



Hydronic Heating Expansion Tank

SELECTION GUIDE



Product Number	Total Volume in Gallon (liter)	Maximum Accepted Volume in Gallon (liter)	Diameter in inches (liter)	Length in inches (mm)	Connection Size
TK300-15	2.0 (7.6)	1.0 (3.8)	8 (203)	13 (330)	1/2" M
TK300-30	4.4 (16.7)	2.5 (9.5)	11 (279)	15 (381)	1/2" M
TK300-60	6.7 (25.4)	2.7 (10.2)	11 (279)	20 (508)	1/2" M
TK300-90	14 (53.0)	11.3 (42.8)	15 (381)	21 (533)	1/2" M
XPS-030V	14 (53.0)	11.3 (42.8)	15 (381)	24 (610)	1" F
XPS-040V	20 (75.7)	11.3 (42.8)	15 (381)	32 (813)	1" F
XPS-060V	32 (121.1)	11.3 (42.8)	15 (381)	48 (1219)	1" F
XPS-090V	44 (166.6)	34 (128.7)	22 (559)	36 (914)	1 1/4" F
XPS-110V	62 (234.7)	34 (128.7)	22 (559)	47 (1194)	1 1/4" F
XPS-160V	86 (325.5)	46 (174.1)	26 (660)	47 (1194)	1 1/4" F

Tank Gallon Acceptance for Volume Expansion (Glycol Adjustment)						
System Volume (gallons)	120F Water	120F Glycol 40%	140F Water	140F Glycol 40%	180F Water	180F Glycol 40%
20	0.2	0.48	0.3	0.64	0.552	0.99
25	0.25	0.6	0.375	0.8	0.69	1.2375
30	0.3	0.72	0.45	0.96	0.828	1.485
35	0.35	0.84	0.525	1.12	0.966	1.7325
40	0.4	0.96	0.6	1.28	1.104	1.98
50	0.5	1.2	0.75	1.6	1.38	2.475
60	0.6	1.44	0.9	1.92	1.65	2.97

TK300 -15

TK300 -30

TK300 -60

TK300 -90

Water Volume and Temperature

Add TOTAL Volume in System

- Boiler Volume
- Mechanical Room Piping
- Supply and Return Tubing
- Heat Emitter Volume

Typical Radiant Max Temperatures

- In-Slab 125F
- Gypcrete 125F
- Staple-Up 140F
- Baseboard 180F
- Radiator 180F



Resideo TK300 Expansion Tank Sizing				
Max System Temp F	System Water Content in Gallons			
	TK300-15	TK300-30	TK300-60	TK300-90
100	125	275	417	876
110	93	205	311	653
120	72	158	239	502
130	58	128	194	407
140	48	105	160	336
150	40	89	134	282
160	34	76	115	241
170	30	65	99	208
180	26	57	87	182
190	23	51	77	161

Water Volume in Gallons Per Foot				
Pipe Size	Copper (Type L)	Copper (Type M)	PEX (SDR-9)	PEX-AL-PEX
3/8"	--	--	0.0053	0.0049
1/2"	0.012	0.0132	0.0096	0.0104
5/8"	--	--	0.0139	0.0166
3/4"	0.0125	0.0269	0.0189	0.0265
1"	0.043	0.0454	0.0303	0.0435
1-1/4"	0.065	0.068	0.0467	--
1-1/2"	0.092	0.095	0.0652	--
2"	0.161	0.165	0.1116	--
2-1/2"	0.247	--	--	--
3"	0.354	--	--	--

Quick Sizing Guides

Resideo TK300 Expansion Tank Sizing				
Boiler	Type of Radiation			
Net BTU Output (Thousands)	Finned Baseboard	Convectors or Unit Heaters	Radiators (Cast Iron)	Baseboard (Cast Iron)
25	TK300-15	TK300-15	TK300-15	TK300-15
50	TK300-15	TK300-15	TK300-30	TK300-30
75	TK300-30	TK300-30	TK300-30	TK300-60
100	TK300-30	TK300-30	TK300-60	TK300-60
125	TK300-30	TK300-60	TK300-60	TK300-90
150	TK300-30	TK300-60	TK300-90	TK300-90
175	TK300-60	TK300-60		
200	TK300-60	TK300-60		
250	TK300-60	TK300-90		
300	TK300-90			

Resideo TK300 Expansion Tank Sizing					
Feet of Tubing	Nominal Pex Tubing Size				
	3/8"	1/2"	5/8"	3/4"	1"
1,000	TK300-15	TK300-15	TK300-15	TK300-15	TK300-15
5,000	TK300-15	TK300-15	TK300-15	TK300-30	TK300-30
7,500	TK300-15	TK300-15	TK300-30	TK300-30	TK300-60
10,000	TK300-15	TK300-30	TK300-30	TK300-60	TK300-60
14,000	TK300-15	TK300-30	TK300-60	TK300-60	TK300-90
18,000	TK300-30	TK300-60	TK300-60	TK300-60	
22,000	TK300-30	TK300-60	TK300-60	TK300-90	
30,000	TK300-30	TK300-60	TK300-90	TK300-90	

resideo.com/pro/water



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