

A Complete Offering of Stainless Steel

- Indirect Water Heaters
- Hot Water Storage Tanks
- Solar Storage Tanks
- Hydronic Buffer Tanks
- Sizes 22 to 115 Gallons



Heat-Flo

HEATING PRODUCTS

Heat-Flo

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Heat-Flo, Inc. is a full-service design and manufacturing firm dedicated to providing high-quality, cost-effective solutions for hydronic, solar, and electric based water heating applications, and hydronic and radiant heating applications.

Heat-Flo originates all product design, manufacturing, sales, and ongoing market support at their facility in Uxbridge, Massachusetts, USA.

Our mission is to provide our customers with high-quality, cost-effective product solutions through superior design and manufacturing execution.

Heat-Flo's *Indirect Water Heaters* are the most user friendly units in the industry. All pipe connections are located on the top for a clean, easy installation. Tanks are shipped with drain valve, T&P valve,





and a welded stainless steel cold water dip tube factory installed and pressure tested. A Honeywell temperature control is offered as standard equipment with all single coil Indirect Water Heaters and Hot Water Storage Tanks.

Hot Water Storage Tanks are designed with dedicated heat source supply and return dip tubes located to assure precise temperature control. The supply and return from the heat source are hydraulically decoupled from the cold and hot connections and flow variations. These versatile units offer unlimited applications for creating abundant hot water utilizing external heat sources.

A complete line of *Solar Storage Tanks* offering the same user friendly design features are manufactured with one coil, two coils, or no coil

and with or without electric backup heating. High quality stainless steel *Hydronic Buffer Tanks* are offered in 22, 40, 60, 80, and 115 gallon sizes with choice of 1-1/4", 1-1/2", or 2" NPT taps to match system requirements. These buffer tanks are available with the option of one or two built-in coils. Custom tapping configurations are available upon request.

Products conform to:

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

Heat-Flo is proud to be manufacturing these products at their expanded, modern facility in Uxbridge, Massachusetts, USA.

**"Our mission is to provide
our customers with high
quality, cost effective
product solutions through
superior design and
manufacturing execution."**



HF-Stainless Steel Indirect Water Heaters

Heat-Flo offers quality indirect water heating systems that provide abundant hot water, low operating cost, and long life. Hot water from any heating boiler is circulated through the coil inside to heat all the water in the tank. Simply add another zone to your existing heating boiler.



Features and Benefits Include:

1. Quality Design and Construction

- Tanks and coils are all stainless steel construction.
- Large, smooth-wall coils deliver full output for years. No finned tubing to collect lime and sediment.
- Includes over 2" of insulation and a flexible thermoplastic jacket that will not dent or corrode, and less than 1°/hr. heat loss.

2. Easy Installation

- All connections are on top on the standard units for a neat, clean installation.
- Brass drain and relief valves are factory installed.
- Honeywell L4080B aquastat control is standard.

