

RESIDENTIAL WATER HEATERS

PUMP & EXPANSION TANKS



RESIDENTIAL PRODUCTS

CATALOG

RESIDENTIAL WATER HEATERS SELECTION GUIDE

To select the right State water heater for your home, you need to consider the size of your family and other factors that contribute to your Peak Demand Output Requirement. The chart below provides general State residential water heaters recommendations for several Family Sizes.

| FAMILY SIZE | PEAK DEMAND OUTPUT REQUIREMENT |
|-------------|--------------------------------|
| 2 People | 45 – 55 Gallons |
| 3 People | 55 – 65 Gallons |
| 4 People | 65 – 75 Gallons |
| 5 People | 75 – 85 Gallons |
| 6 People | 85 – 100 Gallons |
| 7 People | 100 or More Gallons |

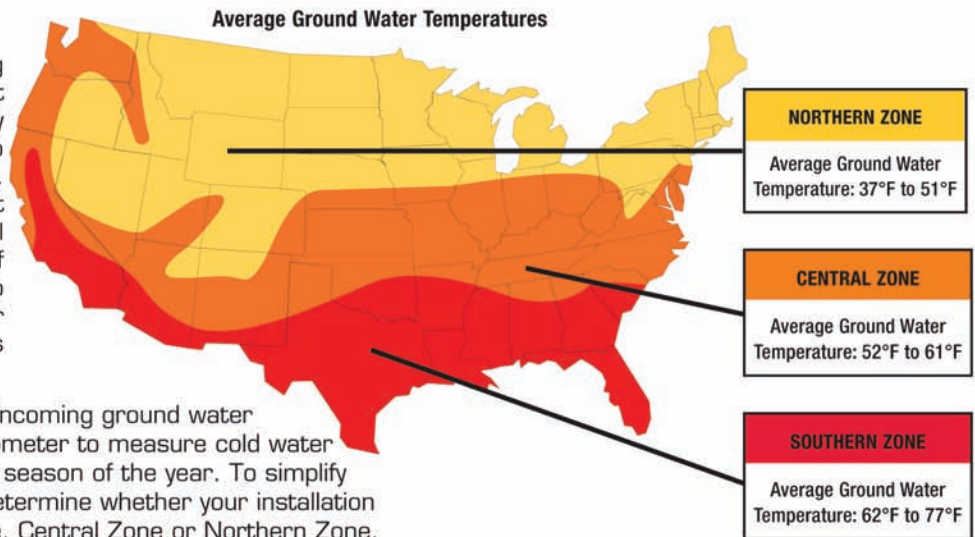
To Choose the Right Water Heater for You...

- Determine whether your family is Low Demand or High Demand. You should consider your family to be High Demand if...
 - There are more than two full baths in the home.
 - There are (or will be) teenagers living in the home. It's a fact: teenagers use more hot water for showering and washing clothes.
 - If you have an oversize whirlpool bath or other large tub. As a rule of thumb, the water heater tank capacity should be 100% or more of the bathtub capacity (example: 75-gallon tub/80-gallon water heater).
- Find your Family Size and Peak Demand Output Requirement in the chart above.
- Consult the charts on the preceding pages for a State residential electric water heater with a Peak Demand Output that meets your requirement.
- If your family is High Demand, you should step up to the next Peak Demand Output level.

Ground water temperature factor.

The temperature of incoming ground water (cold water inlet temperature) varies greatly throughout the U.S. and also fluctuates with change of season. The temperature of water as it enters the water heater will determine the amount of "temperature rise" required to achieve the desired hot water outlet temperature (120°F is recommended).

The best way to measure your incoming ground water temperature is to use a thermometer to measure cold water temperature during the coldest season of the year. To simplify the process, use this map to determine whether your installation location is in the Southern Zone, Central Zone or Northern Zone.



Peak hot water demand.

The next step is to determine how much hot water will be required during the busiest usage period ("peak demand"). To use the chart, consider all appliances and fixtures that use hot water including lavatory faucets, kitchen faucets, washing machines, dishwashers, showers and bathtubs. Be sure to determine how many appliances and fixtures will be used at the same time ("peak demand").

| Appliances or fixtures in simultaneous use during peak demand | Ground Water Temperature Zone | | |
|---|-------------------------------|----------------|---------------|
| | Southern Zone | Central Zone | Northern Zone |
| 1 | 305 or 505 | 305 or 505 | 305 or 505 |
| 2 | 305 or 505 | 305 or 505 | 305 or 505 |
| 3 | 505 or 705 | (2) 505 or 705 | (2) 505 |
| 4 | (2) 505 | (2) 505 | (2) 505 |
| 5 | (2) 505 | (2) 705 | (2) 705 |
| 6 or more | Multi-system | Multi-system | Multi-system |

*Note: This selection guide is based on 120°F outlet water temperature.

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Solid.State.

About State Water Heaters

State Water Heaters, a brand of State Industries, Inc., is a leading manufacturer of commercial and residential water heaters. State offers 500 water heater products, and has consistently developed new technologies to ensure longer product life. Based in Ashland City, Tennessee, State has seven water heater manufacturing plants. Hundreds of distribution centers across the United States ensure efficient service to State's national customer base of residential homeowners, wholesalers, contractors, and other members of the engineering community. All State products are backed by solid customer technical support and durable tank and parts warranty.

HISTORY

In 1946, State Water Heaters was founded by Herbert Lindahl, Sr. as a small entrepreneurial company producing coal and wood-burning stoves in a garage in Nashville, Tennessee. In the years that followed, State expanded and became a leader in the water heating industry, through steadfast commitments to seeking new materials, new technology and innovative engineering techniques.

Landmark moments in State's proud history include:

- | | |
|-------------|--|
| 1948 | State produces its first electric water heater. |
| 1954 | State expands product lines and manufactures first gas-fired water heaters. |
| 1956 | State manufactures its first welded-steel galvanized tanks. |
| 1957 | State produces its first porcelain glass-lined tanks; the basic design feature is still in use today. |
| 1979 | State is granted US patents for their Sandblaster® commercial water heater design, which reduces sediment and scale in the tank. State is also first to use foam insulation to line the space between the tank and the jacket of the water heater. |
| 1996 | State is the world's largest water heater manufacturer with over 2,900 employees and average daily production of over 10,000 units. The company introduces a complete new product line that includes the Premier® and Select® models. |

State offers more ways to bring hot water home.

Gas or electric, large or small, there is a State Water Heater that's right for any size family. For over 6 decades, the State brand has stood for quality and value, and for providing all the choices you need...

- *High efficiency for long-term value and energy cost savings*
- *High hot water output for large families*
- *Special models for special needs*

High Efficiency for Long-Term Value

State Premier® gas or electric water heaters offer the highest possible energy factors and deliver the lowest possible operating costs over the life of the appliance. Premier gas models also feature the Self-Cleaning State Turbo Coil dip tube, which helps the water heater stay energy-efficient by reducing harmful sediment accumulation. Select® High Efficiency gas models feature 2"-thick foam insulation and qualify for most utility rebates.

High Output for Big Families

During peak demand periods when your family uses the most hot water, Premier and Select High Output gas models supply the maximum hot water.... If you have a large family, multiple bathrooms or a large whirlpool tub, chances are you need a high output water heater.

Special Models for Special Needs

For a variety of applications, State offers three different specialty-vent gas designs... direct-vent, power-vent and power direct-vent. Point-of-use electric models meet the need when only a small volume of hot water is required.



CODES AND STANDARDS

Code Compliance: Meets or Exceeds the Federal Energy Efficiency Standards Effective January 20, 2004, according to the National Appliance Energy Conservation Act (NAECA) of 1992. Also meets or exceeds the thermal efficiency and/or standby loss requirements of the U. S. Department of Energy and Current Edition of AHSRAE/IESNA 90.1, ICC Codes and HUD Standards.



