000	3000	76	211	72		3	2	1-1/2
SEH-5000	5000	3000	82	296	78		3	2	1-1/2
SEH-7500	7500	3000	94	317	90		4	2	1-1/2
SEH-10,000	10,000	3000	106	345	102		4	2	1-1/2
VERTICAL ELECTRIC STORAGE HEATER									
SEV-150	150	150	83-1/2	30	37	Optional	1-1/4	3/4	3/4
SEV-150L	150	150	59-1/2	36	43		1-1/4	3/4	3/4
SEV-200	200	180	79-1/2	36	43		1-1/2	3/4	3/4
SEV-250	250	240	93	36	43		1-1/2	3/4	1
SEV-300	300	300	83-1/2	42	49		2	3/4	1
SEV-350	350	330	95-1/2	42	49		2	3/4	1
SEV-400	400	390	102-1/2	42	49		2	3/4	1
SEV-500	500	480	97	48	55	4" X 6" Handhole	2	1-1/4	1
SEV-600	600	600	112	48	55		2	1-1/4	1
SEV-700	700	690	124	48	55		2	1-1/4	1
SEV-800	800	780	116	54	61	11" 15" Manhole	2	1-1/2	1
SEV-1000	1000	990	116	60	67		3	1-1/2	1
SEV-1250	1200	1200	143	60	67		3	1-1/2	1
SEV-1500	1500	1500	155	60	67		3	1-1/2	1
SEV-2000	2000	1980	183	66	73		3	2	1
SEV-3000	3000	3000	217	72	79		3	2	1-1/2
SEV-5000	5000	3000	309	78	85		3	2	1-1/2
SEV-7500	7500	3000	330	90	97		4	2	1-1/2
SEV-10,000	10,000	3000	358	102	109		4	2	1-1/2

*Complete Model Number includes the desired kW at end, e.g.: DVE-500-120 when kW = 120

**Size may vary according to kW input

Minimum installation clearances required: 30" from front, 12" from top, and 24" from right side

STORAGE TANKS

PVG Series – Vertical Jacketed & Insulated Tanks



State offers a complete selection of storage tanks for commercial applications. Bare uninsulated tanks, jacketed and insulated tanks, vertical tanks, horizontal tanks, ASME tanks, and custom tanks that can be built to your specifications...

State now has them all!

Capacities range from 80 to 12,500 gallons, and every State storage tank is covered by a five-year warranty.

- 80, 119 and 175-gallon capacities
- Glasslined tank
- Thick foam insulation
- Anode rod protects against corrosion
- Handhole cleanout on selected models
- ASME tank construction on selected models
- 5-year warranty

MODEL NUMBER	GAL. CAP.	STANDARD WORKING PRESSURE	ASME	DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)
				HEIGHT	DIAMETER	
PVG 00800 OVT	80	150	NO	63	25-1/4	236
PVG 00800 OVTA	80	160	YES	54-7/8	26-1/2	369
PVG 01200 OVT	119	150	NO	62	29-3/8	320
PVG 01200 OVT2.5	119	150	NO	62	29-3/8	320
PVG 01200 OVTA	119	160	YES	61-3/4	28	411
PVG 01200 OVTA2.5	119	160	YES	61-3/4	28	411
PVG 02000 OVSA*	175	160	YES	77	32	560
PVG 02000 OVSA2.5*	175	160	YES	77	32	560

*Equipped with handhole cleanout

PVG Series**Large-Volume Jacketed & Insulated Tanks**

- 80 through 1,000 gallon capacities
- Glasslined steel tank standard – cement and epoxy linings available
- Thick foam insulation
- Anode rod protects against corrosion
- ASME tank construction standard
- 5-year warranty

