



# COMMERCIAL GAS

## WATER HEATERS

### ULTRA FORCE™ FLEX

#### ADAPTIVE GAS TECHNOLOGY AND MAXIMUM FLEXIBILITY

The State Ultra Force Flex family of condensing water heaters are designed to deliver years of dependable service while providing optimal efficiency. The Flex enhancements represent the latest in water heating and gas combustion technology. Models are now available from 100,000 to 500,000 Btu/h and all deliver thermal efficiencies of 95% or greater. The time proven and unique helical coil heat exchanger makes Ultra Force the clear choice for demanding commercial applications.

Ultra Force is an industry leader in high efficiency commercial gas water heating. Since its initial launch, State has continued the tradition of innovative enhancements and new model offerings. The current Flex design is no exception, and offers commercial customers the very best in water heating performance and overall cost of ownership.

#### AIQ™ ADAPTIVE GAS TECHNOLOGY

- Single model adjusts fuel types without conversion
- Gas type selected via touch screen upon installation
- Smart combustion system includes gas valve with servo motor and electronic controller
- Improves combustion and light off
- Adjusts to fuel qualities or abnormalities

#### INTELLIGENT CONTROL SYSTEM WITH 7" COLOR TOUCH DISPLAY AND ICOMM CONNECTIVITY

- Exclusive State engineered color touch display system
- Provides detailed water heater status information
- Precise Temperature control adjustable from 90 to 180 degrees
- Built-in diagnostics and run history
- Capable of receiving over-the-air software updates
- Integrated iCOMM remote connectivity via the iCOMM app.
- Intelligent Demand Response (IDR) feature senses large water draws and automatically adjusts the differential setpoint. This feature increases the hot water available when it is needed most.

#### SUBMERGED COMBUSTION CHAMBER, WITH HELICAL HEAT EXCHANGER COIL

- Positioned in center of tank, surrounded by water to virtually eliminate radiant heat loss from chamber

- Direct spark ignition
- Spiral heat exchanger keeps hot burner gases swirling, uses centrifugal force to maximize efficiency of heat transfer to water in tank
- Spiral heat exchanger reduces lime scale from forming on water-side surfaces, which maintains energy efficiency over time

#### LEAK DETECTION AND WARNING

- Ships with leak detection module that allows installing contractor to install where needed
- Provides audible alarm and alert notification via iCOMM connectivity

#### POWERED ANODES STANDARD ON ALL MODELS

- Provides long-lasting tank protection in varying water conditions

#### PERMAGLAS® ULTRA COAT™ GLASS LINING

- Glass coating is applied using a liquid slush coating technique to ensure uniform coating
- Heat exchanger coil is glassed both externally and internally for optimum protection

#### HIGH EFFICIENCY MODULATING PREMIX POWERED BURNER

- Down-fired pre-mix burner provides optimum efficiency and quiet operation
- Top-mounted burner position prevents condensation from affecting burner operation



SUF60-100(A) THROUGH  
SUF119-500(A)  
MODEL SHOWN: SUF100-199(A)  
SERIES 410



# SOLID. STATE.



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## WATER HEATERS

### OTHER FEATURES:

#### SPACE-SAVING DESIGN FOR INSTALLATION FLEXIBILITY

- Easy-to-remove top cover for convenient access to serviceable parts
- 0" installation clearances on sides and rear 1-1/2" installation clearance on top
- Handhole cleanout allows easy access to tank interior for cleaning
- 0" clearance to combustibles, approved for installation on combustible floors

#### MECHANICAL VENTING VERSATILITY

- Conventional power venting or direct venting
- Vents vertically or through a sidewall
- Front located exhaust and condensate connections allow for easy install and access
- Vents with low cost PVC Schedule 40 intake and exhaust pipe. Approved for optional CPVC Schedule 40, Polypropylene and AL29-4C stainless steel vent materials
- Direct-vent intake and exhaust pipe can terminate separately outside building or through single opening, using concentric vent assembly
- Common vent options available

### NEW FLEXIBLE POLYPROPYLENE VENTING

- Vent through existing B-Vent with polypropylene flex
- Makes retrofit installations easier