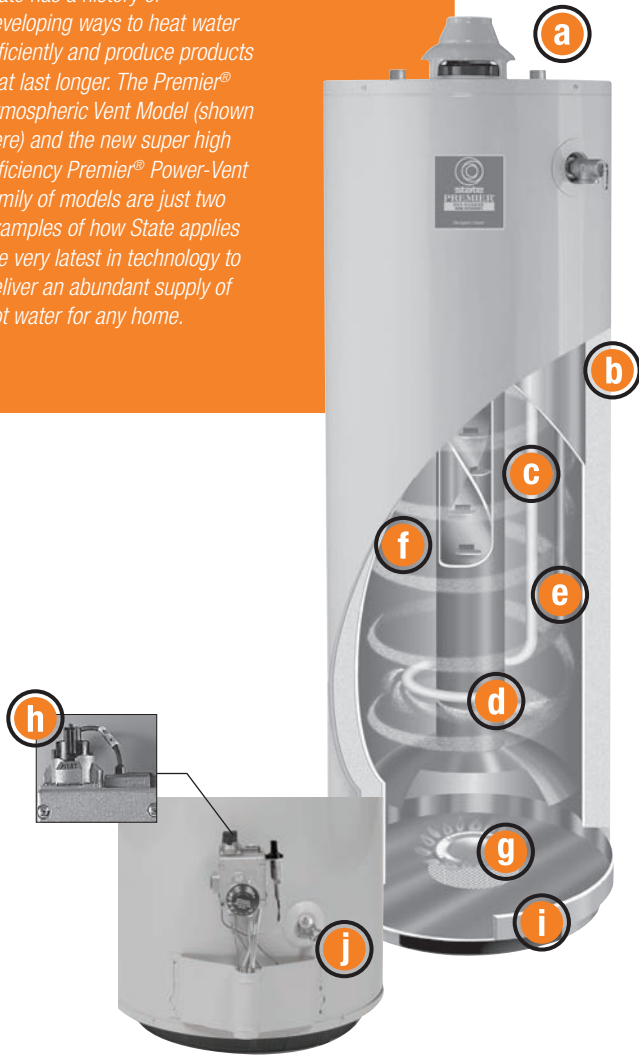
All State residential water heaters are design-certified by CSA International according to ANSI Z21.10.1 and 10.3 and CSA 4.1 and 4.3 Standards governing storage-type water heaters.



All State residential water heaters are UL listed according to safety specifications outlined in Underwriters Laboratories, Inc. Standards for Safety (UL 174).

State-of-the Art Residential Durability.

State has a history of developing ways to heat water efficiently and produce products that last longer. The Premier® Atmospheric Vent Model (shown here) and the new super high efficiency Premier® Power-Vent family of models are just two examples of how State applies the very latest in technology to deliver an abundant supply of hot water for any home.



PREMIER® ATMOSPHERIC VENT GAS WATER HEATER.

a. Energy-Saving Silencer™ Heat Traps

Keep energy from escaping during “standby” periods. Factory installed on most models.

b. Energy-Saving Thick Foam Insulation

Superior protection against radiant heat loss.

c. PEXAN™ Cross-Link Polymer Dip Tube

d. Self-Cleaning Turbo Coil™ Dip Tube

Prolongs tank life and maintains energy-efficiency. It directs incoming cold water to create turbulence that reduces sediment buildup in the tank.

e. Heavy-Duty Anode Rod

with steel core, protects glass-lined tank from rust and corrosion.

f. New Blue Diamond® Glass Coating

All State Residential models are equipped with the ultimate protection against rust and corrosion. Blue Diamond provides superior corrosion resistance compared to industry-standard glass lining.

g. Eco-Friendly Green Choice® Gas Burner

standard on all State gas water heaters, reduces NOx emissions by 33% compared to standard burners, complies with regional requirements.

h. Easy-to-Light Piezo Ignitor

for fast “one-hand” pilot ignition. Standard on all Atmospheric models.

i. FVIR Technology Gas Water Heater Design

meets ANSI Z21.10.1 - CSA 4.1 Standards dealing with the ignition of flammable vapors outside the water heater. Exclusive flame arrestor protects in the event of a flammable vapor incident

j. Durable, Tamper-Resistant Brass Drain Valve

CONSIDER AN EXPANSION TANK

The installation of an expansion tank with any new water heater is highly recommended and may be required by code in your area.

An expansion tank provides important protection against potential damage to your plumbing system caused by high water pressure and prevents “water hammer” noises in the pipes. For more information on State Expansion Tanks, ask your State Water Heaters Expert, or visit

www.statewaterheaters.com.

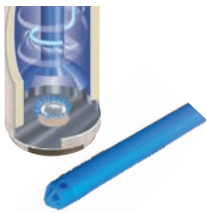


State *Builds Durability* Into all Residential Water Heaters



BLUE DIAMOND® GLASS COATING

State Residential gas and electric water heaters have the toughest protection against corrosion for long tank life. State's Blue Diamond® Glass coating provides superior corrosion resistance compared to the industry-standard glass lining.



AUTOMATIC SELF-CLEANING SYSTEMS ON STATE RESIDENTIAL MODELS

Automatic self-cleaning action greatly reduces sediment accumulation and maximizes hot water output for years of reliable service. All State models are equipped with PEX self-cleaning systems.

Our Premier® models come standard with maximum sediment-fighting power and utilize our top-of-the-line Turbo Coil™ design.



HEAT TRAP NIPPLES

Allow for easy unit installation & help manage standby heat loss. Now factory installed on most State Residential models.



STEEL CORE ADVANCED ANODE ROD PROTECTION... FROM STATE WATER HEATERS

The anode rod is a highly effective corrosion fighting system which utilizes cathodic action to protect internal tank surfaces from corrosive elements.

The State design adds a stainless steel core to magnesium or aluminum anodes for even longer life. Standard on residential models.



TAMPER-RESISTANT BRASS DRAIN VALVE

Durable brass drain valve with "screw-slot" head to help prevent valve opening by accident. Standard on most State residential gas and electric models.



GREEN CHOICE® LOW-NOX BURNER

Patented "eco-friendly" burner design reduces NOx emissions by up to 33%. Complies with Air Quality Management Districts with Low-NOx requirements.



ENERGY STAR®

State Water heaters offers a variety of models that are ENERGY STAR® qualified. Learn more at www.energystar.gov.

PREMIER® POWER-VENT DV

96% Thermal Efficiency, Continuous Hot Water †, 50-gallon /100,000 BTU Design, Power Direct Vent Design, Natural Gas & Propane, Advanced Electronic Control



- Fully submerged helical coil heat exchanger produces 96% thermal efficiency
- 100,000 BTU input results in 164 gallon first hour delivery, 129 GPH recovery
- Power direct vent capabilities up to 120 equivalent feet
- May be vented using 2", 3" or 4" PVC pipe
- Side-mounted recirculating taps for "combination" systems
- Top fired burner
- Advanced electrical control provides large LCD display, precise temperature control & advanced diagnostics
- Durable, tamper-resistant brass drain valve
- Dual heavy-duty anode rods
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help reduce time and sediment buildup
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty

| MODEL NUMBER | BTU INPUT PER HOUR | TANK SIZE GALLONS | 1 ST HOUR DELIVERY GALLONS | RECOVERY GALLONS PER HOUR AT 90° F RISE | DIMENSIONS IN INCHES | | APPROX. SHIPPING WEIGHT (LBS.) |
|--------------|--------------------|-------------------|---------------------------------------|---|----------------------|----------|--------------------------------|
| | | | | | HEIGHT | DIAMETER | |
| GP6 50 YTPDT | 100,000 | 50 | 164 | 129 | 68-1/2 | 22 | 255 |

Top inlet and outlet: 3/4" male NPT
 Side inlet and outlet: 3/4" female NPT
 Gas inlet: 1/2" NPT

Manifold Pressure: 4.0 inches w.c. (.99kPa); All models-Maximum Supply Pressure: 14 inches w.c. (3.48 kPa) Minimum Supply Pressure Natural Gas: 3.5 inches w.c. (.87 kPa). Minimum Pressure Propane: 8.0 inches w.c. (1.99 kPa). Minimum Pressure must be maintained under both load and no-load (static and dynamic) conditions.

† 4.3 GPM continuous flow, based on 65° F inlet water temperature and 110° F outlet water temperature.



What is hot water output?

For tank type water heaters, it is the amount of hot water a homeowner will get.

Peak Demand Output (or First Hour Rating) reveals how much hot water will be delivered in the first "peak demand" hour of concentrated use. For example, during the evening when dishes or clothes are being washed and family members are showering or bathing.

Recovery is the amount of water that can be heated in one hour to provide an additional supply during or after the peak demand period.

For tankless or on-demand water heaters, it is the maximum flow rate of the unit, the flow rate is measured in gallons per minute or gpm.

KEEP in mind, whatever type of water heater you choose it is important that it be sized to handle your maximum hot water needs.