VERTICAL STORAGE TANKS

MODEL NUMBER	GALLON CAPACITY	DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)
		HEIGHT	DIAMETER	
PVG 00800 OVTA125	80	54-7/8	26-1/2	369
PVG 01200 OVTA125	120	61-3/4	28	411
PVG 01400 OVTA125	140	87	30	516
PVG 02000 OVTA125	200	83	36	612
PVG 02000 OVSA125	175	77	32	560
PVG 02500 OVTA125	250	96	36	900
PVG 03500 OVTA125	350	99	42	1080
PVG 04000 OVTA125	400	105	42	1282
PVG 05000 OVTA125	500	100	48	1369
PVG 05000 OVSA125	500	84	54	1526
PVG 07500 OVTA125	750	116	54	2395
PVG 10000 OVTA125	1000	148	54	3320

HORIZONTAL STORAGE TANKS

MODEL NUMBER	GALLON CAPACITY	DIMENSIONS IN INCHES			APPROX. SHIPPING WEIGHT (LBS.)
		HEIGHT	WIDTH	DEPTH	
PVG 02000 OHTA125	200	41	77	36	790
PVG 02500 OHTA125	250	41	90	41	1000
PVG 03500 OHTA125	350	47	93	42	1370
PVG 04000 OHTA125	400	47	99	42	1476
PVG 05000 OHTA125	500	53	94	48	1448
PVG 05000 OHSA125	500	59	79	54	1540
PVG 07500 OHTA125	750	59	111	54	2575
PVG 10000 OHTA125	1000	59	143	54	3260

UVG Series Unjacketed Tanks

- For vertical or horizontal installation – tank saddles available for horizontal installation on 140 through 1,000-gallon models
- 80 through 1,000 gallon capacities
- Glasslined tank
- Anode rod protects against corrosion
- ASME tank construction standard on all models 140 through 1,000 gallon models
- 5-year warranty

MODEL NUMBER	GAL. CAP.	WORKING PRESSURE	ASME	DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (LBS.)
				DIA.	OVERALL LENGTH	
UVG 0080 00VT	80	150	No	20	62-1/8	170
UVG 0120 00VT	120	150	No	24	62	287
UVG 0140 00VTA125	140	125	Yes	24	76-1/4	368
UVG 0200 00VT	200	150	No	30	72	421
UVG 0200 00VTA125	200	125	Yes	30	72	421
UVG 0250 00VTA125	250	125	Yes	30	84	505
UVG 0350 00VT	350	125	No	36	87-1/2	695
UVG 0350 00VTA125	350	125	Yes	36	87-1/2	695
UVG 0400 00VTA125	400	125	Yes	36	97-1/8	775
UVG 0500 00VTA125	500	125	Yes	42	88	865
UVG 0500 00VSA125	500	125	Yes	48	73	951
UVG 0750 00VTA125	750	125	Yes	48	105 -7/8	1290
UVG 1000 00VTA125	1000	125	Yes	48	137-3/4	1655

STORAGE TANKS

UGV Series – Custom Tanks

- 80 through 12,500 gallon capacities
- Glasslined steel tank standard – cement or epoxy linings available
- Thick foam insulation on jacketed models
- Anode rod protects against corrosion
- ASME tank construction standard
- 5-year warranty

Consult specification sheet or your State sales representative for complete details on Custom Storage Tank availability and options.