### CODES AND STANDARDS

- CSA certified and ASME rated T&P relief valve
- Maximum hydrostatic working pressure: 160 psi
- All models are design certified by Underwriters Laboratories (UL), Inc., to ANSI Z21.10.3 - CSA 4.3 Standards
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition ASHRAE/IES 90.1
- Design Certified by Underwriters Laboratories to NSF standard 5 for 180°F (82°C) water
- Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for low-NOx emissions
- ASME tank construction optional on 100-500 model sizes

### 3-YEAR LIMITED TANK / 1-YEAR LIMITED PARTS WARRANTY

- For complete warranty information, consult written warranty or go to [statewaterheaters.com](http://statewaterheaters.com)

### VENT REQUIREMENTS FOR SUF 100 - 145

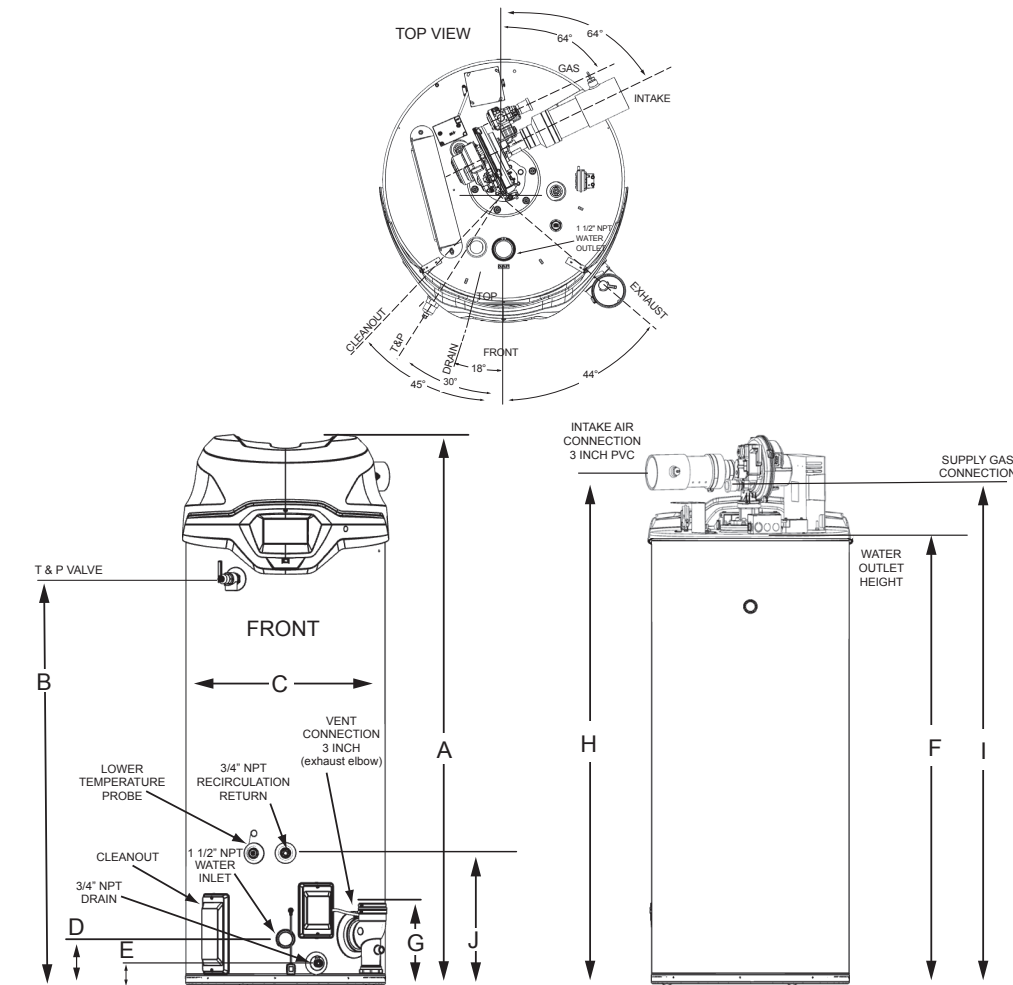
| PVC/CPVC Equivalent Length and Maximum Number of Elbows - 60 Gallon Models |                                          |             |             |                          |    |    |
|----------------------------------------------------------------------------|------------------------------------------|-------------|-------------|--------------------------|----|----|
| Model                                                                      | Maximum Equivalent Length, Feet (Meters) |             |             | Maximum Number of Elbows |    |    |
|                                                                            | 2" Pipe                                  | 3" Pipe     | 4" Pipe     | 2"                       | 3" | 4" |
| SUF60 100(A)                                                               | 75 (22.86)                               | 100 (30.48) | 150 (45.72) | 4                        | 4  | 6  |
| SUF60 120(A)                                                               | 75 (22.86)                               | 100 (30.48) | 150 (45.72) | 4                        | 4  | 6  |
| SUF60 145(A)                                                               | 75 (22.86)                               | 100 (30.48) | 150 (45.72) | 4                        | 4  | 6  |