PREMIER® POWER-VENT

90% Thermal Efficiency, Continuous Hot Water †, 50-Gallon / 76,000 BTU, Power-Vent Design



- Fully submerged helical coil heat exchanger produces 90% thermal efficiency
- 76,000 BTU input results in 127 gallon first hour delivery, 92 GPH recovery
- Power-vent capabilities up to 128 equivalent feet
- May be vented using 2," 3" or 4" PVC pipe
- 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
- Durable, tamper-resistant brass drain valve
- Dual heavy-duty 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
- 6-year tank and parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | GAL. CAP. | BTU INPUT PER HOUR | RECOVERY 90° F RISE GALLONS | DIMENSIONS IN INCHES | | APPROX. SHIPPING WEIGHT (LBS.) |
|--------------|-------------------------------------|-----------|--------------------|-----------------------------|----------------------|----------|--------------------------------|
| | | | | | HEIGHT* | DIAMETER | |
| GP6 50 YTVIT | 127 | 50 | 76,000 | 92 | 70-5/8 | 52 | 210 |

Recoveries are rounded to nearest gallon
 Water Connections – 3/4" male
 *Height to top of blower outlet
 Available in natural gas only
 Maximum vent distances:
 Using 2" PVC pipe: 25 equivalent feet
 Using 3" PVC pipe: 65 equivalent feet
 Using 4" PVC pipe: 128 equivalent feet



† 3.05 GPM continuous flow, based on 65° F inlet water temperature and 110° F outlet water temperature. Available in natural gas only.

PREMIER®
Maximum Energy-Efficiency,
Self-Cleaning

*Location for optional top-mounted T&P Valve, if ordered from factory. To order, add "G" to model number (GPX 40 YXRT G).



Series 200/201

- With energy factors up to .63, this special high-efficiency design, features energy-saving Silencer™ heat traps (3/4" male connections) & 2"-thick foam insulation
- Self-cleaning Turbo Coil™ dip tube, made from PEXAN™ cross-linked polymer
- Blue Diamond® glass coating – provides superior corrosion resistance compared to industry-standard glass lining
- 40,000 BTU input on all models
- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- Heavy-duty magnesium anode rod
- FVIR gas water heater design
- Easy-to-light piezo ignitor
- Durable, tamper-resistant brass drain Valve
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 10-year tank and parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | BTU INPUT PER HOUR NATURAL † | RECOVERY 90° F RISE GALLONS | R VALUE | DIMENSIONS IN INCHES | | DRAFT HOOD OUTLET | APPROX. SHIPPING WEIGHT (LBS.) |
|--------------|-------------------------------------|---------------|-----------|------------------------------|-----------------------------|---------|----------------------|----------|-------------------|--------------------------------|
| | | | | | | | HEIGHT | DIAMETER | | |

TALL MODELS

| | | | | | | | | | | |
|-------------|----|-----|----|--------|----|----|--------|----|--------|-----|
| GPX 40 YXRT | 70 | .63 | 40 | 40,000 | 41 | 16 | 61-3/4 | 20 | 3 or 4 | 150 |
| GPX 50 YXRT | 88 | .62 | 50 | 40,000 | 41 | 16 | 61 | 22 | 3 or 4 | 165 |

Recoveries are rounded to nearest gallon

Water Connections – 3/4" on all models

† Propane Gas – 36,000 BTU input

When ordering Propane, change "Y" to "H" in model number (GPX 40 HXRT)

When ordering top-mounted T&P Valve, add "G" to model number (GPX 40 YXRT G)

200/201 Series Models

Models are ENERGY STAR® Qualified



What is the energy factor?

The Energy Factor (EF) is the best measurement of a water heater's overall energy efficiency. A higher EF means a more efficient water heater and energy cost savings for the homeowner.

SELECT® HIGH OUTPUT

*Location for optional top-mounted T&P Valve, if ordered from factory. To order, add "G" to model number (GS6 40 YRRT G).



Series 100/101

- Ideal for large families and high-demand homes – high inputs produce recoveries up to 81 GPH, deliverable hot water up to 150 gallons
- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- Aluminum anode rod
- FVIR gas water heater design
- Easy-to-light piezo ignitor on FVIR models
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help reduce lime and sediment buildup
- Durable, tamper-resistant brass drain valve
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty

| MODEL NUMBER | 1 ST HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | BTU INPUT PER HOUR NATURAL † | RECOVERY 90° F RISE GALLONS | R VALUE | DIMENSIONS IN INCHES | | DRAFT HOOD OUTLET | APPROX. SHIPPING WEIGHT (LBS.) |
|---------------|-------------------------------------|---------------|-----------|------------------------------|-----------------------------|---------|----------------------|----------|-------------------|--------------------------------|
| | | | | | | | HEIGHT | DIAMETER | | |
| GS6 40 YRRT | 88 | .60 | 38 | 50,000 | 48 | 16 | 58-1/2 | 20-1/2 | 4 | 138 |
| GS6 50 YRRT | 90 | .58 | 48 | 50,000 | 51 | 8 | 60-7/8 | 20 | 4 | 172 |
| GS6 50 YRRT 5 | 93 | .58 | 50 | 65,000 | 67 | 16 | 63-7/8 | 22 | 4 | 195 |
| GS6 65 YRRT | 116 | .57 | 65 | 65,000 | 67 | 16 | 65 | 24 | 4 | 215 |
| GS6 75 XRRS* | N/A | N/A | 74 | 75,100 | 81 | 16 | 61 | 26-1/2 | 4 | 275 |
| GS6 100 XRRT* | N/A | N/A | 98 | 75,100 | 81 | 10 | 68-1/2 | 27-3/4 | 4 | 350 |

Recoveries are rounded to nearest gallon
 Water Connections—1" on 75-gallon; 1-1/4" on 100-gallon models; 3/4" on all other models
 *Not equipped with FVIR Technology
 For 10-year tank and 6-year parts warranty, change "6" to "X" in model number (GSX 40 YRRT)
 When ordering top-mounted T&P Valve (FVIR models only), add "G" to model number (GS6 40 YRRT G)
 All models supplied with heat trap nipples, except the GS6 75 XRRS and GS6 100 XRRT
 FVIR models are approved for installations from sea level to 7700 feet elevation
 100/101 Series Models

† Propane Gas – GS6 40 HRRT: 47,000 BTU INPUT
 GS6 50 HRRT: 45,000 BTU INPUT
 GS6 50 HRRT5: 55,000 BTU INPUT
 GS6 65 HRRT: 62,500 BTU INPUT



SELECT® HIGH EFFICIENCY

*Location for optional top-mounted T&P Valve, if ordered from factory. To order, add "G" to model number (GS6 40 YOCT G).




- Minimum .62 energy factor – meets efficiency requirements for most gas utility rebate programs and other program requirements
- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- Aluminum anode rod
- FVIR gas water heater design
- Easy-to-light piezo ignitor on FVIR models
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help reduce lime and sediment buildup
- Durable, tamper-resistant brass drain valve
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | BTU INPUT PER HOUR NATURAL/PROPANE | RECOVERY 90° F RISE GALLONS | R VALUE | DIMENSIONS IN INCHES | | DRAFT HOOD OUTLET | APPROX SHIPPING WEIGHT (LBS.) |
|---------------|-------------------------------------|---------------|-----------|------------------------------------|-----------------------------|---------|----------------------|----------|-------------------|-------------------------------|
| | | | | | | | HEIGHT | DIAMETER | | |
| GS6 30 YOCT* | 66 | .63 | 30 | 40,000/37,000 | 41 | 16 | 62-3/8 | 18 | 3 or 4 | 126 |
| GS6 30 YOCT** | 67 | .62 | 30 | 35,500/32,000 | 36 | 16 | 60-1/2 | 18 | 3 or 4 | 126 |
| GS6 40 YOCS** | 67 | .62 | 40 | 40,000/37,000 | 41 | 16 | 51-1/2 | 22 | 3 or 4 | 149 |
| GS6 40 YOCT** | 70 | .62 | 40 | 40,000/37,000 | 41 | 16 | 61-3/4 | 20 | 3 or 4 | 150 |
| GS6 50 YOCT** | 80 | .62 | 50 | 40,000/37,000 | 41 | 16 | 61 | 22 | 3 or 4 | 165 |

Recoveries are rounded to nearest gallon
 Water Connections – 3/4" on all models
 For 10-year tank and 6-year parts warranty, change "6" to "X" in model number (GSX 40 YOCT)
 When ordering Propane, change "Y" to "H" in model number (GS6 40 HOCT)
 When ordering top-mounted T&P Valve, add "G" to model number (GS6 40 YOCT G)
 All models are approved for installations from sea level to 7700 feet elevation
 * 100/101 Series Models
 ** 200/201 Series Models
 GS6 40 YOCT and GS6 50 YOCT models Are ENERGY STAR® Qualified



SELECT®

*Location for optional top-mounted T&P Valve, if ordered from factory. To order, add "G" to model number (GS6 40 YBRT )