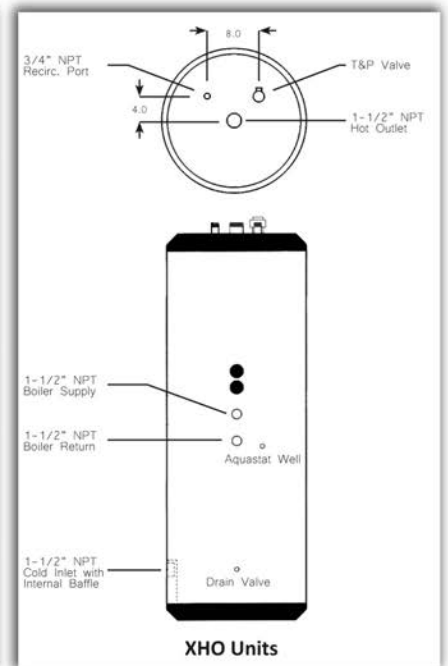
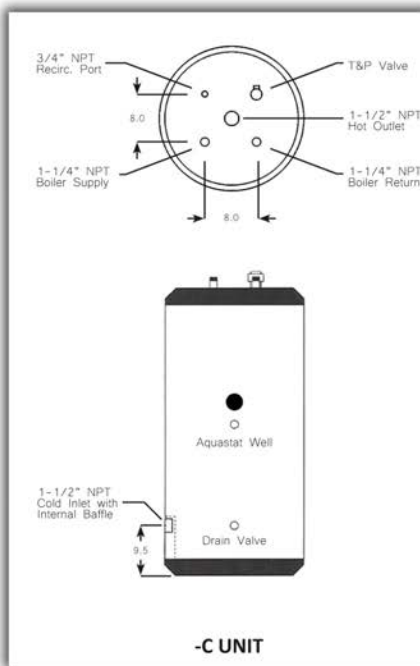
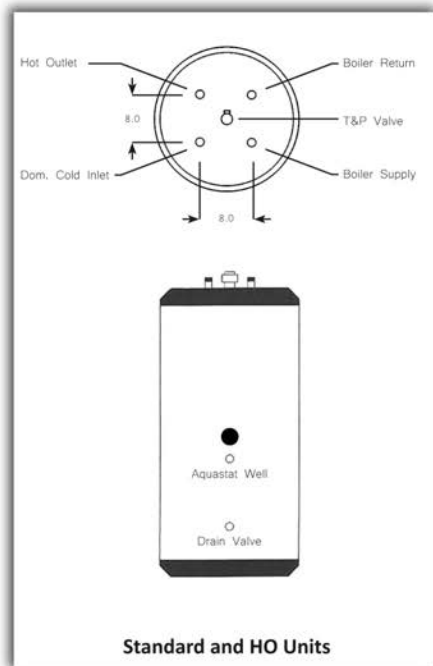
3. Residential and Commercial

- Models are available with 30, 40, 50, 60, 80, and 115 gallon tanks.
- Bank together 80 and 115 gallon units for applications with high water heating demands.
- Limited lifetime warranty residential installation, 5 year commercial.

Dimensions and Capacities

Model	Storage Volume (Gal.)	Coil Heating Surface (Sq. Ft.)	Dimensions (Inches)		Piping Connections (NPT)		Max. Tank Working Pressure (psi)	Max. Coil Working Pressure (psi)	Approx. Shipping Wt. (Lbs.)
			(Ht.)	(Dia.)	Domestic Water In/ Out	Boiler Water In/ Out			
HF-30	30	7.3	34.0	23.5	3/4	1	150	90	85
HF-40	40	7.7	44.0	23.5	3/4	1	150	90	100
HF-40L	42	7.4	36.0	28.0	3/4	1	150	90	100
HF-50	50	8.2	54.0	23.5	3/4	1	150	90	110
HF-60	60	8.6	62.0	23.5	3/4	1	150	90	125
HF-60L	60	7.7	46.0	28.0	3/4	1	150	90	120
HF-80	80	8.2	56.0	28.0	1	1	150	90	140
HF-115	115	9.1	74.0	28.0	1	1	150	90	175
High Output Units									
HF-60-HO	60	15.1	62.0	23.5	1	1	150	90	140
HF-80-HO	80	14.8	56.0	28.0	1	1	150	90	155
HF-80-HO-C	80	14.8	56.0	28.0	1 1/2	1 1/4	150	90	155
HF-115-HO	115	15.6	74.0	28.0	1	1	150	90	190
HF-115-HO-C	115	15.6	74.0	28.0	1 1/2	1 1/4	150	90	190
HF-85-XHO	87	28.7	64.0	28.0	1 1/2	1 1/2	150	90	215
HF-115-XHO	115	28.7	74.0	28.0	1 1/2	1 1/2	150	90	240