### VENT REQUIREMENTS SUF 150 - 250

| PVC/CPVC Equivalent Length and Maximum Number of Elbows - 100 Gallon Models |                                          |             |             |                          |    |    |
|-----------------------------------------------------------------------------|------------------------------------------|-------------|-------------|--------------------------|----|----|
| Model                                                                       | Maximum Equivalent Length, Feet (Meters) |             |             | Maximum Number of Elbows |    |    |
|                                                                             | 2" Pipe                                  | 3" Pipe     | 4" Pipe     | 2"                       | 3" | 4" |
| SUF100 150(A)                                                               | 50 (15.2)                                | 150 (45.72) | 200 (60.96) | 4                        | 4  | 6  |
| SUF100 199(A)                                                               | 40 (12.2)                                | 150 (45.72) | 200 (60.96) | 4                        | 4  | 6  |
| SUF100 250(A)                                                               | 20 (6.10)                                | 150 (45.72) | 200 (60.96) | 2                        | 4  | 6  |

### VENT REQUIREMENTS SUF 251 - 500

| PVC/CPVC Equivalent Length and Maximum Number of Elbows - 119 Gallon Models |                                          |             |                          |         |
|-----------------------------------------------------------------------------|------------------------------------------|-------------|--------------------------|---------|
| Model                                                                       | Maximum Equivalent Length, Feet (Meters) |             | Maximum Number of Elbows |         |
|                                                                             | 4" Pipe                                  | 6" Pipe     | 4" Pipe                  | 6" Pipe |
| SUF119 251(A)                                                               | 100 (30.48)                              | 150 (45.72) | 6                        | 6       |
| SUF119 300(A)                                                               | 100 (30.48)                              | 150 (45.72) | 6                        | 6       |
| SUF119 400(A)                                                               | 100 (30.48)                              | 150 (45.72) | 6                        | 6       |
| SUF119 500(A)                                                               | 100 (30.48)                              | 150 (45.72) | 6                        | 6       |

