



# SFE Series IV

**There Are Some Things You Can Always Depend On...**



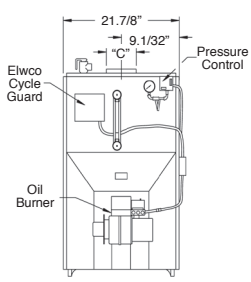
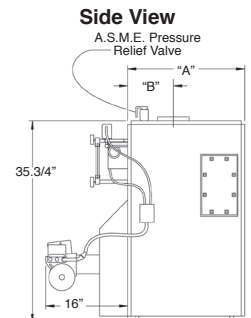
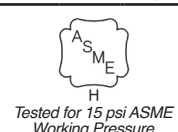
## SFE IV

82% AFUE Oil Fired Steam Boiler

- Available in 4 sizes from 106 MBH to 247 MBH.
- Dependable Cast Iron Heat Exchanger with Cast Iron Push Nipples. The Sections and Push Nipples expand at the same rate when heated. By using similar materials instead of less expensive gaskets the boiler maintains a water tight seal over time.
- Patented Protective Heat Shield Baffle to protect the casting above the water line.
- Honeywell Pressure Control, Boiler Water Level Gauge Glass, and Steam Pressure Gauge.
- Electronic Low Water Cutoff.
- Atmospheric Chimney Vent Boiler.
- Textured paint Jacket with compact footprint.
- Cast Iron swing door and large flueways allow for easy cleaning and servicing.
- 10 Year Limited Warranty (Residential Applications).
- Made in the U.S.A.



