CITY OF SACRAMENT	\mathbf{O}	Permit No:	9902766
1231 I Street, Sacramento, C.	A 95814	Insp Area:	1
Site Address: 2501 J ST SAC Parcel No: 007-0034-027		Sub-Type: Housing (Y/N)	ACOM o: N
CONTRACTOR CAL AIR	OWNER ST FRANCIS MANOR INC	<u>ARCHITECT</u>	
4061 SEAPORT BL WEST SACRAMENTO CA 95691	2515 J ST SACRAMENTO CA 95816		
Nature of Work: COMMERCIAL I	BOILER CHANGE OUT		
CONSTRUCTION LENDING AGENO of the work for which this permit is issued (Se	CY: I hereby affirm under penalty of perjury that th c. 3097, Civ. C).	ere is a construction lending age	ncy for the performance
Lender's Name_	Lender'sAddress		
(commencing with section 7000) of Division 3	ARATION: 1 hereby affirm under penalty of person of the Business and Professions Code and my licens 3 1/95 Date 5/12/55 Contract	se is in full force and effect.	
	•		
following reason (Sec. 7031.5, Business and I any structure, prior to its issuance, also require of the Contractors License Law (Chapter 9 (c	I hereby affirm under penalty of perjury that I Professions Code; any city or county which requires as the applicant for such permit to file a signed state commencing with Section 7000) of Division 8 of the exemption. Any violation of Section 7031.5 by an (\$500.00);	a permit to construct, alter, impr ment that he or she is licensed pu ne Business and Professions Co	ove, demolish, or repair irsuant to the provisions de) or that he or she is
for sale (Sec. 7044, Business and Professiona thereon, and who does such work himself or l	ployees with wages as their sole compensation, will al Code: The Contractors License Law does not a nerself or through his/her own employees, provided not is sold within one year of completion, the owner-	pply to an owner of property with that such improvements are not	ho builds or improves intended or offered for
I, as owner of the property, am exclusionate. The Contractors License Law does not contractor(s) licensed pursuant to the Contractor.	sively contracting with licensed contractors to cons apply to an owner of property who builds or impro ors License Law).	truct the project (Sec. 7044, Bu wes thereon, and who contracts t	siness and Professions or such projects with a
I am exempt under Sec.	B & PC for this reason:		
Date	Owner Signature		
all measurements and locations shown on the a or private agreement relating to permissible or	ne applicant represents, and the city relies on the repapplication or accompanying drawings and that the iprohibited locations for such improvements. This be agreement relating to location of improvements.	mprovement to be constructed d	oes not violate any law
relating to building construction and herby auti	state that all information is correct. I agree to comporize representative(s) of this city to enter upon the	ply with all city and county ore abovementioned property for ins	linances and state laws pection purposes.
Date 5/12/90	Applicant/Agent Signature Cul	Da	
WORKER'S COMPENSATION DECL I have and will maintain a certificate of performance of work for which the permit is is:	ARATION: I hereby affirm under penalty of perjucconsent to self-insure for workers' compensation as justed.	iry one of the following declarate provided for by Section 3700 of	ions: the Labor Code, forthe
L(2) I have and will maintain workers' compwhich this permit is issued. My workers' comp	pensation insurance, as required by Section 3700 of ensation insurance carrier and policy number are:	the Labor Code, for the perfor	mance of the work for
Carrier LIBERTY MUTUAL	Policy Number WC7-161-02	25870-259 Exp Date	05/01/2000
shall not employ any person in any manner so	the permit is for \$100 or less). I certify that in the perpension is of Section 3700 of the Labor Code, I shall forthwith	n laws of California and agree t	this permit is issued,I hat if I should become
Date 7/16/49	Applicant Signature	Dem	
CRIMINAL PENALTIES AND CIVIL FINE	ER'S COMPENSATION COVERAGE IS UNLAW S UP TO ONE HUNDRED THOUSAND DOLLA ED FOR IN SECTION 3706 OF THE LABOR CODE	ARS (\$100,000) IN ADDITION	TO THE COST OF
THIS PERMIT SHALL EX	XPIRE BY LIMITATION IF WORK IS NOT CO	MMENCED WITHIN 180 DA	VS.