Indirect Water Heaters



200° F Boiler Supply Ratings

Model	First Hour Rating (Gal./Hr.)		Continuous Rating (Gal./Hr.)		Boiler Output Needed (BTU/ Hr.)	Boiler Water Flow Through Coil (Gal./ Min.)	Pressure Drop Through Coil (Ft. Water)	First Hour Rating (Gal./Hr.)		Continuous Rating (Gal./Hr.)		Boiler Output Needed (BTU/ Hr.)
	140° F	115° F	140° F	115° F				140° F	115° F	140° F	115° F	
HF-30	202	269	175	242	131,250	14.0	5.3	176	233	149	206	111,560
HF-40	221	292	185	256	138,670	14.0	5.7	193	254	157	218	117,870
HF-40L	212	251	176	215	132,000	14.0	5.3	186	251	150	215	112,200
HF-50	223	291	178	246	133,280	14.0	6.0	196	254	151	209	113,290
HF-60	262	342	208	288	155,700	14.0	6.2	231	298	177	244	132,340
HF-60L	239	310	185	256	138,570	14.0	5.7	211	272	157	218	117,785
HF-80	271	348	199	276	149,390	14.0	6.0	241	306	169	234	126,980
HF-115	324	409	221	306	165,750	14.0	6.0	291	363	188	260	140,890

High Output Units

HF-60-HO	406	541	352	487	263,900	14.0	10.1	353	468	299	414	220,880
HF-80-HO	418	551	346	479	259,340	14.0	9.9	366	479	294	407	220,440
HF-80-HO-C	442	584	370	512	277,070	21.0	10.5	386	507	314	435	235,510
HF-115-HO	467	607	364	504	273,100	14.0	15.8	413	532	310	429	232,135
HF-115-HO-C	479	623	376	520	281,800	21.0	16.7	423	545	320	442	239,530
HF-85-XHO	738	992	660	914	495,000	28.0	13.0	649	868	571	790	428,000
HF-115-XHO	763	1017	660	914	495,000	28.0	13.0	674	893	571	790	428,000

Note: All Ratings are based on 50 degree F cold water inlet.

In the interest of continuous improvement, specifications are subject to change without notice.



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

Hot Water Boost

Heat-Flo offers quality, well-insulated hot water storage tanks that provide the abundant hot water that today's homes require. Homes with multiple baths, hot tubs, and body sprays increase the requirement for the "dump loads" that tankless coils, instantaneous water heaters, and plate heat exchangers can not provide. By adding hot water storage, the system designer can achieve an energy efficient balance between heat input and storage by taking full advantage of a high-efficiency heat source. The result will be reduced burner cycling and abundant hot water.



Features and Benefits Include:

1. Quality Design and Construction

- All stainless steel.
- R-12 insulation, less than 1°/ hr. heat loss.
- Flexible thermoplastic jacket that will not dent or corrode.
- Stainless steel dip tubes.

2. Easy Installation

- All connections are on top on the standard units. Connecting to a high-efficiency wall-mount boiler or instantaneous water heater is about as easy as it gets.
- Units are provided with two separate connections for heat source supply and return. The result is excellent temperature control and no guesswork. Heat source supply and return connections are hydraulically decoupled from cold and hot. High hot water draw rates will not effect the circulator/ control performance.
- Drain valve and T&P valve are factory installed.
- Honeywell L4080B control is standard.