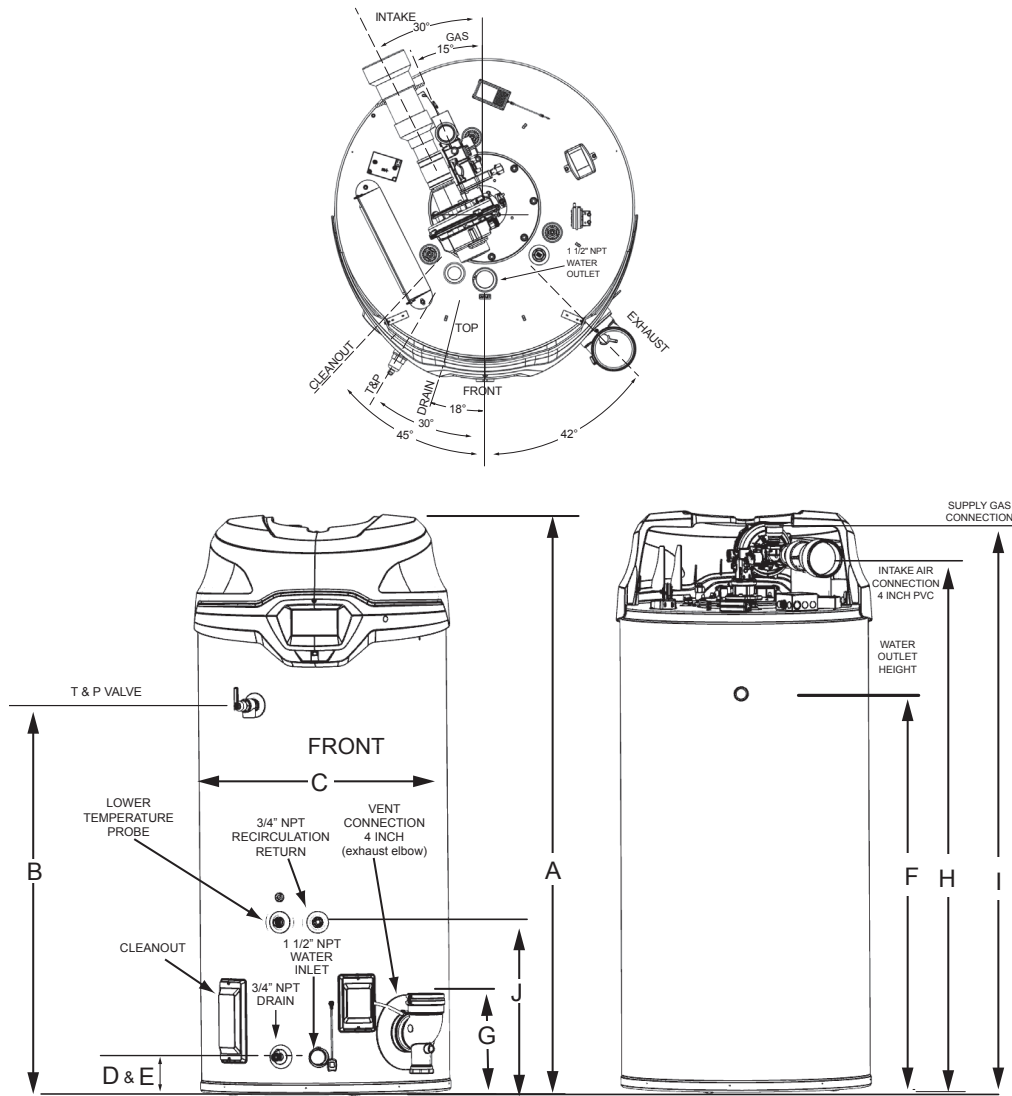


| Model Number  | Approx. Capacity |     | Dimensions |        |        |        |      |        |        |        |        |        | lb/kg | Approx. Shipping Weight Std | Approx. Shipping Weight ASME |
|---------------|------------------|-----|------------|--------|--------|--------|------|--------|--------|--------|--------|--------|-------|-----------------------------|------------------------------|
|               |                  |     | A          | B      | C      | D      | E    | F      | G      | H      | I      | J      |       |                             |                              |
| SUF60 100(A)  | Gallons          | 60  | 55 1/2     | 35     | 27 3/4 | 6 5/16 | 3    | 42 1/4 | 11 1/4 | 48 1/2 | 53 1/2 | 18 1/4 | lb    | 460                         | 490                          |
|               | Liters           | 227 | 141        | 88.9   | 70.5   | 16     | 7.62 | 107.32 | 28.6   | 123.2  | 135.9  | 46.36  | kg    | 208                         | 220                          |
| SUF60 120(A)  | Gallons          | 60  | 55 1/2     | 35     | 27 3/4 | 6 5/16 | 3    | 42 1/4 | 11 1/4 | 48 1/2 | 53 1/2 | 18 1/4 | lb    | 460                         | 490                          |
|               | Liters           | 227 | 141        | 88.9   | 70.5   | 16     | 7.62 | 107.32 | 28.6   | 123.2  | 135.9  | 46.36  | kg    | 208                         | 220                          |
| SUF60 145(A)  | Gallons          | 60  | 55 1/2     | 35     | 27 3/4 | 6 5/16 | 3    | 42 1/4 | 11 1/4 | 48 1/2 | 53 1/2 | 18 1/4 | lb    | 460                         | 490                          |
|               | Liters           | 227 | 141        | 88.9   | 70.5   | 16     | 7.62 | 107.32 | 28.6   | 123.2  | 135.9  | 46.36  | kg    | 208                         | 220                          |
| SUF100 150(A) | Gallons          | 100 | 76 1/2     | 56 3/8 | 27 3/4 | 6 5/16 | 3    | 64     | 11 1/4 | 70     | 75 1/2 | 18 1/4 | lb    | 523                         | 553                          |
|               | Liters           | 379 | 194.9      | 143.2  | 70.5   | 16     | 7.62 | 162.6  | 28.6   | 177.8  | 191.8  | 46.36  | kg    | 237                         | 251                          |
| SUF100 199(A) | Gallons          | 100 | 76 1/2     | 56 3/8 | 27 3/4 | 6 5/16 | 3    | 64     | 11 1/4 | 70     | 75 1/2 | 18 1/4 | lb    | 523                         | 553                          |
|               | Liters           | 379 | 194.9      | 143.2  | 70.5   | 16     | 7.62 | 162.6  | 28.6   | 177.8  | 191.8  | 46.36  | kg    | 237                         | 251                          |
| SUF100 250(A) | Gallons          | 100 | 76 1/2     | 56 3/8 | 27 3/4 | 6 5/16 | 3    | 64     | 11 1/4 | 70     | 75 1/2 | 18 1/4 | lb    | 523                         | 553                          |
|               | Liters           | 379 | 194.9      | 143.2  | 70.5   | 16     | 7.62 | 162.6  | 28.6   | 177.8  | 191.8  | 46.36  | kg    | 237                         | 251                          |