CITY OF SACRAMENTO

BUILDING PERMIT APPLICATION FOR

DEVELOPMENT SERVICES DIVISION

PERMIT SERVICES SECTION

1231 I Street, Rm. 200

PLAN CHECK#

Insp. Area

Applicant MUST complete ALL Unshaded areas

	this page only
ADDRESS 2501 1	Suite
Name Ceth Save Address 906 Sca port	LICENSED CONTRACTOR Lic No. #
ARCHITECT/ENGINEER Name Zip Phone FAX Will the permittee have any employees on the jobsite?	Name Stances Address 250 (ST Zip 95816) Phone 447-1939 FAX
If yes, WORKER'S COMPENSATION POLICY #	
NATURE OF WORK IN DETAIL: Comove for	place Rout FOR Bouler
DBA:	VALUATION: 34.94/
FLOOD STATUS: S.C.A.	T. S.
FLOOD STATUS: S.C.A.	T. TI() REM() SW FIRE ADD OTH
FLOOD STATUS: S.C.A.: JOB DESCRIPTION SHEL APT	Ti() REM() SW FIRE ADD OTH PLUMB LEC SITE FIRE.
FLOOD STATUS: S.C.A. JOB DESCRIPTION SHEL APT INSP. DISCIPLINES BLDG MECH	Ti() REM() SW FIRE ADD OTH SPECIAL STIE FIRE STIE FIRE STIE FIRE SPECIAL SPECIAL STIE FIRE SPECIAL S

CITY OF SACRAMENTO

APPLICATION FOR BUILDING PERMIT Insp. Area DEVELOPMENT SERVICES DIVISION PLAN CHECK #* PERMIT SERVICES SECTION 1231 I Street, Rm. 200 Applicant MUST complete ALL Unshaded areas (916) 264-7619 FAX 264-7046 Sacramento, CA 95814 this page only Suite ADDRESS PARCEL# LICENSED CONTRACTOR Lic No. #_ CONTACT INC 4061 4061 Zip 9569 Sac sac 375-5726 FAX 37(4554 OWNER/ ARCHITECT/ENGINEER Address Address Zip 95866 $_{ m Zip}$ $_{ m }$ Phone Phone FAX → Will the permittee have any employees on the jobsite? ☐ Yes ☐ No EXPIRATION DATE: _____ → If yes, WORKER'S COMPENSATION POLICY # NAME OF INSURANCE COMPANY: Replace Rost FOR Bouler NATURE OF WORK IN DETAIL: _

VALUATION: DBA: S.C.A.T. FLOOD STATUS: APT TI() REM() SW FIRE ADD OTH SHEL JOB DESCRIPTION BLDG MECH) PLUMB INSP. DISCIPLINES Fire Req. Y/N ... Occp Group Const type Use Zone # Stories Ist flrArea. Total Area

REGIONAL SANITATION FEES? Yes No HEALTH DEPARTMENT? Yes No LDGFRM. (REV 05/98)



May 19, 1999

Cal Air 4061 Seaport Boulevard West Sacramento, CA 95691

Special Inspection Final Report ST. FRANCIS RETIREMENT HOME - HVAC EQUIPMENT 2515 J Street Sacramento, California Permit No. 99-02766C WKA No. 4130.35

In accordance with the City of Sacramento special inspection requirements, our firm has performed the Special Testing and Inspection for the subject project. Our observation and test results indicate that the following items are in accordance with Sections 106 and 1701 of the Uniform Building Code and the project's plans and specifications:

Structural

Steel:

Inspected field applied fillet welds assembling wide flange framing for new boiler support. 1/4" x 6" long welds attached W6 top members to W10 bottom members both sides of W6 flange at each crossing point - 16 locations total. Weld profiles meet AWS D1.1 code requirements.

