

## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# Series ET-RA

## ASME

## Pressurized Expansion Tanks for Heating and Cooling Systems

### Models ET-RA 35 to ET-RA 2000

Watts Model ET-RA Tanks are ASME removable bladder type pre-charged expansion tanks. They are designed to absorb the expansion forces and control the pressure in heating and cooling systems. The water is contained in the heavy duty bladder preventing tank corrosion and waterlogging problems. ET-RA expansion tanks reduce tank sizes up to 80%.

### Features

- Bladder Integrity Monitor
- ASME Section VIII Code Construction
- Removable Butyl Bladder
- Precharged to 12psi (Field Adjustable)

### Construction

Shell: Carbon steel

Bladder: Heavy duty butyl

Prime Painted Exterior

### Pressure - Temperature

Maximum Design Pressure: 125psig\* (8.5 bar) Maximum Design Temperature: 240°F (115°C) Precharged to 12psi (83 kPa)

\*200 &amp; 250psig available.

### Specifications

Furnish and install as shown on plans a Watts Model ETRA \_\_\_\_\_ gallon \_\_\_\_\_ " diameter x \_\_\_\_\_" (high) pre-charged steel expansion tank with a heavy duty butyl rubber bladder and Bladder Integrity Monitor. The tank shall have NPT system connections and a .302" - 32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements. The tank must be constructed in accordance with Section VIII of the ASME Boiler and Pressure Vessel Code.



### Schedule

MODEL NUMBER	TANK	TAGGING INFORMATION	QUANTITY
	VOLUME		
	GALLONS		
ET-RA 35	10		
ET-RA 50	13		
ET-RA 85	23		
ET-RA 130	35		
ET-RA 200	53		
ET-RA 300	79		
ET-RA 400	106		
ET-RA 500	132		
ET-RA 600	158		
ET-RA 800	211		
ET-RA-1000	264		
ET-RA-1200	317		
ET-RA-1400	370		
ET-RA-1600	422		
ET-RA-2000	528		

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

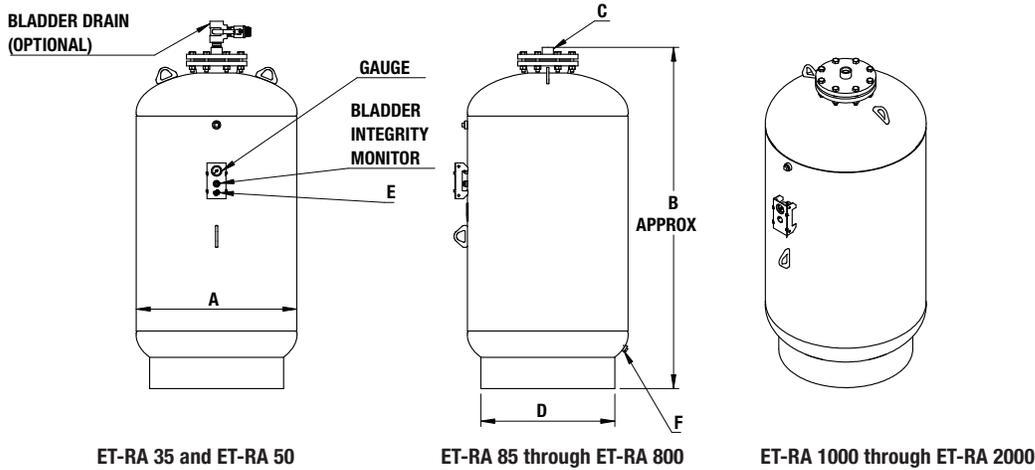
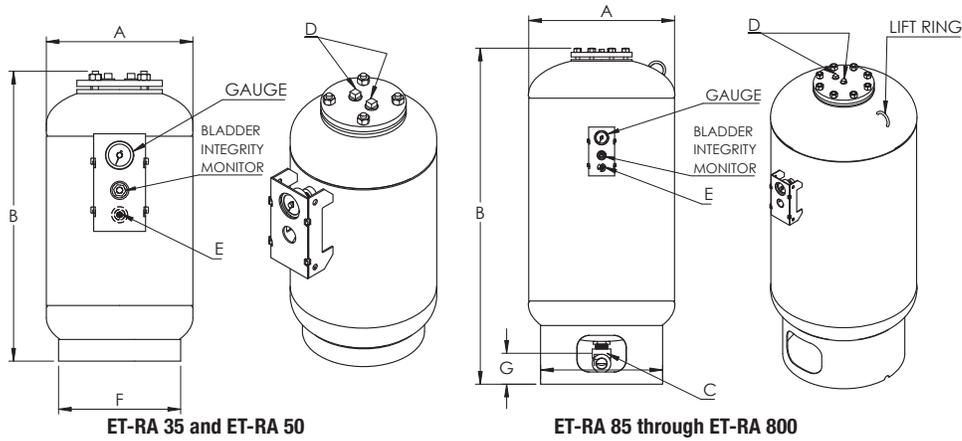
### NOTICE

Inquire with governing authorities for local installation requirements

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



# ASME EXPANSION TANKS - Pressurized



## Dimensions - Weight

Model Number	DIMENSIONS												Weight*	
	A in.	B		C		D		E in.	F		G		lbs.	kgs
	in.	mm	in.	mm	in.	mm	in.	in.	in.	mm	in.	mm		
ET-RA 35	12	24	610	3/4	19	3/4	19	.302"	10	254	-	-	40	18.14
ET-RA 50	14	24	610	3/4	19	3/4	19	-32NC	10	254	-	-	50	22.68
ET-RA 85	16	37	940	1	25	3/4	19	.302" -32NC	12	305	5 1/2	140	90	40.82
ET-RA 130	20	37	940	1	25	3/4	19		16	406	5 1/2	140	125	56.7
ET-RA 200	24	43	1092	1 1/2	38	3/4	19		20	508	5 1/4	133	210	95.25
ET-RA 300	24	55	1397	1 1/2	38	3/4	19		20	508	5 1/4	133	225	102.06
ET-RA 400	30	49	1245	1 1/2	38	3/4	19		24	610	5 1/4	133	300	136
ET-RA 500	30	57	1448	1 1/2	38	3/4	19		24	610	5 1/4	133	335	151.95
ET-RA 600	30	65	1651	1 1/2	38	3/4	19		24	610	5 1/4	133	360	163.29
ET-RA 800	32	76	1930	1 1/2	38	3/4	19		28	711	5 1/4	133	475	215.46
ET-RA 1000	36	76	1930	1 1/2	38	-	-	.302" -32NC	30	762	-	-	552	250.38
ET-RA 1200	36	88	2235	1 1/2	38	-	-		30	762	-	-	679	307.99
ET-RA 1400	36	100	2540	1 1/2	38	-	-		30	762	-	-	688	312.07
ET-RA 1600	48	74	1880	1 1/2	38	-	-		42	1067	-	-	1046	474.46
ET-RA 2000	48	86	2184	1 1/2	38	-	-		42	1067	-	-	1150	521.63

Note: Tanks are factory pre-charged at 12 psi and field adjustable. (\*approximate)

Note: On models ET-RA 85 thru ET-RA 800 both top and bottom connections (C and D) access the bladder

