

Boiler Expansion Tank Sizing

Boiler		Expansion Tank Calculations				Expansion Tank Selections									
		Plain Steel		Diaphragm		Diaphragm Type			Plain Steel Type						
		Method		Method		Standard			Standard			Optional			
		ASME	Amtrol	ASME	Amtrol	Non ASME Type			Non ASME Type			ASME Type			
Model	Capacity Gallons	Min.Gal.	Min. Gal.	Min. Gal.	Min. Gal.	Gallons	Size	Part #	Gallons	Size	Part #	Gallons	Size	Part #	
AB90	33	7.79	7.72	2.57	2.55				12	12 x 24	28940	15	12 x 33	28943	
AB120	40	9.44	9.36	3.12	3.09				12	12 x 24	28940	15	12 x 33	28943	
AB150	48	11.33	11.23	3.74	3.71				18	12 x 36	28941	15	12 x 33	28943	
AB200	61	14.39	14.27	4.75	4.71				18	12 x 36	28941	24	12 x 51	28944	
AB250	73	17.23	17.08	5.69	5.64				24	12 x 48	28942	24	12 x 51	28944	
AB300	100	23.60	23.40	7.79	7.72				24	12 x 48	28942	24	12 x 51	28944	
CL90	30	7.08	7.02	2.34	2.32				12	12 x 24	28940	15	12 x 33	28943	
CLM120	38	8.97	8.89	2.96	2.93				12	13 x 24	28940	15	12 x 33	28943	
CLM150	47	11.09	11.00	3.66	3.63				18	12 x 36	28941	15	12 x 33	28943	
CLM180	55	12.98	12.87	4.28	4.25				18	12 x 36	28941	15	12 x 33	28943	
CLM210	63	14.87	14.74	4.91	4.86				18	12 x 36	28941	24	12 x 51	28944	
CLM240	71	16.75	16.61	5.53	5.48				24	12 x 48	28942	24	12 x 51	28944	
CLM270	80	18.88	18.72	6.23	6.18				24	12 x 48	28942	24	12 x 51	28944	
CLM300	88	20.77	20.59	6.85	6.80				24	12 x 48	28942	24	12 x 51	28944	
DR250	20	4.72	4.68	1.56	1.54	2	109 Extrol	28958	12	12 x 24	28940	15	12 x 33	28943	
DR350	20	4.72	4.68	1.56	1.54	2	109 Extrol	28958	12	12 x 24	28940	15	12 x 33	28943	
DR450	20	4.72	4.68	1.56	1.54	2	109 Extrol	28958	12	12 x 24	28940	15	12 x 33	28943	
DR650	30	7.08	7.02	2.34	2.32				12	12 x 24	28940	15	12 x 33	28943	
DR850	30	7.08	7.02	2.34	2.32				12	12 x 24	28940	15	12 x 33	28943	
F350	10	2.36	2.34	0.78	0.77	2	109 Extrol	28958	12	12 x 24	28940	15	12 x 33	28943	
F450	12	2.83	2.81	0.93	0.93	2	109 Extrol	28958	12	12 x 24	28940	15	12 x 33	28943	
F650	16	3.78	3.74	1.25	1.24	2	109 Extrol	28958	12	12 x 24	28940	15	12 x 33	28943	
F850	20	4.72	4.68	1.56	1.54	2	109 Extrol	28958	12	12 x 24	28940	15	12 x 33	28943	
K250	108	25.49	25.27	8.41	8.34							30	14 x 48	28945	
K300	127	29.97	29.71	9.89	9.81							40	14 x 63	28946	
K350	146	34.45	34.16	11.37	11.27							40	14 x 63	28946	
K400	160	37.76	37.44	12.46	12.36							40	14 x 63	28946	
K450	179	42.24	41.88	13.94	13.82							60	16 x72	28947	
K500	198	46.72	46.33	15.42	15.29							60	16 x72	28947	
K550	217	51.21	50.77	16.90	16.76							60	16 x72	28947	
K600	232	54.75	54.28	18.07	17.92							60	16 x72	28947	
K650	251	59.23	58.73	19.55	19.38							80	20 x 62	SO	
RV200	96	22.65	22.46	7.48	7.41							24	12 x 51	28944	
RV250	111	26.19	25.97	8.64	8.57							30	14 x 48	28945	
RV300	133	31.38	31.12	10.36	10.27							40	14 x 63	28946	
RV350	140	33.04	32.76	10.90	10.81							40	14 x 63	28946	
RV400	169	39.88	39.54	13.16	13.05							60	16 x72	28947	
RV450	181	42.71	42.35	14.10	13.98							60	16 x72	28947	
RV500	200	47.19	46.79	15.58	15.44							60	16 x72	28947	
RV550	216	50.97	50.54	16.82	16.68							60	16 x72	28947	
RV600	236	55.69	55.22	18.38	18.22							60	16 x72	28947	
RV700	278	65.60	65.04	21.65	21.47							80	20 x 62	SO	
RV800	309	72.92	72.30	24.06	23.86							80	20 x 62	SO	

Obsolete Models

Calculation Parameters

Average Operating Temperature	200	°F
Initial Fill Temperature	40	°F
Initial Fill Pressure	12	PSIG
Operating Pressure Maximum	22	PSIG

Notice:

Sizings provided above cover the water volume content of the boiler only.