David A. Redford

DAR:mlo

Senior Engineer Construction Materials Service

Last date at jobsite: May 19, 1999

Wallace - Kuhl & Associates, India

418 046 372 2565

City of Sacramento CC:



DIAPHRAGM EXPANSION TANKS

DIAI IIIIAGIII ZALIAITOIOIT IAITTO	
Sizing for Hydronic Heating/Cooling Sys	
Job Name: ST FRAncis Manor	_Date: <u>5-10-99</u>
Job Location <u>2515 J ST.</u>	_Salesman:
Contact Name:	_Model #:
1. Total system water when system is filled any classification of water when system is filled any classification. 3. Average maximum operating temperaturing inspects. 4. Minimum operating pressure. The approv	lans and specifications must be at all times and the sequential street the sequential street the written permission from the tion Division. The sequential sequentia
 Model Selection: 6. Enter total system water content. (from line 1. al. 7. Using the expansion factor table, find and enter expansion factor 8. Multiply line 6 by line 7. Enter expanded water 9. Using acceptance factor table, find and enter the acceptance factor. 10. Divide line 8 by line 9, enter total tank volume relations. Line 8.902 gallons Expanded Water (acceptance) 	the 0.0949 volume. 0.0949 gallons equired. 0.0949 gallons
Line $10.\frac{18.4}{9}$ gallons total tank volume	,

Select diaphragm expansion tank model from chart on Page 8. ISSUED

NTA Models must satisfy both lines 8 and 10 above.

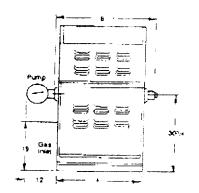
NLA Models are selected by gallons only from line 10.

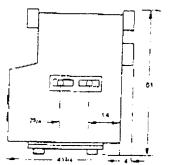
MAY 1 2 1999

NVA Models are selected by gallons only from line 10. CITY OF SACRAMENTO For large systems, multiple tanks can be manifolded together VELOPMENT SERVICES DIV

CAUTION: This chart is for water only. For expansion factors for glycol solutions contact the Wessels factory or your local Wessels dealer.

TELEDYNE LAARS MIGHTY THERM





Volume Water Heaters

_	w	Volume Water Heater (circulating storage tank type
→	PW	Volume Water Heater with built-in pump
	IW I	Instantaneous Water Heater

Submittal Data

SSUED

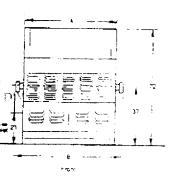
Sizes 500-1825

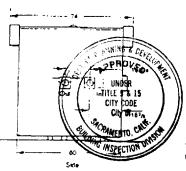
Outdoor

MAY 12 1999

- OTMANA SAGENTO TE DESCRIBISTA MANGELLA

Outdoor Sizes 2200-4500





This set of plans and specifications must kept on the job at all times and it is used to make any changes or alterations from same without written permission from the Building Inspection Division.

The approval of this plan and specificate SHALL NOT be held to permit or approve 1 violation of any City Ordinance or State L4

Standard Equipment

- ASME 160 to, working pressure heat exchanger
- 24V control system
- Operating ças valverproceure regulator
- Manual shut-off valve
- Water flow sensing device
- Removable burner tray (500-1825)
- Glasslined cast iron headers
- · Stainless steet burners
- · Covered control box

- Redundant safety gas valve
- Operating control
- Manual reset high limit
- Automatic roset high fimit (2800-4500)
- · Manual "A" gas valve
- · Manual pilot valve
- · External water side gaskets
- · Flanged connection
- · Built-in draft hood
- Non-combustible base (500-1825)
- High gas pressure switch (2500-4500)
- Constant flame modulation (mode)
- Pressure relict valve (125 PSI)
- 115/230/24V transformer
- Términal strip.
- On/off toggle switch
- 5 amp fuse (2200-4500).
- 2 amp luse (500-1825)
- Power on light