Series 200/201

- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- Aluminum anode rod
- FVIR gas water heater design
- Easy-to-light piezo ignitor on FVIR models
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help reduce lime and sediment buildup
- Durable, tamper-resistant brass drain valve
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty


| MODEL NUMBER | 1 ST HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | BTU INPUT PER HOUR NATURAL/PROPANE | RECOVERY 90° F RISE GALLONS | R VALUE** | DIMENSIONS IN INCHES | | DRAFT HOOD OUTLET | APPROX SHIPPING WEIGHT (LBS.) |
|--------------|-------------------------------------|---------------|-----------|------------------------------------|-----------------------------|-----------|----------------------|----------|-------------------|-------------------------------|
| | | | | | | | HEIGHT | DIAMETER | | |

TALL MODELS

| | | | | | | | | | | |
|---------------|----|-----|----|---------------|----|---|--------|----|--------|-----|
| GS6 30 YBRT* | 66 | .62 | 28 | 40,000/37,000 | 41 | 8 | 59-5/8 | 16 | 3 or 4 | 112 |
| GS6 30 YORT** | 67 | .61 | 30 | 35,500/32,000 | 36 | 8 | 60-1/2 | 16 | 3 or 4 | 112 |
| GS6 40 YBRT** | 70 | .59 | 40 | 40,000/37,000 | 41 | 8 | 61-3/4 | 18 | 3 or 4 | 138 |
| GS6 50 YBRT** | 88 | .58 | 50 | 40,000/37,000 | 41 | 8 | 60-3/4 | 20 | 3 or 4 | 153 |

SHORT MODELS

| | | | | | | | | | | |
|---------------|----|-----|----|---------------|----|----|--------|--------|--------|-----|
| GS6 30 YBRS* | 66 | .61 | 30 | 40,000/37,000 | 40 | 8 | 48-1/8 | 18-1/2 | 3 or 4 | 122 |
| GS6 40 YBRS** | 67 | .59 | 40 | 40,000/37,000 | 41 | 8 | 51-1/2 | 20 | 3 or 4 | 135 |
| GS6 50 YBRS* | 80 | .58 | 50 | 40,000/37,000 | 41 | 16 | 53-1/4 | 24 | 3 or 4 | 168 |

Recoveries are rounded to nearest gallon
 Water Connections – 3/4" male on all models
 External heat trap nipples are supplied on all models
 All models are 1" foam, except GS6 50 YBRS (2-inch foam)
 For 10-year tank and 6-year parts warranty, change "6" to "X" in model number (GSX 40 YBRT)
 When ordering Propane, change "Y" to "H" in model number (GS6 40 HBRT)
 When ordering top-mounted T&P Valve, add "G" to model number (GS6 40 YBRT )
 * 100/101 Series Models
 ** 200/201 Series Models



SELECT® POWER DIRECT-VENT



- Two-pipe “closed combustion” system permits combined horizontal and vertical venting and air intake runs up to 45 feet with one elbow, using 3” Schedule 40 PVC, CPVC or ABS pipe
- Intelli-Vent™ power gas control valve, with extra-durable silicon nitride hot surface ignitor
- Quiet modular blower, with 110/120 volt electrical system (rating 3 amps or less), with 7-foot cord, standard 3-prong male connector
- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- FVIR design
- Durable, tamper-resistant brass drain valve
- Aluminum anode rod provides added protection against tank corrosion
- 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
- 6-year tank and parts warranty

| MODEL NUMBER | SERIES | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | BTU INPUT PER HOUR NATURAL † | RECOVERY 90° F RISE GALLONS | R VALUE* | DIMENSIONS IN INCHES | | DRAFT HOOD OUTLET | APPROX. SHIPPING WEIGHT (LBS.) |
|----------------|---------|-------------------------------------|---------------|-----------|------------------------------|-----------------------------|----------|----------------------|----------|-------------------|--------------------------------|
| | | | | | | | | HEIGHT | DIAMETER | | |
| GS6 40 YBPD | 200/201 | 70 | .60 | .40 | 40,000 | 41 | 16 | 57 | 21 | 3 | 224 |
| GS6 50 YBPD | 200/201 | 87 | .59 | 50 | 40,000 | 41 | 16 | 66 | 21 | 3 | 232 |
| GS6 50 YRPDT 5 | 200/201 | 105 | .58 | 50 | 65,000 | 64 | 16 | 69-1/2 | 21 | 3 | 232 |
| GS6 75 YRPDT | 100/101 | 130 | .58 | 75 | 70,000 | 72 | 16 | 71-1/2 | 26-1/4 | 3 | 300 |

Recoveries are rounded to nearest gallon
Water Connections – 3/4” on all models

When ordering Propane, change “Y” to “H” in model number (GS6 40 HBPDT)

† Propane Gas Inputs/Recoveries – GS6 40 HBPDT: 36,000 BTU/37 GPH
GS6 50 HBPDT: 38,000 BTU/39 GPH
GS6 50 HRPDT 5: 60,000 BTU/59 GPH
GS6 75 HRPDT: 65,000 BTU/67 GPH



* R Value shown is “Performance Rated”

Higher Efficiencies from State

State’s specialty-vent Water Heaters provide an alternative to conventional atmospheric vertical-vent water heaters which require the use of metal venting. They are a solution to potential venting problems in replacement applications and provide unique options for placement of gas water heaters in residential new construction. They can provide these benefits...

1. Installation flexibility and simplicity. The option of through-the-wall horizontal or vertical venting allows much greater flexibility for placement of the water heater in the home. For example, State Select Power-Vent and Power Direct-Vent models permit long vent runs and vent using inexpensive, commonly-available PVC, CPVC or ABS pipe.

2. Direct-vent design helps assure proper combustion. In some homes, inadequate ventilation deprives a gas water heater of sufficient air for proper operation. State Select Direct-Vent and Power Direct-Vent models utilize “two pipe” systems to vent and to draw air from outside the home, eliminating concerns about indoor ventilation.



Intelli-Vent™
electronic gas control valve

Now standard on Select Power-Vent, Select Power Direct-Vent and the Premier® Power-Vent 90% model this advanced electronic valve features built-in intelligence to help ensure proper operation, easy-to-understand diagnostics and a nearly indestructible silicon nitride hot surface igniter.

SELECT® POWER-VENT



- Permits combined horizontal and vertical vent runs up to 120 feet, using schedule 40 PVC, CPVC or ABS pipe
- Quiet modular blower, with 110/120 volt electrical system (rating 3 amps or less), with 6-foot cord, standard 3-prong male connector
- FVIR design
- Intelli-vent™ power gas control valve, with extra-durable silicon nitride hot surface ignitor
- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- Durable, tamper-resistant brass drain valve
- Aluminum anode rod provides added protection against tank corrosion
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help reduce time and sediment buildup
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | BTU INPUT PER HOUR NATURAL † | RECOVERY 90° F RISE GALLONS | R VALUE** | DIMENSIONS IN INCHES | | VENT OPTIONS | APPROX. SHIPPING WEIGHT (LBS.) |
|----------------|-------------------------------------|---------------|-----------|------------------------------|-----------------------------|-----------|----------------------|----------|--------------|--------------------------------|
| | | | | | | | HEIGHT | DIAMETER | | |
| GS6 40 YBVIT | 69 | .65 | 40 | 40,000 | 44 | 8 | 63 | 18-1/2 | 2, 3 or 4 | 157 |
| GS6 50 YBVIT | 83 | .65 | 50 | 40,000 | 44 | 8 | 65 | 20 | 2, 3 or 4 | 177 |
| GS6 40 YBVIT 2 | 70 | .67 | 40 | 40,000 | 44 | 16 | 63 | 20-1/2 | 2, 3 or 4 | 166 |
| GS6 50 YBVIT 2 | 83 | .67 | 50 | 40,000 | 44 | 16 | 65 | 22 | 2, 3 or 4 | 186 |
| GS6 40 YRVIT | 80 | .65 | 40 | 50,000 | 53 | 16 | 65 | 20-1/2 | 2, 3 or 4 | 166 |
| GS6 50 YRVIT | 83 | .65 | 50 | 50,000 | 53 | 16 | 65 | 22 | 2, 3 or 4 | 186 |
| GS6 50 YRVIT 5 | 114 | .65 | 50 | 62,500 | 66 | 16 | 65 | 22 | 3 or 4 | 186 |
| GS6 75 YRVIT* | N/A | N/A | 74 | 80,000 | 86 | 12 | 66 | 25-1/2 | 3 or 4 | 245 |

| MODEL NUMBER | BTU INPUT | MAXIMUM VENT DISTANCE (Total Equivalent Feet) | | |
|----------------|-----------|---|---------|---------|
| | | 2" Pipe | 3" Pipe | 4" Pipe |
| GS6 40 YBVIT | 40,000 | 40' | 120' | 160' |
| GS6 50 YBVIT | 40,000 | 40' | 120' | 160' |
| GS6 40 YBVIT 2 | 40,000 | 40' | 120' | 160' |
| GS6 50 YBVIT 2 | 40,000 | 40' | 120' | 160' |
| GS6 40 YRVIT | 50,000 | 40' | 120' | 160' |
| GS6 50 YRVIT | 50,000 | 40' | 120' | 160' |
| GS6 50 YRVIT 5 | 62,500 | N/A | 80' | 120' |
| GS6 75 YRVIT* | 80,000 | N/A | 30' | 100' |