Electrical characteristics-120V-60Hz A.C., 5.0 A

"A" in model represents ASME construction

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



| Model Number  | Approx. Capacity |        | Dimensions |        |        |       |       |        |        |        |        |       | lb/kg | Approx. Shipping Weight Std | Approx. Shipping Weight ASME |
|---------------|------------------|--------|------------|--------|--------|-------|-------|--------|--------|--------|--------|-------|-------|-----------------------------|------------------------------|
|               |                  |        | A          | B      | C      | D     | E     | F      | G      | H      | I      | J     |       |                             |                              |
| SUF119 251(A) | Gallons          | 119    | 75 3/4     | 52     | 33 1/8 | 4 3/4 | 4 3/4 | 63 1/8 | 12 3/4 | 69 1/4 | 74 1/2 | 23    | lb    | 855                         | 855                          |
|               | Liters           | 450.96 | 192.41     | 132.08 | 84.12  | 12.07 | 12.07 | 160.35 | 32.39  | 175.9  | 189.23 | 58.43 | kg    | 387                         | 387                          |
| SUF119 300(A) | Gallons          | 119    | 75 3/4     | 52     | 33 1/8 | 4 3/4 | 4 3/4 | 63 1/8 | 12 3/4 | 69 1/4 | 74 1/2 | 23    | lb    | 855                         | 855                          |
|               | Liters           | 450.96 | 192.41     | 132.08 | 84.12  | 12.07 | 12.07 | 160.35 | 32.39  | 175.9  | 189.23 | 58.43 | kg    | 387                         | 387                          |
| SUF119 400(A) | Gallons          | 119    | 75 3/4     | 52     | 33 1/8 | 4 3/4 | 4 3/4 | 63 1/8 | 12 3/4 | 69 1/4 | 74 1/2 | 23    | lb    | 855                         | 855                          |
|               | Liters           | 450.96 | 192.41     | 132.08 | 84.12  | 12.07 | 12.07 | 160.35 | 32.39  | 175.9  | 189.23 | 58.43 | kg    | 387                         | 387                          |
| SUF119 500(A) | Gallons          | 119    | 75 3/4     | 52     | 33 1/8 | 4 3/4 | 4 3/4 | 63 1/8 | 12 3/4 | 69 1/4 | 74 1/2 | 23    | lb    | 855                         | 855                          |
|               | Liters           | 450.96 | 192.41     | 132.08 | 84.12  | 12.07 | 12.07 | 160.35 | 32.39  | 175.9  | 189.23 | 58.43 | kg    | 387                         | 387                          |