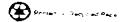
Dimensional	Models	input BTU/H	Output BTU/H	Gas Connec Size (Inc	tion	Water Conn. Size,	Di	mension	s (Inch	۶۶)··-	Shippir
Data	MANNA.	x 1000	x 1000	Natural·	LP.	(Inches)	Α	8	C	ν	Weigh (lbs)•
	500	500	410	1	3/4	2	333/4	393/4			800
	600	60 0	492	1	3/4	2	383/4	443/4			910
	715	7.5	5 86	1	3/4	2	441/4	501/4			995
RECEIVED	850	850	697	1	3/4	2	503/4	563/4	•	,	1030
CIVED		1010	828	1 1/4	1	21/2	58	64		• • • •	1180
	1200	1200	984	1 1/4	1	21/2	661/4	721/4			1330
MAR 2 5 1999	1430	1430	1173	11/4	1 1/4	21/2	76	82			1490
,	1670	1670	1370	1 1/2	1 :/4	21/2	851/2	911/2			1600
	1825	1825	1497	11/2	1 1/4	21/2	921/4	9874			1660
Building Inspection Division	2200 2800	2205	1786	1 1/2 /2	1 1/2	4	651/2	73			2320
Edition 9 morest	3200	2745	2223	1 1/2 /2	1 1/2	4	78	851/2			2600
	3600	3150	2552	2	1:72	4	88	9510			2750
	4000	3645	2952	2/21/2	2	4	1001/2	108			3175
	4500 4500	4050	3281	21/2	2	4	1101/2	118	••		3380
		4500	3645	21/2	2	4	123	130-72			3790

NOTES: 1. Input and output must be deriated 4% per 1000 feet above sea sevel when installed above 2000 feet artitude 2. Dimensions are riominal 3. Sizes 10. 1825 instantaneous water heaters have 2 inch water connections, 4. Consult factory for dimensions of pump mounted units is sizes 2700-4500. 5. Add 55lbs, for output with pumps, 6. When two pas connection sizes are shown, the smaller applies to the standard gas train, while the larger applies to optional hairs, such at *PW//W Models, 500, 15051.0. (4)

Recovery		Required Water Temperature Rise								
Table\$ Sallons Per Hour Sallvered	Size	40°F	50°F	60°F	70°F	80°F	90°F	100°F	120°F	140°F
	500	1230	984	820	703	615	547	492	410	351
	600	1476	1181	984	843	738	656	590	492	422
	715	1758	1406	1172	1005	879	781	703	586	502
	850	2091	1673	1394	1195	1046	929	836	697	597
	1010	2484	1987	1656	1419	1242	1104	994	828	710
	1200	2952	2362	1968	1687	1476	1312	1181	984	843
	1430	3519	2815	2346	2011	1760	1564	1408	1173	1005
	1670	4110	3288	2740	2349	2055	1827	1644	1370	1174
	1825	4491	3593	2994	2566	2246	1996	1796	1497	1283
	2200	5348	4279	3565	3056	2674	2377	2139	1783	1528
	2800	6807	5445	4538	3890	3403	3025	2723	2269	1945
	3200	7779	6223	5186	4445	3890	3457	3112	2593	2223
	3600	8752	7001	5834	5001	4376	3890	3501	2917	2500
	4000	9724	7779	6483	5557	4862	4322	3890	3241	2778
	4500	10939	8752	7293	6251	5470	4862	4376	3646	3126

Minimum	Recommended Minimum	Sizes 500-1825	Sizes 2200-4500
Clearances	Clearance From	(Inches)	(Inches)
from	Тор	****	
Adjacent	Water Connection Side	24	24
Construction	Opposite Side	24	24
	Front	Open	Open
	Rear	24	24
	Vent	****	••••

NOTE: Base for combustible flooring is standard on sizes 500-1825. Sizes 2200-4500 require installation on non-combustible floors. At least 48" clearance should be provided in front of the heater for meintenance accessibility (removal of burners, etc.).





Recovery	Required Water Temperature Rise								·····	
Tabl e s	Size	40° F	50° F	60° F	70° F	80° F	90° F	100°F	120° F	140° F
Gallons Per Hour	500	1215	972	810	695	608	540	486	405	347
Delivered	600	1459	1167	972	833	729	648	583	486	417
	715	1738	1391	1159	993	869	773	695	579	497
	850	2066	1653	1378	1181	1033	918	827	689	590
	1010	2455	1964	1637	1403	1228	1091	982	818	702
	1200	2917	2334	1945	1667	1459	1297	1167	972	833
	1430	3476	2781	2318	1986	1739	1545	1391	1159	993
	1670	4060	3248	2706	2320	2030	1804	1624	1353	1160
	1825	4437	3549	2958	2535	2218	1972	1775	1479	1268
	2000	4920	3936	3280	2811	2460	2187	1968	1640	1406
	2450	6027	4822	4018	3444	3014	2679	2411	2009	1722
	3050	7503	6002	5002	4287	3752	3335	3001	2501	2144
	3500	8610	6888	5740	4920	4305	3827	3444	2870	2460
	4050	9963	7970	6642	5692	4982	4428	3985	3321	2847
	4500	11070	8856	7380	6326	5 5 35	4920	4428	3690	3163
	5000	12300	9840	8200	7029	6150	5467	4920	4100	3514