*74-gallon model is not FVIR construction
 Propane inputs: GS6 40 HBVIT, GS6 50 HBVIT, GS6 40 HBVIT 2, GS6 50 HBVIT 2: 40,000 BTU, GS6 40 HRVIT, GS6 50 HRVIT: 50,000 BTU, GS6 50 HRVIT 5: 55,000 BTU, GS6 75 HRVIT: 80,000 BTU
 **R8=1", R12=1-1/2" and R16=2" foam capacity
 All Models (excluding the GS6 75 YRVIT) are ENERGY STAR® Qualified



40 and 50-gallon models are supplied with 2", 22-1/2" Termination Elbow, plus 2", 3" and 4" screens
 74-gallon model is supplied with 3", 90" Termination Elbow, plus 3" screen. 2" & 3" elbows are equal to 5' of vent pipe. 4" elbows are equal to 8' of vent pipe

SELECT® DIRECT-VENT



- One pipe dual-channel system permits horizontal venting and air intake on most models up to 80 inches from outside wall, with no electrical power required
- FVIR Design
- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- Heat trap nipples installed (3/4" male connections)
- Durable, tamper-resistant brass drain valve
- Anode rod provides added protection against tank corrosion
- 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
- 6-year tank and parts warranty

| MODEL NUMBER | FIRST HOUR RATING | ENERGY FACTOR | GALLON CAP. | BTU INPUT | RECOVERY 90° RISE | DIMENSIONS IN INCHES | | VENT PIPE** | SHIPPING WEIGHT |
|--------------|-------------------|---------------|-------------|-----------|-------------------|----------------------|----------|-------------|-----------------|
| | | | | | | HEIGHT*** | DIAMETER | | |
| GS6 40 YRDS | 73 | .62 | 40 | 38,000 | 41 | 68 | 22-1/4 | Co-Axial | 167 |
| GS6 50 YRDS | 87 | .60 | 50 | 42,000 | 45 | 76 | 22-1/4 | Co-Axial | 185 |
| GS6 50 YRDS | 88 | .59 | 50 | 50,000 | 55 | 76 | 22-1/4 | Co-Axial | 187 |
| GS6 75 YRDS | 131 | .59 | 75 | 55,000 | 60 | 76 | 26-1/4 | Co-Axial | 310 |

Recoveries are rounded to nearest gallon

Water Connections – 3/4" on all models

**Dual-channel system has 3" vent pipe inside 6" air intake pipe for the 40 & 50-gallon.

The 75-gallon models uses a 4"x7" Co-axial pipe

*** A dimension is to center line of flue (recommended vent height)

When ordering Propane, change "Y" to "H" in model number (GS6 40 HBDS)

All models have 2" foam cavity

75-gallon water connections are 12" on center

GS6 40 YRDS Models are ENERGY STAR® Qualified



SELECT® MANUFACTURED HOUSING



- Specially designed for Manufactured Housing installation
- Available in standard vertical-vent or direct-vent models for through-the-roof venting
- All models equipped with gas control that is convertible for natural gas or propane gas operation
- Special Roof Jack Kits available for direct-vent models; consult specification sheet for kit availability
- Green Choice® gas burner – 33% lower NOx emissions than standard burners
- Aluminum anode rod
- Long-lasting PEXAN™ cross-linked polymer dip tube
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank warranty, 2-year parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | BTU INPUT PER HOUR NATURAL/PROPANE | RECOVERY 90° F RISE (GPH) | DIMENSIONS IN INCHES | | | APPROX. SHIPPING WEIGHT (LBS.) |
|-----------------------------|-------------------------------------|---------------|-----------|------------------------------------|---------------------------|----------------------|----------|-------------------|--------------------------------|
| | | | | | | HEIGHT* | DIAMETER | DRAFT HOOD OUTLET | |
| STANDARD-VENT MODELS | | | | | | | | | |
| GS6 30 YOMT | 69 | .61 | 30 | 35,000/32,000 | 36 | 61-3/4 | 16 | 3 or 4 | 115 |
| GS6 40 YOMT | 66 | .59 | 40 | 35,500/35,500 | 37 | 59-1/4 | 18-1/2 | 3 or 4 | 134 |
| GS6 50 YOMT | 88 | .58 | 50 | 40,000/37,000 | 41 | 61-1/2 | 20 | 3 or 4 | 168 |
| DIRECT-VENT MODELS | | | | | | | | | |
| PR6 30 NHDST2 | 54 | .61 | 30 | 30,000 | 31 | 56 | 18 | – | 115 |
| PR6 40 NHDST2 | 64 | .59 | 40 | 32,000 | 33 | 56-1/2 | 20 | – | 134 |
| PR6 50 NHDST2 | 77 | .58 | 50 | 38,000 | 39 | 56 | 22 | – | 170 |

*Height shown is to top of draft hood



ON-DEMAND/TANKLESS MODELS

- Modulating input adjusts with demand
- Energy-efficient copper heat exchanger
- Wall-mounted (brackets included)
- 3/4" Connections for Gas Inlet, Cold Water Inlet and Hot Water Outlet
- 12-year heat exchanger warranty/5 year parts warranty



| MODEL NUMBER | SERIES | BTU INPUT NATURAL/PROPANE | | E.F. RATING | HOT WATER OUTPUT (GPM) | | | DIMENSIONS IN INCHES †† | | | APPROX. SHIPPING WEIGHT (LBS.) |
|--------------|--------|---------------------------|---------|-------------|------------------------|------------|------------|-------------------------|-------|-------|--------------------------------|
| | | MINIMUM | MAXIMUM | | MAXIMUM | 45° F RISE | 70° F RISE | HEIGHT | WIDTH | DEPTH | |

INTERIOR MODELS

| | | | | | | | | | | | |
|----------------|---------|--------|-----------------|------|-----|---------|-----|----------|--------|-------|----|
| GTS – 305-NI | 200/201 | 15,000 | 180,000 | 0.82 | 7.5 | 6.6 | 4.3 | 22-15/16 | 14 | 9-5/8 | 50 |
| GTS – 505-NI | 200/201 | 15,000 | 199,000/190,000 | 0.82 | 9.4 | 7.4/7.1 | 4.7 | 22-15/16 | 14 | 9-5/8 | 50 |
| GTS – 705-NI | 100/101 | 19,000 | 237,000 | N/A | 9.8 | 8.8 | 5.7 | 23-5/8 | 18-1/2 | 9-1/8 | 55 |
| GTS – 705-NIA* | 100/101 | 19,000 | 237,000 | N/A | 9.8 | 8.8 | 5.7 | 23-5/8 | 18-1/2 | 9-1/8 | 55 |

EXTERIOR MODELS

| | | | | | | | | | | | |
|-----------------|---------|--------|---------|------|-----|-----|-----|----------|--------|---------|----|
| GTS – 305-NE | 200/201 | 15,000 | 180,000 | 0.82 | 7.5 | 6.6 | 4.3 | 19-13/16 | 14 | 7-3/4 | 46 |
| GTS – 505-NE | 200/201 | 15,000 | 199,000 | 0.82 | 9.4 | 7.4 | 4.7 | 22-15/16 | 14 | 9-13/16 | 46 |
| GTS – 705-NE | 100/101 | 19,000 | 237,000 | N/A | 9.8 | 8.7 | 5.7 | 23-5/8 | 18-1/2 | 9-5/16 | 55 |
| GTS – 705-NEA** | 100/101 | 19,000 | 237,000 | N/A | 9.8 | 8.7 | 5.7 | 23-5/8 | 18-1/2 | 9-5/16 | 55 |

For propane, change "N" to "P" in model number (GTS-305-PI or GTS-305-PE).
 There is no additional charge for propane.
 *705-NIA and 705-NEA models are ASME certified.
 305 (Series 200/201) and all 505 Models are ENERGY STAR® Qualified