MODEL NUMBER	GALLON CAPACITY	DIMENSIONS IN INCHES	
		OVERALL LENGTH	DIAMETER
UGV20 00080 VA125	80	60	20
UGV20 00100 VA125	100	72	20
UGV24 00125 VA125	125	66	24
UGV24 00140 VA125	140	75	24
UGV24 00175 VA125	175	90	24
UGV30 00175 VA125	175	60	30
UGV30 00200 VA125	200	71	30
UGV30 00250 VA125	250	84	30
UGV30 00300 VA125	300	99	30
UGV36 00250 VA125	250	60	36
UGV36 00300 VA125	300	71	36
UGV36 00350 VA125	350	86	36
UGV36 00400 VA125	400	93	36
UGV36 00500 VA125	500	122	36
UGV36 00550 VA125	550	125	36
UGV42 00375 VA125	375	67	42
UGV42 00450 VA125	450	79	42
UGV42 00500 VA125	500	88	42
UGV42 00600 VA125	600	103	42
UGV42 00700 VA125	700	119	42
UGV42 00800 VA125	800	134	42
UGV42 00900 VA125	900	150	42
UGV42 01000 VA125	1000	166	42
UGV48 00500 VA125	500	73	48
UGV48 00600 VA125	600	81	48
UGV48 00700 VA125	700	93	48
UGV48 00750 VA125	750	105	48
UGV48 00900 VA125	900	117	48
UGV48 01000 VA125	1000	137	48
UGV48 01250 VA125	1250	159	48
UGV48 01500 VA125	1500	190	48

Continued on next page

STORAGE TANKS*UGV Series – Custom Tanks**Continued from previous page*

MODEL NUMBER	GALLON CAPACITY	DIMENSIONS IN INCHES	
		OVERALL LENGTH	DIAMETER
UGV48 01800 VA125	1800	220	48
UGV48 02000 VA125	2000	250	48
UGV54 00650 VA125	650	71	54
UGV54 00750 VA125	750	81	54
UGV54 00900 VA125	900	95	54
UGV54 01000 VA125	1000	105	54
UGV54 01250 VA125	1250	129	54
UGV54 01500 VA125	1500	153	54
UGV54 01800 VA125	1800	181	54
UGV54 02000 VA125	2000	200	54
UGV54 02250 VA125	2250	224	54
UGV60 00800 VA125	800	72	60
UGV60 01000 VA125	1000	88	60
UGV60 01250 VA125	1250	107	60
UGV60 01500 VA125	1500	126	60
UGV60 01750 VA125	1750	146	60
UGV60 02000 VA125	2000	165	60
UGV60 02250 VA125	2250	185	60
UGV60 02500 VA125	2500	204	60
UGV60 03000 VA125	3000	243	60
UGV66 01000 VA125	1000	75	66
UGV66 01500 VA125	1500	107	66
UGV66 02000 VA125	2000	139	66
UGV66 02500 VA125	2500	171	66
UGV66 03000 VA125	3000	203	66
UGV66 03500 VA125	3500	235	66
UGV72 02500 VA125	2500	147	72
UGV72 03000 VA125	3000	174	72
UGV72 03500 VA125	3500	201	72
UGV72 04000 VA125	4000	228	72
UGV72 04500 VA125	4500	254	72
UGV72 05000 VA125	5000	281	72
UGV84 04000 VA125	4000	173	84
UGV84 05000 VA125	5000	212	84
UGV84 06000 VA125	6000	252	84
UGV84 08000 VA125	8000	330	84
UGV96 07500 VA125	7500	244	84
UGV96 01000 VA125	10,000	319	96
UGV96 12500 VA125	12,500	395	96

Commercial Space Heating Expansion Tanks

- For use with commercial space heating boilers in closed systems
– not for use with potable water heating systems
- Free-standing design
- Field-adjustable 12 psi air charge
- Drawn-steel tank with butyl diaphragm separates air and water
- Maximum temperature 240° F
- 1/2" NPT connections
- 100 psi maximum working pressure
- 1-year tank warranty

	MODEL NUMBER	GALLON CAPACITY	MAX. ACCEPTABLE VOLUME (GALLONS) 20 PSIG	DIMENSIONS IN INCHES		SHIPPING WEIGHT (LBS.)
				A	B	
Free-Standing	ET-15	14.6	10.5	15-3/8	24-3/4	25
	ET-20	20	13.5	15-3/8	32-3/4	32
	ET-36	36	21	20	32-5/8	45
	ET-52	52	33.8	23-3/8	32-5/8	80
	ET-86	86	61.2	23-3/8	59	99



State Water Heaters

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www.statewaterheaters.com

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