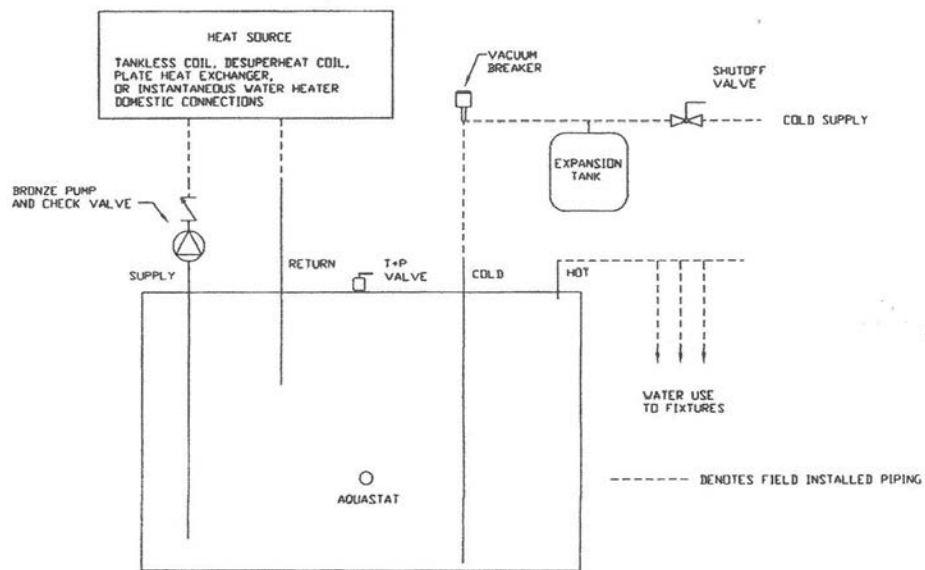
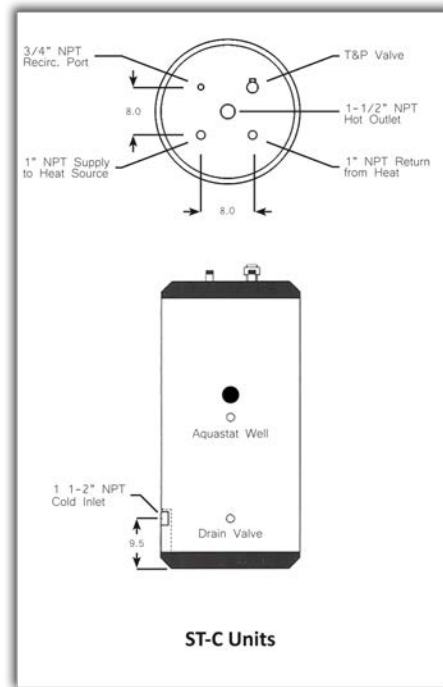
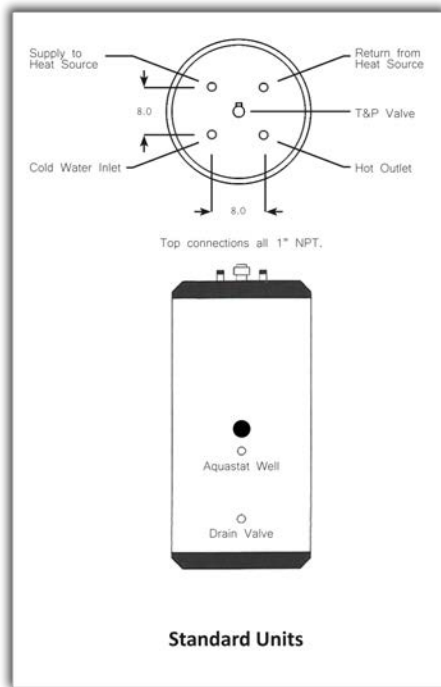
3. Residential and Commercial

- Models available with 30, 40, 60, 80, and 115 gallon tanks.
- Banking together 80 and 115 gallon units for applications with high water heating demands.

Dimensions and Capacities

Model	Storage Volume	Dimensions (Inches)		Piping Connections (NPT)		Max. Tank Working Pressure	Approx. Shipping Wt.
				Domestic Water	Boiler Water		
	(Gal.)	(Ht.)	(Dia.)	In/ Out	In/ Out	(psi)	(Lbs.)
HF-30-ST	30	34.0	23.5	1	1	150	75
HF-40-ST	40	44.0	23.5	1	1	150	90
HF-40L-ST	42	36.0	28.0	1	1	150	90
HF-60-ST	60	62.0	23.5	1	1	150	115
HF-60L-ST	60	46.0	28.0	1	1	150	110
HF-80-ST	80	56.0	28.0	1	1	150	140
HF-115-ST	115	74.0	28.0	1	1	150	175
HF-80-ST-C	80	56.0	28.0	1 1/2	1	150	140
HF-115-ST-C	115	74.0	28.0	1 1/2	1	150	175

er/ Storage Tanks



HOT WATER BOOSTER / STORAGE TANK
DOMESTIC WATER HEATING SYSTEM / TYPICAL SCHEMATIC
Note: Installation must conform to all local codes.



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

Solar Hot Water

Solar hot water storage tanks are made in 60, 80, and 115 gallon units. Units are available with one coil, two coils, or no coils. The heat exchanger coils can be connected to solar collectors. Units without coils can be connected to external brazed plate heat exchangers. All units are available with or without built-in electric backup.