Electrical characteristics-120V-60Hz A.C., 5.0 A

"A" in model represents ASME construction

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## WATER HEATERS

### RECOVERY CAPACITY

| Model Number  | Type of Gas<br>(Series 410 field selectable) | Input   |     | Thermal Efficiency |
|---------------|----------------------------------------------|---------|-----|--------------------|
|               |                                              | BTU/HR  | kW  |                    |
| SUF60 100(A)  | Natural/Propane                              | 100,000 | 29  | 97%                |
| SUF60 120(A)  | Natural/Propane                              | 120,000 | 35  | 97%                |
| SUF60 145(A)  | Natural/Propane                              | 145,000 | 42  | 95%                |
| SUF100 150(A) | Natural/Propane                              | 150,000 | 44  | 97%                |
| SUF100 199(A) | Natural/Propane                              | 199,900 | 58  | 96%                |
| SUF100 250(A) | Natural/Propane                              | 250,000 | 73  | 95%                |
| SUF119 251(A) | Natural/Propane                              | 251,000 | 74  | 97%                |
| SUF119 300(A) | Natural/Propane                              | 300,000 | 88  | 97%                |
| SUF119 400(A) | Natural/Propane                              | 399,900 | 117 | 95%                |
| SUF119 500(A) | Natural/Propane                              | 499,900 | 146 | 95%                |

| Model Number  | Table 2. Recovery Capacities |     |                                                           |      |      |      |      |      |      |      |       |       |       |       |       |
|---------------|------------------------------|-----|-----------------------------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
|               | Input                        |     | U.S. Gallons/hr & liters/hr at temperature rise indicated |      |      |      |      |      |      |      |       |       |       |       |       |
|               |                              |     | °F                                                        | 30°F | 40°F | 50°F | 60°F | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F | 130°F | 140°F |
|               | Btu/hr                       | kW  | °C                                                        | 17°C | 22°C | 28°C | 33°C | 39°C | 44°C | 50°C | 56°C  | 61°C  | 67°C  | 72°C  | 78°C  |
| SUF60 100(A)  | 100,000                      | 29  | GPH                                                       | 384  | 288  | 230  | 192  | 165  | 144  | 128  | 115   | 105   | 96    | 89    | 82    |
|               |                              |     | LPH                                                       | 1453 | 1090 | 872  | 726  | 623  | 545  | 484  | 436   | 396   | 363   | 335   | 311   |
| SUF60 120(A)  | 120,000                      | 35  | GPH                                                       | 461  | 345  | 276  | 230  | 197  | 173  | 154  | 138   | 126   | 115   | 106   | 99    |
|               |                              |     | LPH                                                       | 1743 | 1308 | 1046 | 872  | 747  | 654  | 581  | 523   | 475   | 436   | 402   | 374   |
| SUF60 145(A)  | 145,000                      | 42  | GPH                                                       | 551  | 413  | 331  | 276  | 236  | 207  | 184  | 165   | 150   | 138   | 127   | 118   |
|               |                              |     | LPH                                                       | 2084 | 1563 | 1250 | 1042 | 893  | 781  | 695  | 625   | 568   | 521   | 481   | 446   |
| SUF100 150(A) | 150,000                      | 44  | GPH                                                       | 576  | 432  | 345  | 288  | 247  | 216  | 192  | 173   | 157   | 144   | 133   | 123   |
|               |                              |     | LPH                                                       | 2179 | 1634 | 1308 | 1090 | 963  | 817  | 726  | 654   | 594   | 545   | 503   | 467   |
| SUF100 199(A) | 199,900                      | 58  | GPH                                                       | 768  | 576  | 461  | 384  | 329  | 294  | 288  | 256   | 230   | 209   | 192   | 177   |
|               |                              |     | LPH                                                       | 2906 | 2179 | 1744 | 1453 | 1245 | 1112 | 1090 | 967   | 872   | 793   | 726   | 671   |
| SUF100 250(A) | 250,000                      | 73  | GPH                                                       | 960  | 720  | 576  | 480  | 411  | 360  | 320  | 288   | 262   | 240   | 221   | 206   |
|               |                              |     | LPH                                                       | 3632 | 2724 | 2179 | 1816 | 1557 | 1362 | 1211 | 1090  | 991   | 908   | 838   | 778   |
| SUF119 251(A) | 251,000                      | 74  | GPH                                                       | 963  | 723  | 578  | 481  | 413  | 361  | 321  | 289   | 263   | 241   | 222   | 206   |
|               |                              |     | LPH                                                       | 3647 | 2735 | 2188 | 1823 | 1563 | 1368 | 1214 | 1094  | 995   | 912   | 842   | 781   |
| SUF119 300(A) | 300,000                      | 88  | GPH                                                       | 1152 | 864  | 691  | 576  | 494  | 432  | 384  | 345   | 314   | 288   | 266   | 247   |
|               |                              |     | LPH                                                       | 4359 | 3269 | 2615 | 2179 | 1868 | 1635 | 1453 | 1307  | 1189  | 1090  | 1005  | 934   |
| SUF119 400(A) | 399,900                      | 117 | GPH                                                       | 1535 | 1152 | 921  | 768  | 658  | 576  | 512  | 461   | 419   | 384   | 354   | 329   |
|               |                              |     | LPH                                                       | 5812 | 4358 | 3487 | 2906 | 2491 | 2179 | 1937 | 1744  | 1585  | 1453  | 1341  | 1245  |
| SUF119 500(A) | 499,000                      | 146 | GPH                                                       | 1919 | 1439 | 1152 | 960  | 823  | 720  | 640  | 576   | 523   | 480   | 443   | 411   |
|               |                              |     | LPH                                                       | 7265 | 5448 | 4358 | 3632 | 3114 | 2724 | 2421 | 2179  | 1981  | 1816  | 1677  | 1557  |