# Utica SFE Series IV Residential Oil Fired Steam Boiler

| Dimensional Diagram                                                                                                                                                                                            | Model                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AHRI Oil Burner Input <sup>(1)</sup> |                                                   | Htg. Cap. MBH <sup>(4)</sup>   | Net AHRI Ratings <sup>(3)</sup>  |               | Min. Nat. Draft Chimney Size |           | Pump Press. PSI | Nozz. Furn.  | AFUE % |  |  |  |              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------|--------------------------------|----------------------------------|---------------|------------------------------|-----------|-----------------|--------------|--------|--|--|--|--------------|--|
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | G.P.H.                               | MBH <sup>(2)</sup>                                |                                | Steam MBH                        | Sq. Ft. Steam | Round                        | Square    |                 |              |        |  |  |  |              |  |
| <div>Front View</div>  <div>Side View</div>  | Without Tankless                                                                                                                                                                                                                                        | SFE-3090S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.90                                 | 126                                               | 106                            | 80                               | 333           | 6"                           | 8"x8"x15' | 150             | 0.75-60"B    | 82.0%  |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         | SFE-4125S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.25                                 | 175                                               | 147                            | 110                              | 458           | 6"                           | 8"x8"x15' | 140             | 1.10-60"B    | 82.0%  |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         | SFE-5185S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.85                                 | 259                                               | 216                            | 162                              | 675           | 8"                           | 8"x8"x15' | 150             | 1.50-70"B    | 82.0%  |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         | SFE-6210S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.10                                 | 294                                               | 247                            | 185                              | 771           | 8"                           | 8"x8"x15' | 145             | 1.75-70"B    | 82.0%  |  |  |  |              |  |
|                                                                                                                                                                                                                | With Tankless                                                                                                                                                                                                                                           | SFE-3090ST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.90                                 | 126                                               | 106                            | 80                               | 333           | 6"                           | 8"x8"x15' | 150             | 0.75-60"B    | 82.0%  |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         | SFE-4125ST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.25                                 | 175                                               | 147                            | 110                              | 458           | 6"                           | 8"x8"x15' | 140             | 1.10-60"B    | 82.0%  |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         | SFE-5185ST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.85                                 | 259                                               | 216                            | 162                              | 675           | 8"                           | 8"x8"x15' | 150             | 1.50-70"B    | 82.0%  |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         | SFE-6210ST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.10                                 | 294                                               | 247                            | 185                              | 771           | 8"                           | 8"x8"x15' | 145             | 1.75-70"B    | 82.0%  |  |  |  |              |  |
|                                                                                                                                                                                                                | (1) Burner input is based on an oil heating value of 140,000 Btu/gal.                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                | (2) MBH = 1000 Btu per hour [Btu = British Thermal Unit].                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                | (3) Net AHRI Steam Ratings based on piping and pick-up allowance of 1.333. Consult manufacturer before selecting boiler for installations having unusual piping and pick-up requirements, such as intermittent system operation, extensive piping, etc. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                | (4) Electrical service is 120 Volts, 15 Amps, 60 Hz.                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| General Information (See Installation, Operation and Maintenance Manual for complete instructions)                                                                                                             |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| Clearances Required distances measured from boiler.                                                                                                                                                            | Top                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                | Combustible Materials (Required) |               |                              |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                | 24" (610 mm)                     |               |                              |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                | Left Side (Control Side)         |               |                              |           |                 | 6" (152 mm)  |        |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                |                                  |               |                              |           |                 | Right Side   |        |  |  |  | 24" (610 mm) |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  | 24" (610 mm) |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                | Front                            |               |                              |           |                 | 24" (610 mm) |        |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                | Back                             |               |                              |           |                 | 24" (610 mm) |        |  |  |  |              |  |
| Flue Connector                                                                                                                                                                                                 |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   | 9" (229 mm)                    |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| Connections (All Models)                                                                                                                                                                                       |                                                                                                                                                                                                                                                         | Supply Tapping Two 2", Return Tapping 1-1/2", Oil Line 3/8" O.D. copper tubing for runs of 50 feet or less, and 1/2" O.D. for longer runs.                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| Electrical                                                                                                                                                                                                     |                                                                                                                                                                                                                                                         | 120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| Tankless Heater Capacities                                                                                                                                                                                     | Model                                                                                                                                                                                                                                                   | Input Rate G.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tankless Heater Number               | Tankless Heater Capacity Intermittent Draw G.P.M. | Boiler Water Content (Gallons) |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   | To Water Line                  | To LWCO Line                     |               |                              |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   | SFE-3090ST                     | 0.90                             | L-24          | Avail. On Req.               | 11        | 8               |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                   | SFE-4125ST                     | 1.25                             |               | 4.5                          | 13        | 9               |              |        |  |  |  |              |  |
| SFE-5185ST                                                                                                                                                                                                     | 1.85                                                                                                                                                                                                                                                    | 4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15                                   | 10                                                |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| SFE-6210ST                                                                                                                                                                                                     | 2.10                                                                                                                                                                                                                                                    | 4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15                                   | 10                                                |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| Dimensions/Weights                                                                                                                                                                                             | No. of Sec.                                                                                                                                                                                                                                             | A (Length of Flush Jacket)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      | B (Front of Jacket to Center Line of Flue Outlet) |                                | C (Flue Outlet Diameter)         |               | Weight                       |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                | 3                                                                                                                                                                                                                                                       | 16.375"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | 6.5"                                              |                                | 6"                               |               | 534 lbs.                     |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                | 4                                                                                                                                                                                                                                                       | 20.25"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      | 8.5"                                              |                                | 6"                               |               | 688 lbs.                     |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                | 5                                                                                                                                                                                                                                                       | 23.875"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | 10.25"                                            |                                | 7"                               |               | 781 lbs.                     |           |                 |              |        |  |  |  |              |  |
|                                                                                                                                                                                                                | 6                                                                                                                                                                                                                                                       | 27.5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      | 8.3125"                                           |                                | 8"                               |               | 901 lbs.                     |           |                 |              |        |  |  |  |              |  |
| Standard Equipment                                                                                                                                                                                             |                                                                                                                                                                                                                                                         | Boiler Controls: Honeywell Pressuretrol, Boiler Water Level Gauge Glass, and Steam Pressure Gauge.<br>Heat Exchanger: Cast Iron Heat Exchanger with Cast Iron Push Nipples, Swing Door.<br>Combustion: Beckett Oil Burner, Target Wall/Liner.<br>Electrical: Wiring Harness, Burner Electric Disconnect.<br>Safety: Electronic Low Water Cut Off.<br>Other: Crated Boiler, Flush Jacket, ASME Relief Valve, Drain Valve, Plastic Cover, Two 2" Supply Tappings, 1-1/2" Return Tapping and Skim Port.<br>For Tankless Heater Units: Add Tankless Hot Water Coil and 4006 Limit Control. |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| Options                                                                                                                                                                                                        |                                                                                                                                                                                                                                                         | Taco or Grundfos; Tankless Coil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |
| Certifications                                                                                                                                                                                                 |                                                                                                                                                                                                                                                         | <div></div>                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |                                                   |                                |                                  |               |                              |           |                 |              |        |  |  |  |              |  |

All ratings and specifications subject to change.

PN 240009857 Rev. 4/13

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