Motor Electrical Data

Factory Provided Pumps - Models PW and IW Heaters Water Category

	Soft		Norr	mai	Hard		
Sizes	Power (HP)	Current (Amps)	Power (HP)	Current (Amps)	Power (HP)	Current (Amps)	
500-1010	1/4	5.8	1/3	7.2	3/4	13.9	
1200-1430	1/3	7.2	1/2	7.2	3/4	13.9	
1670-1825	3/4	13.9	3/4	13,9	3/4	13.9	

Minimum Clearances Irom Adjacent Construction

Recommended Minimum Clearance From	Sizes 500-1825 (Inches)	Sizes 2000-5000 (Inches)
Тор	30	24
Water Connection Side	12	24
Opposite Side	6	24
Front	Alcove	48
Rear	8	24
Vent	6	6

NOTE: Sizes 500 to 1825 may be installed on combustiols floors. Sizes 2000 to 5000 regulie installation on non-combustible floors. At least 48" clearance anough be provided in front of the heater for maintenance accessibility (removal of burners, etc.).

PBYE

TELEDYNE LAARS

6000 Condor Drive, Moorpark, CA 93021 + 805.529.2000 FAX 805.529.5934 20 Industrial Way. Rochester, NH 03867 + 603.335.6300 FAX 603.335.3356 480 S. Service Road West, Dakville, Ontario, Canada L6K 2H4 + 905.844.8233 FAX 905.844.2635

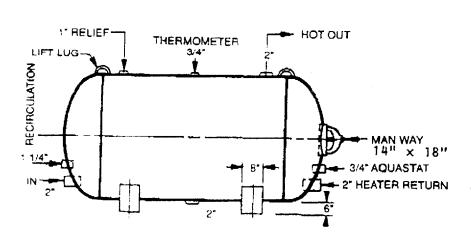


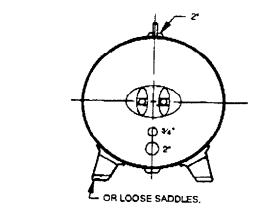


STANDARD HOT WATER STORAGE TANKS HORIZONTAL

125# A.S.M.E. CODE

LINED WITH: EPOXY (Max. 200°F) GLASS (Max. 200°F) CEMENT (Max. 212°F)







(see page 7 for other dimensions)

SPECIFICATIONS AND DELIVERED* PRICES HORIZONTAL EPOXY LINED 125# A.S.M.E. WATER STORAGE TANKS

PART NUMBER	VOLUME IN GALS.	AREA SQ. FT.	WEIGHT	SIZE OVERALL DIA. X HEADS
ES-30-140-H	140	37	445	30 X 51
ES-30-235-H	235	54	598	30 X 84
ES-30-270-H	270	65	653	30 X 94
ES-38-305-H	305	66	666	36 X 77
ES-36-400-H	400	84	807	36 X 99
ES-42-520-H	520	95	1027	42 X 96
ES-42-590-H	590	106	1201	42 X 110
ES-42-850-H	650	117	1271	42 X 118
ES-48-700-H	700	112	1233	48 X 101
ES-48-800-H	800	125	1332	48 X 113
ES-48-870-H	870	134	1429	48 X 122
ES-48-1040-H	1040	157	1831	48 X 144
ES-56-1240 H	1240	166	1965	56 X 127
ES-60-1300-H	1300	167	2003	60 X 118
ES-60-1400-H	1400	180	2114	60 X 127
ES-64-1500-H	1500	181	2208	64 X 121
ES-64-1625-H	1625	194	2338	64 X 130
ES-64-1930-H	1930	225	2669	54 X 152
ES-64-2100-H	2100	242	2847	64 X 164
ES-64-2400-H	2400	272	3190	64 X 186

NOTE "E" in Part Number denotes Epoxy lined tank. Use prefix "C" for Comont, "C" for Glass limings.