SELECT® ULTRA-LOW NOx



- New Ultra-Low NOx Burner System**
 The all new burner system produces less NOx than previous burners. Enhanced Ultra-Low NOx burner complies with the Air Quality Management Districts of California for NOx emissions of less than 10ng/j.
- New Durable Burner Construction**
 Components of the new, improved burner system are made of either stainless steel or a strong inconel alloy that is designed to withstand extreme temperature applications. All burner components have been subject to rigorous life and reliability testing to maximize life.
- Built Using Proven FVIR Technology**
 Unit contains a flame arrestor that ensures vapors are safely combusted inside the sealed combustion chamber should a flammable vapor event occur.
- Anode rod provides added protection against tank corrosion**
- Long-lasting PEXANTM 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**
- 6-year tank and parts warranty**

| MODEL NUMBER | PEAK DEMAND OUTPUT (1 st Hour Rating Gallons) | ENERGY FACTOR | GALLON CAPACITY | BTU INPUT PER HOUR NATURAL | RECOVERY 90 F RISE GALLONS | R VALUE | DIMENSIONS IN INCHES | | | APPROX. SHIPPING WEIGHT (LBS.) |
|--------------|--|---------------|-----------------|----------------------------|----------------------------|---------|----------------------|----------|-------------------|--------------------------------|
| | | | | | | | HEIGHT | DIAMETER | DRAFT HOOD OUTLET | |

TALL MODELS

| | | | | | | | | | | |
|-------------|----|------|----|--------|----|----|--------|----|--------|-----|
| GS6 30 UORT | 50 | 0.61 | 30 | 30,000 | 31 | 8 | 59-7/8 | 16 | 3 or 4 | 105 |
| GS6 40 UBRT | 65 | 0.59 | 40 | 40,000 | 41 | 8 | 62-1/8 | 18 | 3 or 4 | 129 |
| GS6 50 UBRT | 75 | 0.58 | 50 | 40,000 | 41 | 8 | 60-7/8 | 20 | 3 or 4 | 151 |
| GS6 40 UOCT | 70 | 0.62 | 40 | 40,000 | 41 | 16 | 61-7/8 | 20 | 3 or 4 | 138 |
| GS6 50 UOCT | 75 | 0.60 | 50 | 40,000 | 41 | 16 | 60-7/8 | 22 | 3 or 4 | 160 |

Recoveries are rounded to nearest gallon
 Water Connections – 3/4" male on all models
 When ordering top-mounted T&P Valve, add "G" to model number (GS6 40 UBRT G)



PREMIER®
Maximum Energy-Efficiency
Self-Cleaning



- .95 energy factors, with 3" -thick foam insulation, energy-saving heat traps
- Self-cleaning Turbo Coil™ dip tube, made from long-lasting PEXAN™ cross-linked polymer
- Blue Diamond® glass coating – the ultimate protection against tank corrosion
- Sandhog® low-watt density 4500-watt incoloy steel heating elements – designed to last 2-3 times longer than standard copper elements
- Heavy-duty magnesium anode rod
- Durable, tamper-resistant brass drain valve
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 10-year tank and parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | ELEMENT WATTAGE 240 VAC | | RECOVERY 90° F RISE WITH STANDARD ELEMENT (GPH) | R VALUE | DIMENSIONS IN INCHES | | APPROX. SHIPPING WEIGHT (LBS.) |
|--------------|-------------------------------------|---------------|-----------|-------------------------|---------|---|---------|----------------------|----------|--------------------------------|
| | | | | STANDARD | MAXIMUM | | | HEIGHT | DIAMETER | |

TALL MODELS

| | | | | | | | | | | |
|-------------|----|-----|----|------|------|----|----|--------|--------|-----|
| EPX 40 DXRT | 56 | .95 | 40 | 4500 | 5500 | 21 | 24 | 60-1/2 | 20 | 125 |
| EPX 52 DXRT | 60 | .95 | 50 | 4500 | 5500 | 21 | 24 | 57 | 22-1/2 | 140 |
| EPX 66 DXRT | 72 | .95 | 66 | 4500 | 5500 | 21 | 24 | 62 | 24 | 185 |
| EPX 80 DXRT | 81 | .95 | 80 | 4500 | 5500 | 21 | 24 | 62 | 26 | 225 |

MEDIUM MODELS

| | | | | | | | | | | |
|-------------|----|-----|----|------|------|----|----|----|--------|-----|
| EPX 40 DXRS | 52 | .95 | 40 | 4500 | 5500 | 21 | 24 | 47 | 22-1/2 | 125 |
| EPX 50 DXRS | 62 | .95 | 50 | 4500 | 5500 | 21 | 24 | 50 | 24 | 155 |

Recoveries are rounded to nearest gallon
Water Connections – 3/4" male NPT on all models
Top-mount T&P Valve not available



What is low-watt density?

A low-watt density electric heating element has a much larger surface area transferring heat to water in the tank. This spreads out the distribution of wattage. So, for example, each square inch of a 4500-watt "low-watt" element surface gives off less electrical energy than its 4500-watt "high-watt" counterpart. The benefit? A low-watt density element operates more efficiently and lasts longer, because its surface simply does not have to work as hard.

SELECT® HIGH EFFICIENCY



- New higher energy factors of up to .93 meet efficiency requirements for most electric utility rebate programs and other program requirements
- 2-1/2"-thick foam insulation, energy-saving heat traps
- 4500-watt heating elements standard
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help protect against lime and sediment buildup
- Aluminum anode rod
- Durable, tamper-resistant brass drain valve
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | ELEMENT WATTAGE 240 VAC | | RECOVERY 90° F RISE WITH STANDARD ELEMENT (GPH) | R VALUE | DIMENSIONS IN INCHES | | APPROX. SHIPPING WEIGHT (LBS.) |
|----------------------|-------------------------------------|---------------|-----------|-------------------------|---------|---|---------|----------------------|----------|--------------------------------|
| | | | | STANDARD | MAXIMUM | | | HEIGHT | DIAMETER | |
| TALL MODELS | | | | | | | | | | |
| ES6 40 DOCT | 54 | .93 | 40 | 4500 | 6000 | 21 | 20 | 60 | 19 | 120 |
| ES6 52 DOCT* | 60 | .93 | 50 | 4500 | 6000 | 21 | 20 | 56-1/2 | 21-1/2 | 135 |
| ES6 66 DOCT | 76 | .92 | 66 | 4500 | 6000 | 21 | 20 | 61 | 23 | 180 |
| ES6 80 DOCT* | 87 | .93 | 80 | 4500 | 6000 | 21 | 20 | 61-1/2 | 25 | 210 |
| MEDIUM MODELS | | | | | | | | | | |
| ES6 50 DOCS | 62 | .93 | 50 | 4500 | 6000 | 21 | 20 | 49 | 23 | 155 |

Recoveries are rounded to nearest gallon
 Water Connections – 3/4" male NPT on all models
 For 10-year tank warranty, change "6" to "X" in model number (ESX 40 DOCT)
 *Models not available with top-mounted T&P Valve





SELECT®



- Tall, short and lowboy models available
- Thick foam insulation
- Aluminum anode rod
- Factory installed nipples
- 4500-watt heating elements standard
- Long-lasting PEXAN™ cross-linked polymer dip tube, with diffuser design to help reduce lime and sediment buildup
- Durable, tamper-resistant brass drain valve
- CSA Certified and ASME Rated T&P Relief Valve
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | ELEMENT WATTAGE 240 VAC | | RECOVERY 90° F RISE WITH STANDARD ELEMENT (GPH) | R VALUE | DIMENSIONS IN INCHES | | APPROX. SHIPPING WEIGHT (LBS.) |
|----------------------|-------------------------------------|---------------|-----------|-------------------------|---------|---|---------|----------------------|----------|--------------------------------|
| | | | | STANDARD | MAXIMUM | | | HEIGHT | DIAMETER | |
| TALL MODELS | | | | | | | | | | |
| ES6 30 DORT | 43 | .93 | 30 | 4500 | 6000 | 21 | 16 | 46-1/2 | 18 | 95 |
| ES6 40 DORT | 52 | .92 | 40 | 4500 | 6000 | 21 | 16 | 59-1/2 | 18 | 115 |
| ES6 52 DORT | 60 | .91 | 50 | 4500 | 6000 | 21 | 16 | 54 | 20-1/2 | 125 |
| ES6 55 DORT | 67 | .90 | 55 | 4500 | 6000 | 21 | 16 | 60-1/4 | 20-1/2 | 135 |
| ES6 66 DORT | 72 | .88 | 66 | 4500 | 6000 | 21 | 16 | 60-1/4 | 22 | 170 |
| ES6 80 DORT | 81 | .86 | 80 | 4500 | 6000 | 21 | 16 | 60-1/2 | 24 | 200 |
| ES6 120 DORT* | 112 | .81 | 119 | 4500 | 6000 | 21 | 16 | 64-1/4 | 28 | 320 |
| SHORT MODELS | | | | | | | | | | |
| ES6 30 DORS | 43 | .93 | 30 | 4500 | 6000 | 21 | 16 | 36-1/2 | 20-1/2 | 100 |
| ES6 40 DORS | 52 | .92 | 40 | 4500 | 6000 | 21 | 16 | 44 | 20-1/2 | 115 |
| ES6 50 DORS | 60 | .90 | 50 | 4500 | 6000 | 21 | 16 | 48 | 22 | 150 |
| LOWBOY MODELS | | | | | | | | | | |
| ES6 30 DOLS | 41 | .93 | 30 | 4500 | 6000 | 21 | 16 | 30 | 22 | 105 |
| ES6 40 DOLNS †† | 48 | .92 | 38 | 4500 | 6000 | 21 | 12 | 31-1/4 | 23 | 125 |
| ES6 50 DOLS †† | 55 | .91 | 50 | 4500 | 6000 | 21 | 16 | 34 | 26-1/2 | 170 |