Units with electric backup are provided with a heating element, thermostat, and controls that can heat the tank if solar heat is not available. All units are provided with a removable thermal well to accept a solar control thermostat or thermistor. All electric backup units are provided with a high-quality, low watt density 240 volt AC, 3,500 watt element.

Units are all stainless steel construction.

Features and Benefits Include:



1. Quality Design and Construction

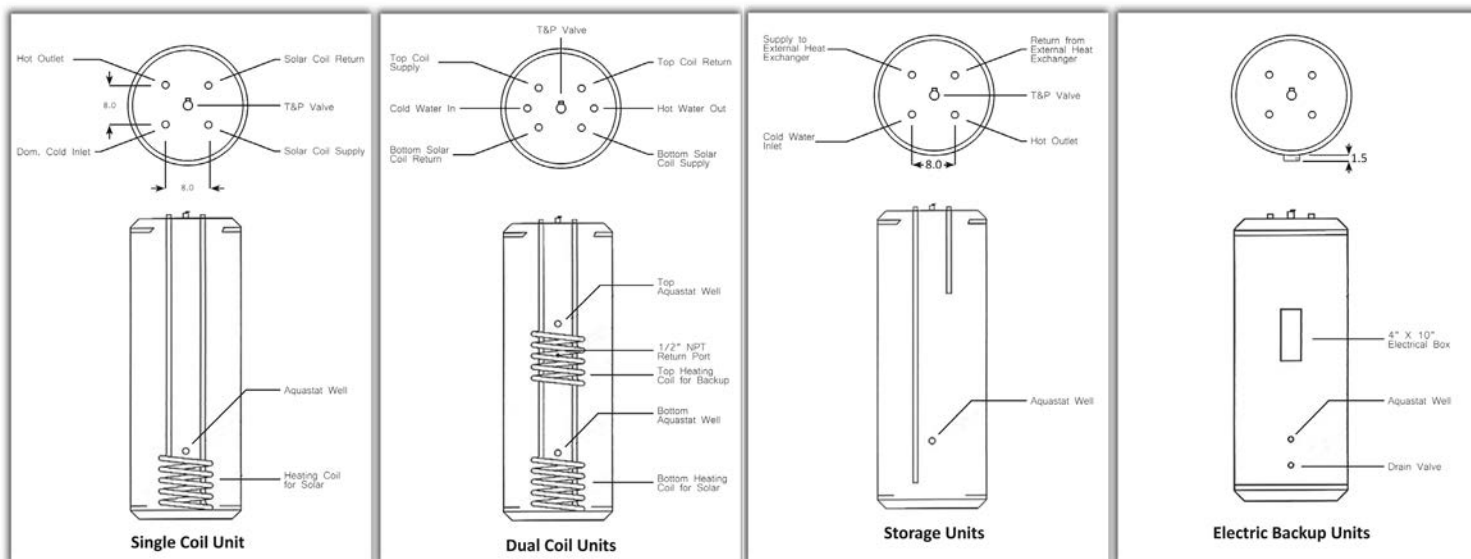
- Tanks and coils are all stainless steel.
- Large, smooth, stainless steel coils; no finned tubing to collect lime and sediment.
- Includes over 2" of insulation (R-12+), less than 1°/hr. heat loss.
- Thermoplastic jacket will not rust, dent, or corrode.

2. Easy Installation

- All pipe connections are on top for a neat, clean installation.
- Brass drain and relief valves are factory installed.
- Includes thermostat well to control solar input.
- 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.

