

JOB: UNIT TAG: ENGINEER: CONTRACTOR:	REPRESENTATIVE: ORDER NO. SUBMITTED BY: APPROVED BY:	DATE: DATE: DATE:
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Series "HFT"

Residential/Light Commercial HVAC Diaphragm Expansion Tanks

Not For Potable Water Systems

DESCRIPTION

Series "HFT" diaphragm-type expansion tanks are pre-charged to 12 PSI. The Series "HFT" tank is designed to absorb the force of thermal expansion when heating water and to maintain proper pressurization in a closed hydronic system. The heavy-duty butyl diaphragm separates system water from the air in the tank thereby preventing waterlogging problems.

CONSTRUCTION

Shell: Carbon Steel
 Diaphragm: Heavy Duty Butyl Rubber

PERFORMANCE LIMITATIONS

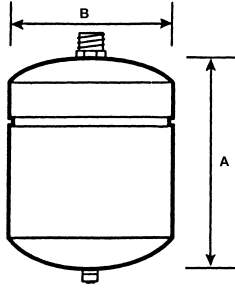
Maximum Design Pressure: 100 PSI (689 kPa)
 Maximum Design Temperature: 240°F (115 °C)

SCHEDULE

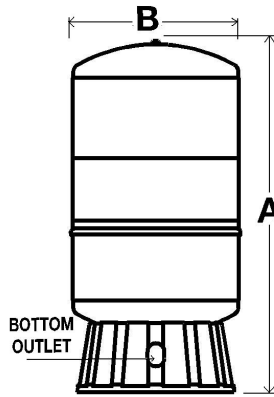
PART NUMBER	MODEL NUMBER	TANK VOLUME GALLONS (LITERS)	ACCEPTANCE VOLUME GALLONS (LITERS)	TAGGING INFORMATION	QUANTITY
1BN326	HFT-15	2 (7.5)	1.0 (3.7)		
1BN327	HFT-30	4.4 (16.6)	2.5 (9.4)		
1BN328	HFT-60	7.6 (28.7)	2.5 (9.4)		
1BN329	HFT-90	14 (53)	11.3 (43)		
1BN330	HFT-30V	14 (53)	11.3 (43)		
1BN331	HFT-40V	20 (76)	11.3 (43)		
1BN332	HFT-60V	32 (121)	11.3 (43)		
1BN333	HFT-90V	44 (165)	34 (129)		
1BN334	HFT-110V	62 (235)	34 (129)		
1BN335	HFT-160V	86 (326)	46 (174)		

DIAPHRAGM EXPANSION TANKS - PRE-PRESSURIZED
DIMENSIONS AND WEIGHTS

A-317C



Models HFT-15
through HFT-90



Models HFT-30V through HFT-160V

DIMENSIONS IN INCHES (MM)

MODEL NO.	A HEIGHT	B DIAMETER	SYSTEM CONNECTION	CHARGING VALVE	APPROX. SHPG. WT. LBS. (KG)
HFT-15	12-5/8 (321)	8 (203)	1/2" NPTM	.305"-32 NC	5 (2.3)
HFT-30	14 (355)	11 (279)	1/2" NPTM	.305"-32 NC	9 (4.1)
HFT-60	17-1/4 (438)	11 (279)	1/2" NPTM	.305"-32 NC	14 (6.4)
HFT-90	21 (533)	15-3/8 (390)	1/2" NPTM	.305"-32 NC	23 (10.4)
HFT-30V	24-3/4 (629)	15-3/8 (390)	1" NPTF	.305"-32 NC	24 (11)
HFT-40V	32-1/2 (826)	15-3/8 (390)	1" NPTF	.305"-32 NC	34 (15.5)
HFT-60V	47-1/2 (1207)	15-3/8 (390)	1" NPTF	.305"-32 NC	52 (23.6)
HFT-90V	36-1/2 (927)	22 (559)	1-1/4" NPTF	.305"-32 NC	64 (29)
HFT-110V	48-1/2 (1232)	22 (559)	1-1/4" NPTF	.305"-32 NC	89 (40.5)
HFT-160V	46 (1168)	26 (660)	1-1/4" NPTF	.305"-32 NC	116 (53)

NOTE: All dimensions are approximate.
Tanks are factory pre-charged at 12 PSI (83 kPa)

TYPICAL SPECIFICATIONS

Furnish and install as shown on plans a _____ gallon (_____ liter), _____" (_____ mm) diameter x _____" (_____ mm) high pre-charged vertical steel expansion tank with integral, heavy duty butyl rubber diaphragm. The tank shall have a _____" NPT system connection, and a .305"-32 charging valve connection (standard tire valve) to facilitate on-site charging of the tank to meet system requirements.

The tank must be designed for a maximum working pressure of 100 PSI (689 kPa) and maximum working temperature of 240°F (115°C).

Each tank shall be ITT Industries – Bell & Gossett Model No. _____