Recovery capacities are based on 95% thermal efficiency.

### STORAGE CAPACITY

| Model Number  | U.S. Gallons | Liters |
|---------------|--------------|--------|
| SUF60 100(A)  | 60           | 227    |
| SUF60 120(A)  | 60           | 227    |
| SUF60 145(A)  | 60           | 227    |
| SUF100 150(A) | 100          | 379    |
| SUF100 199(A) | 100          | 379    |
| SUF100 250(A) | 100          | 379    |
| SUF119 251(A) | 119          | 451    |
| SUF119 300(A) | 119          | 451    |
| SUF119 400(A) | 119          | 451    |
| SUF119 500(A) | 119          | 451    |

### GAS LINE CONNECTION SIZE

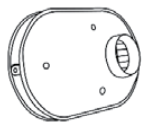
| Model         | Series | Gas Connection |
|---------------|--------|----------------|
| SUF60 100(A)  | 410    | 3/4" NPT       |
| SUF60 120(A)  | 410    | 3/4" NPT       |
| SUF60 145(A)  | 410    | 3/4" NPT       |
| SUF100 150(A) | 410    | 3/4" NPT       |
| SUF100 199(A) | 410    | 3/4" NPT       |
| SUF100 250(A) | 410    | 3/4" NPT       |
| SUF119 251(A) | 410    | 1-1/2" NPT     |
| SUF119 300(A) | 410    | 1-1/2" NPT     |
| SUF119 400(A) | 410    | 1-1/2" NPT     |
| SUF119 500(A) | 410    | 1-1/2" NPT     |

### OPTIONAL KITS



#### OPTIONAL CONCENTRIC VENT KITS

- SUF-100 - 250 vent kit p/n 100111100
- SUF-251 - 500 vent kit p/n 100113124



#### OPTIONAL LOW PROFILE TERMINATION VENT KITS

- 2" Flush Mount Vent Kit p/n 100187903
- 3" Flush Mount Vent Kit p/n 100187887
- 4" Flush Mount Vent Kit p/n 100187888
- 6" Flush Mount Vent Kit p/n 100187889

### COMMON VENTING KITS FOR UP TO 3 WATER HEATERS (ONE KIT PER WATER HEATER REQUIRED)

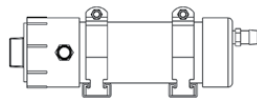
| Kit       | Description                                     |
|-----------|-------------------------------------------------|
| 100227396 | PVC Common Vent Kit, 100-250 Models             |
| 100223775 | PVC Common Vent Kit, 251 - 500 Models           |
| 100227395 | Polypropylene Common Vent Kit, 100-250 Models   |
| 100223774 | Polypropylene Common Vent Kit, 251 - 500 Models |

Installations must comply with all national, state and local codes.

See kit instructions and corresponding water heater manual for detailed installation instructions and additional information.  
50 Feet maximum equivalent length of straight pipe common vent and elbows

NOTE: 1 kit per water heater required

See the Common Vent Kit manual or spec sheet for detailed information.