Model	Storage Volume (Gal.)	Top Coil Heating Surface (Sq. Ft.)	Bottom Coil Heating Surface (Sq. Ft.)	Dimensions (Inches)		Pipe Connections	Max. Working Pressure (psi)	Approx. Shipping Wt. (Lbs.)
				(Ht.)	(Dia.)			
Single Coil - No Electric Backup								
HF-115	115	---	9.1	74.0	28.0	1" NPT	150	175
HF-80	80	---	8.2	56.0	28.0	1" NPT	150	140
HF-60	60	---	8.6	62.0	23.5	1" NPT	150	125
Single Coil with 3,500 Watt Electric Backup								
HF-115-E	115	---	9.1	74.0	28.0	1" NPT	150	180
HF-80-E	80	---	8.2	56.0	28.0	1" NPT	150	145
HF-60-E	60	---	8.6	62.0	23.5	1" NPT	150	135
Dual Coil - No Electric Backup								
HF-115-D	115	7.4	9.1	74.0	28.0	1" NPT	150	205
HF-80-D	80	7.4	8.2	56.0	28.0	1" NPT	150	175
HF-60-D	60	7.4	8.6	62.0	23.5	1" NPT	150	135
Dual Coil with 3,500 Watt Electric Backup								
HF-115-DE	115	7.4	9.1	74.0	28.0	1" NPT	150	215
HF-80-DE	80	7.4	8.2	56.0	28.0	1" NPT	150	185
HF-60-DE	60	7.4	8.6	62.0	23.5	1" NPT	150	175
Storage Only - No Coil, No Electric Backup								
HF-115-ST	115	---	No Coil Storage Only	74.0	28.0	1" NPT	150	170
HF-80-ST	80	---		56.0	28.0	1" NPT	150	130
HF-60-ST	60	---		62.0	23.5	1" NPT	150	115

r Storage Tanks



Model	Max. Recovery (Gal./ Hr.)	Max. Recovery (Gal./ Hr.)	Water Flow Through Coil	Pressure Drop Through Coil
	Top Coil	Bottom Coil	(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

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

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	22.0
80-Gal. Units	55.9	62.0	15.9	22.0
60-Gal. Units	45.9	52.0	15.9	22.0



Conforms to UL STD 174 and NSF/ ANSI 372
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Application: Chillers/ Heat Pumps/ Low Mass Boilers

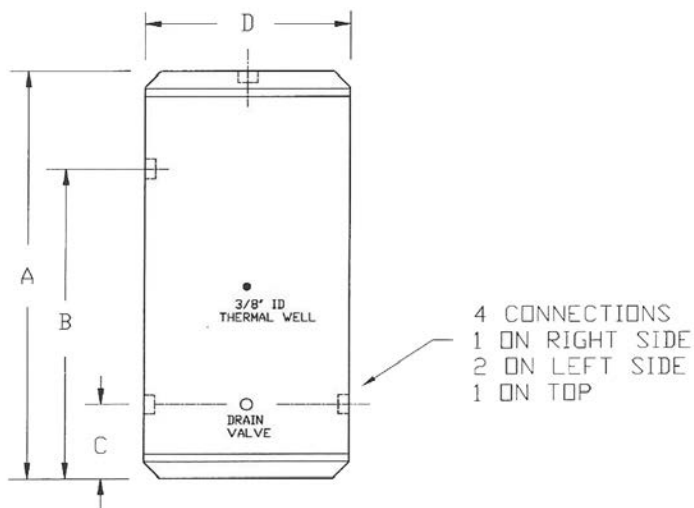
The primary application of a buffer tank is to reduce heat pump, chiller, or boiler short cycling. Hydronic buffer tanks are used in systems operating below the design load condition, which is most of the time, or in systems having several low BTU cooling or heating loads calling at different times. This can cause the chiller or heater to short cycle, resulting in reduced operating efficiency and shorter equipment life.

Specify 1 1/4, 1 1/2, or 2" connections.

The hydronic buffer tanks are built with 4 connections. Two connections can be piped to the chiller or boiler, and two connections can be piped to the distribution system. If piped correctly, the tank can serve as both a thermal buffer and a hydraulic separator. The chiller or boiler can be hydraulically decoupled from the distribution system. The tanks are all stainless steel construction with R-12 insulation and an ABS jacket. Buffer tanks are available in 22, 40, 60, 80, and 115 gallon capacities.