NOTE: When over 40 GPM circulation flow, order 2.5" or larger connections

Tappings sizes and locations can be changed to your requirements, usually at no extra charge.

IMPORTANT NOTICE

All water tank installations should be protect from galvanic action by use of dielect insulators to prevent dissimilar metal con and electrical current flows in the system. Si these insulators may deteriorate with time, electrical resistance between the tank and exconnection should be monitored every 6 mon See page WT-11 for Hanson's dielectinsulators and instructions.

Roy E. Hanson Jr. Mfg.



A.S.M.E. PRESSURE VESSELS

1924 Compton Avenue 🖶 Los Angeles, California 90011

(213) 747 7514 (213) 747 5363

FAX: (213) 747 7724

Specification EL 0291

Epoxy Lining Specification

Hansons Tanks's standard epoxy lining is an efficient corrosion resistant coating system for pote water storage tanks, providing excellent protection with limited maintenance and good resistance to shipt damage.

It is classified as a polymerized hi-resistant heavy build coating with an amine adduct-type curing ag-It is spray applied over a white-metal blasted surface to SSPC-SP5 in a two-coat application and heat cu in accordance with the manufacturers recommendations.

It is formulated as a tank lining for water, including deionized or distilled water at elevated temperatu as well a brines and petroleum processes. Designed and laboratory confirmed for immersion in deminerali: water at 250 degrees F, it meets the requirements of EPA and USDA qualifying as an indirect additive drinking water and food. The ingredients and finished products meet the requirements of the U.S. Food a Drug Regulations as listed under Title 21 chapter 175.300, and most State and Local ordinances.

Color:

Ivory, light gray

Finish:

Smooth, glossy, hydrophobic

Film Thickness:

> 5 mils

Adhesion:

850 psi

Heat Resistance:

- 400 degrees F

Submerged: - water 250 degrees F, brine 212 degrees F

Pigments.

Titanium dioxide, inert & tinting colors

Solids:

 $74\% \pm 2\%$ by weight: $53\% \pm 2\%$ by volume

Abrasive Resistance:

75.3 milligram loss average, 1000 cycles, Taber CS-17 wheel

1000 gr. Wt. Ivory color

Surface Hardness:

Konig Pendulum Hardness of 113 seconds,

(glass standard = 250 seconds) DIN standard 53157

Thermal Shock:

Unaffected in 5 cycles, -70 degrees F to 212 degrees F

Flexibility:

1/2 inch bend Zuhr Conical Mandrel - 10 mil film

Chemical Resistance

The following list of laboratory tests is an indication of the range of chemical resistance. These tests consi of 1"x 5" mild steel test panels coated to a film thickness of 12 mils. The panels are one half immersed in the solution at noted temperature for a period of (6) months with no effect on the coating.

Alkalies:

50% Sodium Hydroxide

@ 150 F

Demineralized

@ 250 F

50% Magnesium Hydroxide @ 100 F

Sea Water

@ 212 F

25% Sodium Hydroxide

@ 150 F

Misc:

Waters:

50% Sodium Clorate @ 150 F

10% Calcium Hydroxide

@ 150 F

Crude Oil

@ 210 F

Note: The above data was furnished by the coating manufacturer. As with most tank linings, service life will b longer if operating temperatures do not exceed 200 F.

Roy E. Hanson Jr. Mfg.



A.S.M.E. PRESSURE VESSELS

1924 Compton Avenue 🗢 Los Angeles, California 90011

(213) 747 7514 (213) 747 5363 FAX: (213) 747 7724

Specification # Fl 1190

Factory Insulation Specification

(Sprayed-on rigid Polyurethane Foam with Topcoat)

All Hanson water storage tanks are offered with optional spray-on polyurethane foam factory insulation with rigid topcoat. Nominal "R" value is R-16 @ 2" thick. This exceeds ASHRAE requirements.

