

# MULTI-ENERGY TANKS



Heat-flo's industry-leading, Multi-Energy Tanks are ideal for a variety of residential and commercial solar hot water and heating applications. Each Multi Energy Tank is available with or without a heat exchanger, in 60, 80 or 115 gallon capacities. Tanks with heat exchangers are available with one or two coil configurations.

Our versatile Heat-flo multi-energy tanks configured with heat exchanger coils can be connected directly to solar collectors to maximize efficiency. Units without coils can be connected to external brazed plate heat exchangers. All units are available with or without built-in electric backup.

Units equipped with electric backup are provided with a heating element, thermostat, and controls that can heat the tank if solar heat is not available, ensuring consistent hot water performance. Additionally, all electric backup units are also equipped with a high quality low watt density 240 volt AC, 3500 watt element. All units are equipped with a removable thermal well to accept a solar control thermostat or thermistor.

## FEATURES AND BENEFITS INCLUDE:

### QUALITY DESIGN & CONSTRUCTION

- Tanks and coils are all stainless steel.
- Large, smooth, stainless steel coils; no finned tubing to collect lime and sediment.
- Over 2" of insulation, providing less than 1° / hr. heat loss.
- Flexible thermoplastic jacket that will not corrode and resists denting.

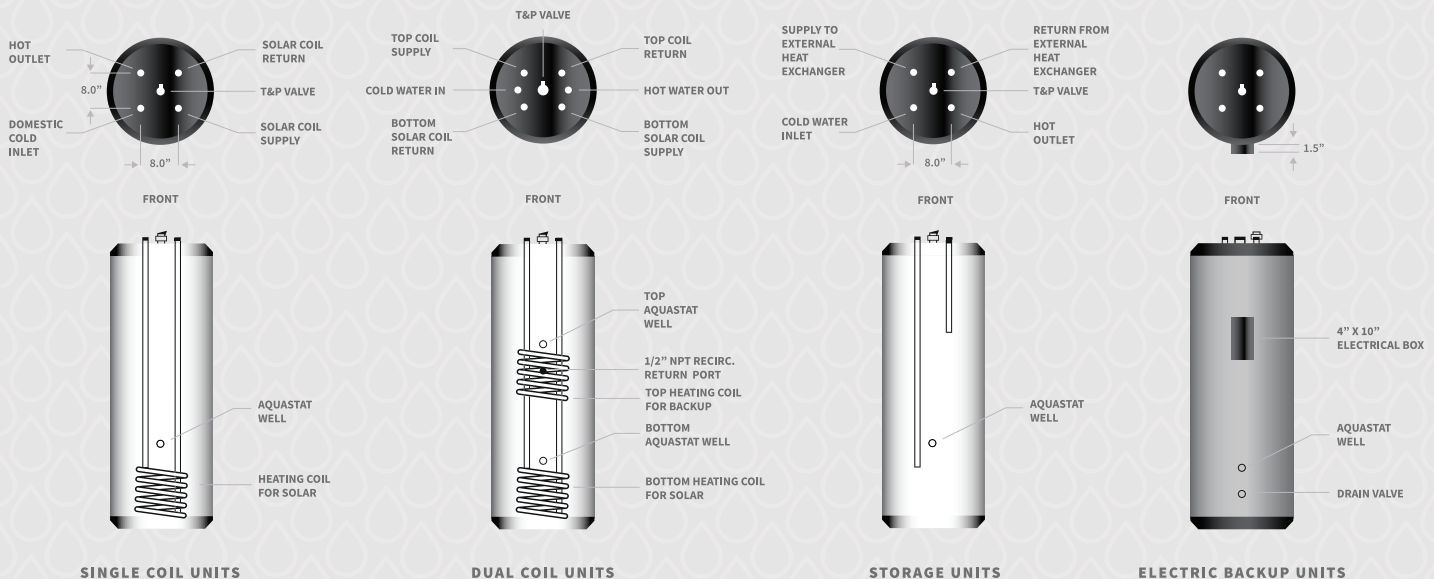
### EASY INSTALLATION

- All pipe connections are on top for a neat, quick and clean installation.
- Brass drain and relief valves are factory installed.
- Includes thermostat well.
- Large 4" X 10" electrical box with pre-wired heating element, thermostat, and high limit on electric backup units.
- Long life, low watt density element.