Dimensions and Capacities

	Storage Volume	Dimensions (Inches)				Piping Connections	Max. Tank Working Pressure	Approx. Shipping Wt.
Model	(Gal.)	A. (Ht.)	B.	C.	D. (Dia.)	(NPT)	(psi)	(Lbs.)
HF-40-BT-114	40	42.0	31.0	11.0	23.5	1-1/4"	60	87
HF-40-BT-112	40	42.0	31.0	11.0	23.5	1-1/2"	60	87
HF-40-BT-2	40	42.0	31.0	11.0	23.5	2"	60	87
HF-60-BT-114	60	44.0	31.5	11.5	28.0	1-1/4"	60	115
HF-60-BT-112	60	44.0	31.5	11.5	28.0	1-1/2"	60	115
HF-60-BT-2	60	44.0	31.5	11.5	28.0	2"	60	115
HF-80-BT-114	80	54.0	40.5	11.5	28.0	1-1/4"	60	125
HF-80-BT-112	80	54.0	40.5	11.5	28.0	1-1/2"	60	125
HF-80-BT-2	80	54.0	40.5	11.5	28.0	2"	60	125
HF-115-BT-114	115	72.0	61.5	11.5	28.0	1-1/4"	60	160
HF-115-BT-112	115	72.0	61.5	11.5	28.0	1-1/2"	60	160
HF-115-BT-2	115	72.0	61.5	11.5	28.0	2"	60	160



uffer Tanks



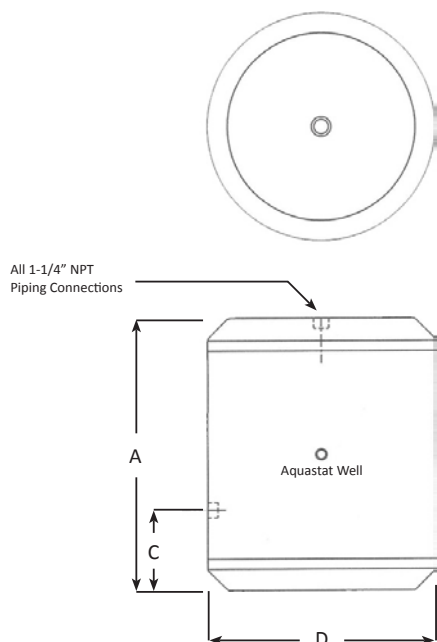
HF-22-BT

The primary application for the HF-22-BT is to reduce low-mass modulating, condensing boiler short cycling. The high and low left side connections are use for boiler supply and return. The top connection is used to supply the distribution system and the low right connection is the return from the distribution system. If the top connection is piped to the line supplying the air purger and vent, the tank will be self-venting.

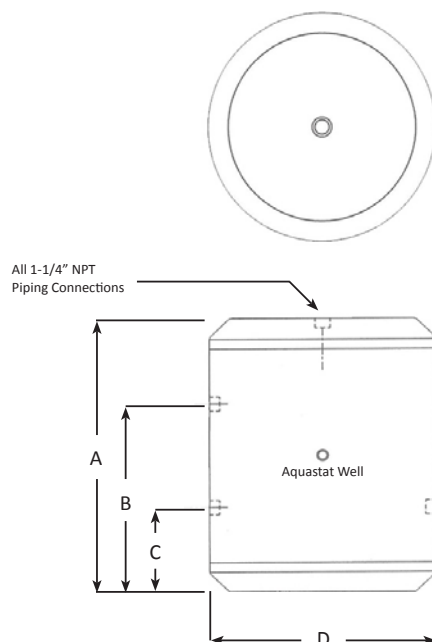
The tank is all stainless steel construction with R-12 insulation and an ABS plastic jacket.

Dimensions and Capacities

	Storage Volume	Dimensions (Inches)				Piping Connections	Max. Tank Working Pressure	Approx. Shipping Wt.
Model	(Gal.)	A. (Ht.)	B.	C.	D. (Dia.)	(NPT)	(psi)	(Lbs.)
HF-22-BT-2	22	24.5	--	8.0	22.5	1-1/4"	60	35
HF-22-BT-4	22	24.5	15.0	8.0	22.5	1-1/4"	60	35



HF-22-BT-2



HF-22-BT-4



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Providing Solutions through Superior Design.

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