Hanson factory insulation is a 2 component fluorocarbon blown-spray rigid polyurethane insulation with excellent thermal insulation properties rated class II flame spread per ASTM E-84-77a (tunnel test), and U.L. #723 certification.

Installed Density:

2.1 - 2.3 PCF

Compressive Strength:

28 - 33 psi

Tensile Strength:

38 - 43 psi

R. Value:

7.11 per inch (R-16 = 2.1/4")

Closed Cell Content:

Over 90%

Weight:

2 lbs/cu ft

Max thickness:

4" (R-28)

Topcoat:

2 coats (min. 23 mils D.F.T.)

White acrylic coating

UV Resistance:

Excellent (ASTM D-1499)

Reflective Index:

90%

Stability:

Excellent to 200 degree F (ASTM - 794)

Water Permeability:

Zero after 21 days immersion

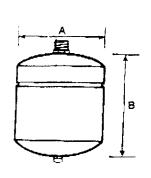
Solids:

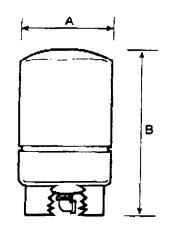
58.7% by volume

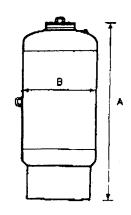
Note: Hanson tank insulation is an effective alternative to metal jacketed tanks at about 70% saving for the same R. Value. Any minor shipping damage can easily be repaired in the field with no effect on performance or durability.

DIAPHRAGM EXPANSION TANKS - PRE-PRESSURIZED

DIMENSIONS AND WEIGHTS







Models PT-5 & PT-12

Models PT-25V through PT-210

Models PT-451 through PT-457

DIMENSIONS IN INCHES (MM)

MODEL NO.	A DIAMETER	B HEIGHT	SYSTEM CONNECTION	CHARGING VALVE	APPROX. SHPG. WT LBS. (KG)	
P1-5	8 (203)	12 ¹ / ₆ (321)	I WALESTEAN I		5 (2.3)	
PT-12	11 (279)	15 (381)	-! =/a" NPTM		9 (4.1)	
PT-25V	15% (390)	197- (489)			23 (10.4)	
PT-30V	15³/e (390)	231/4 (606)	1" NPTF		25 (11.3)	
PT-42V	15% (390)	311/6 (803)	1		33 (15)	
PT-60V	22 (559)	29% (752)			69 (31.3)	
PT-80V	22 (559)	36 (914)	j	0001 00 110	69 (31.3)	
PT-180V	22 (559)	467. (1187)		i 17 NPIF i	.302*-32 NC	92 (41.7)
PT-210V	26 (660)	471/4 (1200)			123 (55.8)	
PT-451	30 (762)	71 (1803)			626 (284)	
PT-452	30 (762)	89 (2261)	1 2"NPIF	2", NPTF	760 (344.7)	
PT-453	36 (914)	821/2 (2086)			810 (367.4)	
PT-454	36 (914)	941/. (2400)	1		914 (414.6)	
PT-455	36 (914)	1067/(2715)	3" NPTF		1018 (461.8)	
PT-456	48 (1219)	781/4 (2003)			1655 (750.7)	
PT-457	48 (1219)	927 (2356)]		1925 (873.1)	

TYPICAL SPECIFICATIONS

Furnish and install as shown on plans a gallo	'n
liter). " (mm) diameter x	•
mm, high pre-charged vertical steel expansion tan	١k
with integral heavy duty butyl blend diaphragm and	
ined dome, FDA approved for domestic potable water. Th	
tank shall have a " NPT system connection, and	a
3021 32 charging valve connection (standard tire valve) t	Ö

facilitate on-site charging of the tank to meet system requirements. The air and water connections are brazed (silver solder) to tank. The tank must be designed for a maximum working pressure of 150 PSI (1035 kPa) and maximum working temperature of _______°F (______°C).

Each tank shall be ITT Bell & Gossett Model No. ____

For further information, contact ITT Bell & Gossett, 8200 N. Austin Avenue, Morton Grove, IL 60053 Phone (847) 966-3700 — Facsimile (847) 966-9052 — http://ths.ittind.com