Recoveries are rounded to nearest gallon

Water Connections – 3/4" on all models

For 10-year tank warranty, change "6" to "X" in model number (ESX 40 DORT)

*This model is not available with top-mounted T&P Valve

†† Not available as 10-year model with top T&P



SELECT® TABLE TOP



- Convenient flat surface at 36" height provides extra "counter space"
- All plumbing and electrical connections through back of water heater
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty

| MODEL NUMBER | 1 st HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | ELEMENT WATTAGE 240 VAC | | RECOVERY 90° F RISE WITH STANDARD ELEMENT (GPH) | R VALUE | DIMENSIONS IN INCHES | | | APPROX. SHIPPING WEIGHT (LBS.) |
|---------------|-------------------------------------|---------------|-----------|-------------------------|---------------|---|---------|----------------------|-------|-------|--------------------------------|
| | | | | STANDARD | MAXIMUM (GPH) | | | HEIGHT | DEPTH | WIDTH | |
| P6 30 20T1 | 42 | .89 | 27 | 4500 | 6000 | 21 | 12 | 36 | 25 | 21 | 141 |
| P6 40 20T4 W* | 52 | .88 | 40 | 4500 | 6000 | 21 | 12 | 36 | 25 | 24 | 174 |

Recoveries are rounded to nearest gallon
 Water Connections – 3/4"
 *This model supplied with heat traps standard





SELECT® JUNIOR



- Ideal for under-counter or crawl space installation
- Flexible inlet & outlet connections for easier installation in tight spaces
- CSA Certified and ASME Rated T&P Relief Valve
- One heating element – two elements available on 30 & 40-gallon models
- Maximum hydrostatic working pressure: 150 psi
- 6-year tank and parts warranty

| MODEL NUMBER | PEAK DEMAND OUTPUT (1 st HOUR RATING GALLONS) | ENERGY FACTOR | GALLON CAPACITY | ELEMENT WATTAGE | | RECOVERY 90° F RISE | R VALUE | DIMENSIONS IN INCHES | | APPROX. SHIPPING WEIGHT (LBS.) |
|----------------|---|---------------|-----------------|-----------------|---------------|---------------------|---------|----------------------|----------|--------------------------------|
| | | | | STANDARD 120 V | MAXIMUM 240 V | | | HEIGHT | DIAMETER | |
| ES6 6 SOMS | N/A | N/A | 6 | 1650 | 3000 | 8 | 8 | 15-1/4 | 14-1/8 | 31 |
| ES6 10 SOMS | N/A | N/A | 10 | 1650 | 4500 | 8 | 8 | 18-1/4 | 16 | 45 |
| ES6 20 SOMS | N/A | N/A | 19 | 1650 | 4500 | 8 | 8 | 25 | 18 | 65 |
| ES6 20 SOMT | N/A | N/A | 19.9 | 1650 | 4500 | 8 | 8 | 31-3/4 | 16 | 62 |
| ES6 30 SOMS K | 37 | .93 | 29 | 1650 | 6000 | 8 | 16 | 30 | 22 | 111 |
| ES6 40 SOMNS K | 43 | .92 | 38 | 1650 | 6000 | 8 | 12 | 31-1/8 | 23 | 125 |



SELECT® POINT-OF-USE



- For low-demand point-of-use applications
- 110/120 volt cord set, with 3-prong plug standard
- CSA Certified and ASME Rated T&P Relief Valve
- Built-in hanging bracket
- Maximum hydrostatic working pressure: 150 psi
- 6-Year tank and parts warranty

| MODEL NUMBER | PEAK DEMAND OUTPUT (1 st HOUR RATING GALLONS) | ENERGY FACTOR | GALLON CAPACITY | ELEMENT WATTAGE | | RECOVERY 90° F RISE | R VALUE | DIMENSIONS IN INCHES | | | APPROX. SHIPPING WEIGHT (LBS.) |
|----------------|--|---------------|-----------------|-----------------|---------|---------------------|---------|----------------------|-------|--------|--------------------------------|
| | | | | STANDARD | MAXIMUM | | | HEIGHT | DEPTH | WIDTH | |
| ES6 2 SSUS K † | N/A | N/A | 2.5 | 1500 @ 120V | | 7 | 8 | 13-3/4 † | 11 | 13-3/4 | 18 |

Water Connections – 1/2" NPT on Point-of-Use Model

† Top mounted T&P adds approximately 3" additional to overall height

SELECT® SOLAR BOOSTER TANKS

Residential Electric Water Heaters



Direct solar water heating systems require a supplementary source of water heating power and hot water storage for periods when solar components cannot keep up with system demand. Energy-efficient Select® electric booster tanks, available in 80 or 119-gallon capacities, are specifically designed to meet the need for consistent water temperature and constant hot water supply, 24 hours a day!

Low-watt density copper heating element

- Ensures long element life and optimum efficiency by spreading wattage output over large surface area

Top or side recirculating connections

- For maximum installation flexibility, piping for outgoing water (to pump) and incoming water (from solar collector) can be connected through the top or side of the tank
- Shipped with side connections plugged

Diffuser dip tube

- Reduces lime and sediment buildup, maximizes hot water output
- Made from State PEXAN™, a cross-linked polymer that can withstand long-term exposure to temperatures up to 400° F

Glass-lined tank with two anode rods

- Primary and secondary aluminum anode rods provide maximum protection against corrosion

2" thick (R-16) foam insulation for high energy-efficiency

Durable brass tamper-resistant drain valve

CSA Certified and ASME Rated T&P Relief Valve

6-Year limited tank and parts warranty

- Consult written warranty or contact state water heaters for complete information

| MODEL NUMBER | GALLON CAPACITY | ELEMENT WATTAGE (240 VOLT) | RECOVERY 90° F RISE GALLONS PER HOUR | NUMBER OF ELEMENTS | R VALUE | DIMENSIONS IN INCHES | | APPROX. SHIPPING WEIGHT (POUNDS) |
|--------------|-----------------|----------------------------|--------------------------------------|--------------------|---------|----------------------|----------|----------------------------------|
| | | | | | | HEIGHT | DIAMETER | |
| SBV 82 10TS | 80 | 4500 | 21 | 1 | 16 | 63-1/4 | 24 | 204 |
| SBV 120 10TS | 119 | 4500 | 21 | 1 | 1 | 63-1/4 | 28 | 311 |