HF-115 / HF-80 / HF-60  
 HF-115-E / HF-80-E / HF-60-E  
 HF-115-D / HF-80-D / HF-60-D  
 HF-115-DE / HF-80-DE / HF-60-DE  
 HF-115-ST / HF-80-ST / HF-60-ST

## SYSTEM CONNECTION CONFIGURATIONS & DIMENSIONS FOR EACH MODEL





Conforms to UL STD 174 and NSF/ANSI 372 Certified to CAN/CSA STD C22.2 No. 110-94



ALL HEAT-FLO PRODUCTS ARE PROUDLY ENGINEERED & BUILT IN THE USA



**RAISING THE STANDARD**

**DIMENSIONS & CAPACITIES**

| MODEL | Storage Volume | Top Coil Heating Surface | Bottom Coil Heating Surface | Dimensions (inches) |        | Pipe Connections | Max. Working Pressure | Approximate Shipping Wt. |
|-------|----------------|--------------------------|-----------------------------|---------------------|--------|------------------|-----------------------|--------------------------|
|       | (Gal.)         | (Sq. Ft.)                | (Sq. Ft.)                   | (Ht.)               | (Dia.) | (NPT)            | (psi)                 | (Lbs.)                   |

**SINGLE COIL - NO ELECTRIC BACKUP**

|        |     |   |     |      |      |    |     |     |
|--------|-----|---|-----|------|------|----|-----|-----|
| HF-115 | 115 | — | 9.1 | 74.0 | 28.0 | 1" | 150 | 175 |
| HF-80  | 80  | — | 8.2 | 56.0 | 28.0 | 1" | 150 | 140 |
| HF-60  | 60  | — | 8.6 | 62.0 | 23.5 | 1" | 150 | 125 |

**SINGLE COIL WITH 3,500 WATT ELECTRIC BACKUP**

|          |     |   |     |      |      |    |     |     |
|----------|-----|---|-----|------|------|----|-----|-----|
| HF-115-E | 115 | — | 9.1 | 74.0 | 28.0 | 1" | 150 | 180 |
| HF-80-E  | 80  | — | 8.2 | 56.0 | 28.0 | 1" | 150 | 145 |
| HF-60-E  | 60  | — | 8.6 | 62.0 | 23.5 | 1" | 150 | 135 |

**DUAL COIL - NO ELECTRIC BACKUP**

|          |     |     |     |      |      |    |     |     |
|----------|-----|-----|-----|------|------|----|-----|-----|
| HF-115-D | 115 | 7.4 | 9.1 | 74.0 | 28.0 | 1" | 150 | 205 |
| HF-80-D  | 80  | 7.4 | 8.2 | 56.0 | 28.0 | 1" | 150 | 175 |
| HF-60-D  | 60  | 7.4 | 8.6 | 62.0 | 23.5 | 1" | 150 | 135 |

**DUAL COIL WITH 3,500 WATT ELECTRIC BACKUP**

|           |     |     |     |      |      |    |     |     |
|-----------|-----|-----|-----|------|------|----|-----|-----|
| HF-115-DE | 115 | 7.4 | 9.1 | 74.0 | 28.0 | 1" | 150 | 215 |
| HF-80-DE  | 80  | 7.4 | 8.2 | 56.0 | 28.0 | 1" | 150 | 185 |
| HF-60-DE  | 60  | 7.4 | 8.6 | 62.0 | 23.5 | 1" | 150 | 175 |

**STORAGE ONLY - NO COIL, NO ELECTRIC BACKUP**

|           |     |   |                      |      |      |    |     |     |
|-----------|-----|---|----------------------|------|------|----|-----|-----|
| HF-115-ST | 115 | — | No Coil Storage Only | 74.0 | 28.0 | 1" | 150 | 170 |
| HF-80-ST  | 80  | — |                      | 56.0 | 28.0 | 1" | 150 | 130 |
| HF-60-ST  | 60  | — |                      | 62.0 | 23.5 | 1" | 150 | 115 |

| MODEL          | Top Coil Max Recovery | Bottom Coil Max. Recovery | Water Flow Through Coil | Pressure Drop Through Coil |
|----------------|-----------------------|---------------------------|-------------------------|----------------------------|
|                | (Gal./Hr.)            | (Gal./Hr.)                | (Gal./Min.)             | (Ft. Water)                |
| 115-Gal. Units | 190                   | 214                       | 10.0                    | 3.9                        |
| 80-Gal. Units  | 180                   | 214                       | 10.0                    | 3.6                        |
| 60-Gal. Units  | 185                   | 214                       | 10.0                    | 3.5                        |

**FOR ALL UNITS WITH 3,500 WATT ELECTRIC BACKUP**

| MODEL         | First Hour Rating (Gal./Hr.) |       | Continuous Rating (Gal./Hr.) |       |
|---------------|------------------------------|-------|------------------------------|-------|
|               | 140°F                        | 115°F | 140°F                        | 115°F |
|               | 115-Gal. Units               | 73.9  | 80.0                         | 15.9  |
| 80-Gal. Units | 55.9                         | 62.0  | 15.9                         | 22.0  |
| 60-Gal. Units | 45.9                         | 52.0  | 15.9                         | 22.0  |

Note: All ratings are based on 180°F boiler water supply and 50°F cold water inlet. In the interest of continuous improvement, specifications are subject to change without notice.



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