#### OPTIONAL CONDENSATE NEUTRALIZATION KITS

- SUF-100 - 300 kit p/n 100289339
- SUF-400 - 500 kit p/n 100374577



#### OPTIONAL BMS GATEWAY DEVICE

- SUF-100 - 500 kit p/n 100378810

### SPECIFICATION

(Natural or Propane) gas water heater(s) shall be State Ultra Force Flex model # \_\_\_\_\_ or equal, minimum 95% thermal efficiency, a storage capacity of \_\_\_\_\_ gallons, an input rating of \_\_\_\_\_ BTUs per hour, a recovery rating of \_\_\_\_\_ gallons per hour (gph) at 100°F rise and a maximum hydrostatic working pressure of 160 psi. Water heater(s) shall: 1. Adaptive gas controlled modulating gas burner that automatically adjusts the input based on demand. Capable of field fuel type selection without kit.. 2. Powered anodes that are non sacrificial and maintenance free. 3. Have seamless glass-lined steel tank construction, with glass lining applied to all water-side surfaces after the tank has been assembled and welded; 4. Meets the thermal efficiency and/or standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1; 5. Have foam insulation and a CSA Certified and ASME rated T&P relief valve; 6. Have a down-fired power burner designed for precise mixing of air and gas for optimum efficiency, requiring no special calibration on start-up; 7. Be approved for 0" clearance to combustibles. 8. Come standard with leak detection module that provides audible and display notification if leak is detected.

The control shall be an integrated solid-state temperature and ignition control device with integral diagnostics, graphic user interface, fault history display, and shall have digital temperature readout. 1. All models are design certified by Underwriters Laboratories (UL), Inc., according to ANSI Z21.10.3 - CSA 4.3 standards governing storage type water heaters; 2. Meet the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition ASHRAE/IES 90.1. Complies with SCAQMD Rule 1146.2 and other air quality management districts with similar requirements for low NOx emissions.

60 Gallon Models: For Standard Power Venting: Water heater(s) shall be suitable for power venting using a (2", 3" or 4") \_\_\_\_\_ diameter PVC pipe for a maximum total distance of (75 ft, 100 ft or 150 ft.) \_\_\_\_\_ equivalent feet of vent piping. For Power Direct Venting: Water heater(s) shall be suitable for power direct venting using a (2", 3" or 4") \_\_\_\_\_ diameter PVC pipe for a maximum total distance of (75 ft, 100 ft or 120 ft.) \_\_\_\_\_ equivalent feet of vent piping and (75 ft, 100 ft. or 150 ft.) \_\_\_\_\_ equivalent feet of intake air piping.

100 Gallon Models: For Standard Power Venting: Water heater(s) shall be suitable for power venting using a (2", 3" or 4") \_\_\_\_\_ diameter PVC pipe for a maximum total distance of (50 ft, 150 ft or 150 ft.) \_\_\_\_\_ equivalent feet of vent piping. For Power Direct Venting: Water heater(s) shall be suitable for power direct venting using a (2", 3" or 4") \_\_\_\_\_ diameter PVC pipe for a maximum total distance of (50 ft, 150 ft or 200 ft.) \_\_\_\_\_ equivalent feet of vent piping and (50 ft, 150 ft. or 200 ft.) \_\_\_\_\_ equivalent feet of intake air piping.

119 Gallon Models: For Standard Power Venting: Water heater(s) shall be suitable for standard power venting using a (4" or 6") \_\_\_\_\_ diameter PVC pipe for a maximum total distance of (100 ft. or 150 ft.) \_\_\_\_\_ equivalent feet of vent piping. For Power Direct Venting: Water heater(s) shall be suitable for power direct venting using a (4" or 6") \_\_\_\_\_ diameter PVC pipe for a maximum total distance of (100 ft. or 150 ft.) \_\_\_\_\_ equivalent feet of vent piping and (100 ft. or 150 ft.) \_\_\_\_\_ equivalent feet of intake air piping.

Operation of the water heater(s) in a closed system where thermal expansion has not been compensated for (with a properly sized thermal expansion tank) will void the warranty.

Water heater should incorporate the iCOMM™ system for remote monitoring, leak detection and fault alert.

For Technical Information, call 800-527-1953. State Corporation reserves the right to make product changes or improvements without prior notice.