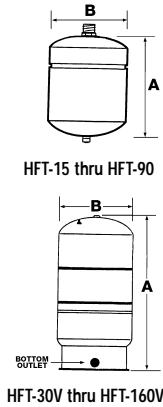


# Diaphragm Tanks • Expansion Tanks



Bell & Gossett HFT expansion tanks are designed to absorb the force of thermal expansion in hydronic heating systems. Series HFT tanks for hydronic heating systems are available in sizes from 2—86 gallons.



## HFT Tanks for Hydronic Heating Tanks

Model Number	Part Number	Volume Gallons (Liters)		Height (A) Inches (mm)	Diameter (B) Inches (mm)	System Connection	Approx. Shpg. Wt. lbs. (Kg)
		Tank	Acceptance				
HFT-15	1BN201	2 (7.5)	1.0 (3.7)	12-5/8 (321)	8 (203)	1/2" NPTM	5 (2.3)
HFT-30	1BN202	4.4 (16.6)	2.5 (9.4)	15-1/2 (394)	11 (279)		9 (4.1)
HFT-60	1BN203	7.6 (28.7)	2.5 (9.4)	23 (584)	11 (279)		14 (6.4)
HFT-90	1BN204	14 (53)	11.3 (42.8)	21 (533)	15-3/8 (390)	1" NPTF	23 (10.4)
HFT-30V	1BN205	14 (53)	11.3 (42.8)	24-3/4 (629)	15-3/8 (390)		25 (11.3)
HFT-40V	1BN206	20 (75.7)	11.3 (42.8)	32-1/2 (826)	15-5/8 (390)		33 (14.9)
HFT-60V	1BN207	32 (121.1)	11.3 (42.8)	47-1/2 (1207)	15-5/8 (390)	1-1/4" NPTF	43 (19.5)
HFT-90V	1BN208	44 (166.5)	34 (128.7)	36 (914)	22 (559)		69 (31.2)
HFT-110V	1BN209	62 (234.6)	34 (128.7)	46-3/4 (1186)	22 (559)		92 (41.7)
HFT-160V	1BN210	86 (325.5)	46 (174.1)	47-1/4 (1199)	22 (559)	123 (55.8)	

Materials: Steel Shell Diaphragm  
 System Connection: Steel  
 Maximum Operating Temperature= 240°F (116°C); Maximum Working Pressure= 100 PSI (689 kPa);  
 Standard Factory Precharge= 12 PSI (83 kPa)



Boiler Size	Type of Radiation			
	Finned Tube Baseboard or Radiant Panel	Convectors or Unit Heaters	Radiators Cast Iron	Baseboard Cast Iron
Net Output	Use Tank Model			
BTU/HR	HFT-15	HFT-15	HFT-15	HFT-15
25,000	HFT-15	HFT-15	HFT-30	HFT-30
50,000	HFT-30	HFT-30	HFT-30	HFT-60
75,000	HFT-30	HFT-60	HFT-60	HFT-60
100,000	HFT-30	HFT-60	HFT-60	HFT-90
125,000	HFT-30	HFT-60	HFT-90	HFT-90
150,000	HFT-60	HFT-60	HFT-30V	HFT-30V
200,000	HFT-30	HFT-90	HFT-30V	HFT-40V
250,000	HFT-90	HFT-30V	HFT-30V	HFT-40V
300,000	HFT-30V	HFT-30V	HFT-40V	HFT-60V
350,000	HFT-30V	HFT-40V	HFT-40V	HFT-60V
400,000	HFT-30V	HFT-40V	HFT-40V	HFT-60V

Assumptions: fill pressure 12 PSI, relief pressure 30 PSI, avg. system temp. 200 °F, system fluid is water, consult factory with requirements not shown

## Compression Tanks

Air-tight, ASME constructed. Available in painted steel. Sizes 15 to 505 gallons.

Gauge glass tappings are standard. Always use with B&G Airtrol Tank Fittings.



### Dimensions & Weights

Model No.	Part No.	Capacity Gallons	Required Airtrol Fitting	Tank Dia. Inches	Tank Length Inches	Approx. Shpg. Wt. (Lbs)
15	116029	15	ATF-12	12	33	50
24	116030	24			51	72
30	116031	30			48	80
40	116032	40	ATF-16	14	63	104
60	116033	60			72	134
80	116034	80	ATF-20	20	62	160
100	116035	100	ATF-20		78	186
120	116036	120	ATF-24		65	217
135	116037	135	ATFL	24	72	230
175	116038	175			62-1/4	320
220	116039	220			77	370
240	116040	240			84	420
305	116041	305			105-3/4	482
400	116042	400			93	656
505	116840	505			36	116

Dimensions are approximate and subject to change. Consult factory for certified dimensions. Part numbers in table above are for paint steel tanks.

## Airtrol® Tank Fittings

Directs free air to the compression tank. Restricts thermal circulation to boiler. Establishes initial tank air level. Allows compression tank size reduction.



### Dimensions & Weights

Model No.	Part No.	Tank Dia. Inches	Connection (NPT)		Approx. Shpg. Wt. (Lbs)
			Tank	Boiler	
ATF-9	112008	9	1/2" M	3/4" M	2-1/4
ATF-12	112010	12 - 14			2-1/2
ATF-16	112011	16 - 18			2-3/4
ATF-20	112026	20 - 22			
ATF-24	112013	24	1" F	1" F	14
ATFL	112014	>100 gal			