Recoveries capacity is based on actual performance tests

PUMP-MATE™
SPMD Series — Pre-Pressurized,
Diaphragm Tanks



- 2 through 119 gallon capacities in free-standing, in-line or horizontal designs
- Butyl diaphragm insures separation of air and water
- 2-coat epoxy lining bonded to tank shell, protects against rust
- Convenient, flexible air charge valve
- Rotating corrosion-resistant base on free-standing models assures stability
- Tanks are NSF standard 61 listed
- 5-year warranty

| | MODEL NUMBER | VOLUME (GALLONS) | DIMENSIONS IN INCHES | | WEIGHT (LBS.) |
|---------------------------|--------------|------------------|----------------------|----------|---------------|
| | | | OVERALL HEIGHT | DIAMETER | |
| SPMD Series Free Standing | SPMD-14 | 14 | 24-3/4 | 15-3/8 | 25 |
| | SPMD-20 | 20 | 32-3/4 | 15-3/8 | 30 |
| | SPMD-31 | 31 | 45-1/2 | 15-3/8 | 40 |
| | SPMD-36S | 36 | 32-5/8 | 20 | 45 |
| | SPMD-52 | 52 | 38-5/8 | 23-3/8 | 77 |
| | SPMD-86 | 86 | 59 | 23-3/8 | 105 |
| | SPMD-96 | 96 | 63-3/8 | 23-3/8 | 111 |
| | SPMD-119 | 119.5 | 61-1/4 | 26 | 160 |
| SPMDI Series In-Line | SPMDI-2 | 2.0 | 12-9/16 | 8-3/8 | 4-1/2 |
| | SPMDI-5 | 4.6 | 14-11/16 | 11-3/8 | 7-1/2 |
| | SPMDI-7 | 7.3 | 21-1/8 | 11-3/8 | 10-1/2 |
| SPMDH Series Horizontal | SPMDH-7 | 7.3 | 12-5/8 | 11-3/8 | 16 |
| | SPMDH-14 | 14.0 | 17-3/8 | 15-3/8 | 25-1/2 |
| | SPMDH-20 | 20.0 | 17-3/8 | 15-3/8 | 30 |

SPMD-14, SPMD-20, SPMD-365 connection 1" Female
 SPMD-52, SPMD-86, SPMD-96, SPMD-199 connection 1-1/4" Female
 SPMDI connection 3/4" Male. *SPMDI-14 1" male
 SPMDH-7 connection 3/4" Male. *SPMDH-14, SPMDH-20 connection 1" Male



NEPTUNE™ GALVANIZED

Horizontal or Vertical Tanks

Z Series – 1-Year Warranty, NSF Certified

Size 12 to 120 Gallons – Free Standing

| MODEL NUMBER | VOLUME (GALLONS) | DIMENSIONS IN INCHES | | WEIGHT (POUNDS) |
|--------------|------------------|----------------------|----------|-----------------|
| | | HEIGHT | DIAMETER | |
| Z-12 | 12 | 26-1/2 | 12 | 27 |
| Z-21 | 21 | 27 | 16 | 45 |
| Z-32 | 32 | 38-3/4 | 16 | 52 |
| ZT-42 | 42 | 51 | 16 | 71 |
| ZS-42 | 42 | 33-3/4 | 20 | 71 |
| Z-82 | 82 | 63 | 20 | 114 |
| Z-120 | 120 | 64-1/2 | 24 | 154 |

30-Gallon – Horizontal

| MODEL NUMBER | VOLUME (GALLONS) | DIMENSIONS IN INCHES | | WEIGHT (POUNDS) |
|--------------|------------------|----------------------|----------|-----------------|
| | | HEIGHT | DIAMETER | |
| ZH-32 | 30 | 16 | 34-1/2 | 65 |

Size 220 to 900 Gallons – Galvanized

| MODEL NUMBER | VOLUME (GALLONS) | DIMENSIONS IN INCHES | | WEIGHT (POUNDS) |
|--------------|------------------|----------------------|----------|-----------------|
| | | HEIGHT | DIAMETER | |
| Z-220 | 220 | 78 | 30 | 303 |
| Z-315 | 315 | 79-1/2 | 36 | 416 |
| Z-480 | 480 | 87 | 42 | 640 |

| MODEL NUMBER | VOLUME (GALLONS) | DIMENSIONS IN INCHES | | WEIGHT (POUNDS) |
|--------------|------------------|----------------------|----------|-----------------|
| | | HEIGHT | DIAMETER | |
| ZU-525 | 525 | 128 | 36 | 685 |
| ZU-900 | 900 | 159 | 42 | 1040 |

1" NPT Spud in head for alternate motor mount or retention tank connection
 All tapping 1-1/4" Water Connections
 3/4" pressure switch tapping on all models

GLASS-LINED

G Series – 3-Year Warranty

G Series Glasslined Pump Tanks

| MODEL NUMBER | VOLUME (GALLONS) | DIMENSIONS IN INCHES | | WEIGHT (POUNDS) |
|--------------|------------------|----------------------|----------|-----------------|
| | | HEIGHT | DIAMETER | |
| G-42-T | 42 | 49 | 16-1/2 | 77 |
| G-42-S | 42 | 35-7/8 | 20 | 79 |
| G-82 | 82 | 62-1/4 | 20 | 120 |
| G-120 | 120 | 63 | 24 | 160 |

1-1/4" NPT Spud in head for alternate motor mount or retention tank connection
 All tapping 1-1/4" Water Connections
 1/4" pressure switch tapping on all models



THERM-O-FLEX™

Potable Water, Expansion Tanks

- For use with residential and commercial water heaters to maximum of 160° F
 - Field-adjustable 38 psi air charge
 - NSF certified
 - 100 psi maximum working pressure
 - 5-year tank warranty
-
- For use with residential and commercial water heaters to maximum of 160° F
 - All models designed for in-line installation
 - Field-adjustable 38 psi air charge
 - IAPMO approved
 - Tanks are NSF Standard 61 listed
 - 150 psi maximum working pressure
 - 5-year tank warranty

| MODEL NUMBER | MAX. (PSIG) WORKING PRESSURE | TANK VOLUME (GALS) | MAX. ACCEPTED VOLUME (GAL) | | | CONN. NPT SIZE | OVERALL HEIGHT (IN.) | DIAMETER (IN.) | WEIGHT (LBS.) |
|---|------------------------------|--------------------|----------------------------|--------|--------|----------------|----------------------|----------------|---------------|
| | | | 20 PSI | 40 PSI | 60 PSI | | | | |
| ETC-2X Series (Portable Expansion Tanks) | | | | | | | | | |
| ETC-2X | 150 | 1.96 | – | 1.27 | 1.03 | 3/4 | 12-1/2" | 8-3/8" | 5 |
| ETC-5X | 150 | 4.55 | – | 3.05 | 2.19 | 3/4 | 14-3/4" | 11-3/8" | 8 |
| ETC-10X | 150 | 9.25 | – | 6.55 | 5.25 | 3/4 | 15-3/4" | 15-3/8" | 20 |
| ET-2 Series (Hydronic Expansion Tanks) | | | | | | | | | |
| ET-2 | 100 | 1.96 | 1.53 | – | – | 1/2 | 12-1/2" | 8-3/8" | 5 |
| ET-5 | 100 | 4.55 | 3.75 | – | – | 1/2 | 14-3/4" | 11-3/8" | 8 |
| ET-7 | 100 | 7.3 | 4.6 | – | – | 1/2 | 21-1/8" | 11-3/8" | 11 |
| ET-14 | 100 | 14.8 | 10.5 | – | – | 1/2 | 21-5/8" | 15-3/8" | 22 |

Residential Space Heating Expansion Tanks

- For use with residential space heating boilers in closed systems
– Not for use with potable water heating systems
- Designed for in-line installation
- Combination models shipped with air vent and separator
- Field-adjustable 12 psi air charge
- Drawn-steel tank with butyl diaphragm separates air and water
- Maximum temperature 240° F
- 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.) |
|--------------------|--------------|-----------------|--|----------------------|----------|---------------------------|
| | | | | HEIGHT | DIAMETER | |
| In-Line | ET-2 | 1.96 | 1.53 | 8-3/8 | 12-1/2 | 5 |
| | ET-5 | 4.55 | 3.75 | 11-3/8 | 14-1/2 | 8 |
| | ET-7 | 7.3 | 4.6 | 11-3/8 | 21-1/2 | 11 |
| | ET-14 | 14.6 | 10.5 | 15-3/8 | 15-1/4 | 22 |
| Combination Units* | ET-2V-1 | 1.96 | 1.53 | 8-3/8 | 20-1/2 | 10 |
| | ET-2V-2 | 1.96 | 1.53 | 8-3/8 | 20-1/2 | 10 |
| | ET-5V-1 | 4.55 | 3.75 | 11-3/8 | 22-3/4 | 12-1/2 |
| | ET-5V-2 | 4.55 | 3.75 | 11-3/8 | 22-3/4 | 12-1/2 |
| | ET-7V-1 | 7.3 | 4.6 | 11-3/8 | 29-1/8 | 21 |
| | ET-7V-2 | 7.3 | 4.6 | 11-3/8 | 29-1/8 | 21 |

*Combination Units with Air Vent and Air Separator

All Models: 100 PSIG Maximum Working Pressure

All in-Line and Free-Standing Models have 1/2" MPT connections;

Combination Units Connections Sizes: ET-2V-1, ET-5V-1, ET-7V-1 have 1" MPT connection;

ET-2V-2, ET-5V-2, ET-7V-2 have 1/4" MPT connection;

Inside Back Cover BLANK



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