

BLADDER EXPANSION TANK SIZING CALCULATIONS

PROPYLENE GLYCOL

		OPERATING PRESSURE P_2 (psig)												
		40	50	60	70	80	90	100	110	120	130	140	150	
ANTIFREEZE VOLUME V_s (gal)	10													
	20			2-1/2 gallon MODEL 2.5BET-17										
	30													
	40			5 gallon MODEL 5.0BET-17										
	50												40 gallon MODEL 40 BET-17	
	60													
	70													
	80				10 gallon MODEL 10BET-17									80 gallon MODEL 80BET-17
	90								25 gallon MODEL 25BET-17					
	100													
	110													
	120										40 gallon MODEL 40BET-17			
	130													100 gallon MODEL 100BET-17
	140													
	150													

Assumptions: 70% Propylene Glycol $P_{MAX} = 150$ psig $\Delta T = 100^\circ F$ 560 W. Terrace Drive, San Dimas, CA 91773 • E-mail: sales@youngeng.com WBY1-21-2000
1-800-33-SURGE (337-8743) • Tel: (909) 394-3225 Fax: (909) 394-3006



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BLADDER EXPANSION TANK SIZING CALCULATIONS

GLYCERINE

		OPERATING PRESSURE P_2 (psig)												
		40	50	60	70	80	90	100	110	120	130	140	150	
ANTIFREEZE VOLUME V_s (gal)	10													
	20													
	30			2-1/2 gallon MODEL 2.5BET-17										
	40													
	50													
	60													
	70													
	80													
	90													
	100													
	110													
	120													
	130													
	140													
	150													

Assumptions: 70% Glycerine
 $P_{MAX} = 150$ psig
 $\Delta T = 100^\circ F$

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PROPYLENE GLYCOL

ANTIFREEZE VOLUME V (gal)	OPERATING PRESSURE P_2 (psig)										
	40	50	60	70	80	90	100	110	120	130	140
	1										
5			1.0 gallon MODEL 1.0BET-17								
10											
15											
20											

See Next
Sizing Chart

GLYCERINE

ANTIFREEZE VOLUME V (gal)	OPERATING PRESSURE P_2 (psig)										
	40	50	60	70	80	90	100	110	120	130	140
	1										
5			1.0 gallon MODEL 1.0BET-17								
10											
15											
20											

See Next
Sizing Chart

Assumptions: 70% Anti - Freeze
 $P_{MAX} = 150$ psig
 $\Delta T = 100^\circ F$

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