

Line Set Sizing Chart - LRC Wine Evaporators

All pressure losses (psig) are per 100 feet of the line size specified.
Based on 38 degree saturated suction temperature

04/16/14

LIQUID LINE

		3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
	R134a									
	1000	1.5	0.2							
	1500	3	0.5							
	2000	4.9	0.7	0.2						
	2500	7.3	1.1	0.3						
	3000	10.1	1.5	0.4						
	3500	13.2	2	0.5						
	4000	16.8	2.5	0.7						
	4500	20.7	3	0.8						
	5000		3.7	1	0.3					
	5500		4.3	1.2	0.4					
	6000		5.1	1.4	0.5					
	6500		5.8	1.6	0.6					
	7000		6.6	1.8	0.6					
	7500		7.5	2.1	0.7					
BTUH Evap.	8000		8.4	2.3	0.8					
Capacity	8500		9.4	2.6	0.9					
	9000		10.4	2.9	1					
	9500		11.5	3.1	1.1					
	10000		12.6	3.4	1.2					
	10500			3.8	1.3	0.3				
	11000			4.1	1.4	0.3				
	11500			4.4	1.5	0.3				
	12000			4.8	1.6	0.3				
	12500			5.1	1.7	0.4				
	13000			5.5	1.9	0.4				
	13500			5.9	2	0.4				
	14000			6.2	2.1	0.5				
	14500			6.7	2.3	0.5				
	15000			7.1	2.4	0.5				
	15500			7.5	2.6	0.5				
	16000			8	2.7	0.6				
	16500			8.4	2.9	0.6				
	17000			8.9	3	0.6				
	17500			9.4	3.2	0.7				
	18000			9.9	3.3	0.7				
	18500				3.5	0.7	0.2			
	19000				3.7	0.8	0.2			
	19500				3.9	0.8	0.3			
	20000				4	0.8	0.3			

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		SUCTION								
		1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1 1/8"	1 3/8"
	R134a									
	1000		2.2	0.8	0.2					
	1500			1.6	0.3	0.1				
	2000			2.6	0.6	0.2				
	2500			4	0.8	0.3				
	3000			5.5	1.1	0.4				
	3500				1.5	0.5	0.2			
	4000				1.9	0.6	0.2			
	4500				2.4	0.8	0.3			
	5000				2.9	0.9	0.4			
	5500				3.4	1.1	0.4			
	6000				4	1.3	0.5			
	6500					1.5	0.6	0.3		
	7000					1.7	0.7	0.3		
	7500					1.9	0.8	0.3		
	8000					2.2	0.8	0.4		
BTUH Evap.	8500					2.4	0.9	0.4		
Capacity	9000					2.7	1.1	0.5		
	9500					2.9	1.2	0.5		
	10000					3.2	1.3	0.5		
	10500						1.4	0.6	0.2	
	11000						1.5	0.7	0.2	
	11500						1.6	0.7	0.2	
	12000						1.8	0.8	0.2	
	12500						1.9	0.8	0.2	
	13000						2.1	0.9	0.2	
	13500						2.2	0.9	0.3	
	14000						2.4	1	0.3	
	14500						2.5	1.1	0.3	
	15000						2.7	1.2	0.3	
	15500						2.8	1.2	0.3	
	16000						3	1.3	0.4	
	16500						3.2	1.4	0.4	
	17000							1.4	0.4	0.1
	17500							1.5	0.4	0.2
	18000							1.6	0.4	0.2
	18500							1.7	0.5	0.2
	19000							1.8	0.5	0.2
	19500							1.9	0.5	0.2
	20000							2	0.5	0.2

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LIQUID

		3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1 1/8"
	R22									
	1000	1.2	0.2							
	1500	2.5	0.4							
	2000	4.1	0.6							
	2500	6.1	0.9	0.3						
	3000	8.4	1.3	0.3						
	3500	11.1	1.6	0.5						
	4000	14.1	2.1	0.6						
	4500	17.4	2.5	0.7						
	5000	21	3.1	0.8						
	5500	24.9	3.6	1						
	6000	29.1	4.2	1.2						
	6500		4.9	1.3	0.5					
	7000		5.6	1.5	0.5					
	7500		6.3	1.7	0.6					
	8000		7.1	1.9	0.7					
BTUH Evap.	8500		7.9	2.2	0.7					
Capacity	9000		8.7	2.4	0.8					
	9500		9.6	2.6	0.9					
	10000		10.6	2.9	1					
	10500		11.5	3.2	1.1					
	11000		12.5	3.4	1.2					
	11500		13.6	3.7	1.3					
	12000		14.7	4	1.4					
	12500		15.8	4.3	1.5					
	13000		17	4.6	1.6					
	13500			4.9	1.7	0.4				
	14000			5.3	1.8	0.4				
	14500			5.6	1.9	0.4				
	15000			6	2	0.4				
	15500			6.3	2.1	0.1				
	16000			6.7	2.3	0.5				
	16500			7.1	2.4	0.5				
	17000			7.5	2.5	0.5				
	17500			7.9	2.7	0.6				
	18000			8.3	2.8	0.6				
	18500			8.7	2.9	0.6				
	19000			9.2	3.1	0.7				
	19500			9.6	3.2	0.7				
	20000			10.1	3.4	0.7				

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		SUCTION								
		3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1 1/8"
	R22									
	1000		4.9	1.3	0.5					
	1500			2.7	0.9	0.2				
	2000			4.6	1.6	0.3				
	2500				2.3	0.5	0.2			
	3000				3.2	0.7	0.2			
	3500				4.3	0.9	0.3			
	4000				5.5	1.1	0.4			
	4500				6.8	1.4	0.4			
	5000				8.3	1.7	0.5			
	5500				9.9	2	0.6			
	6000					2.4	0.8	0.3		
	6500					2.8	9	0.3		
	7000					3.2	1	0.4		
	7500					3.6	1.1	0.4		
	8000					4	1.3	0.5		
BTUH Evap.	8500					4.5	1.4	0.6		
Capacity	9000					5	1.6	0.6		
	9500					5.5	1.7	0.7		
	10000					6.1	1.9	0.8		
	10500					6.7	2.1	0.8		
	11000						2.3	0.9	0.4	
	11500						2.5	1	0.4	
	12000						2.7	1	0.5	
	12500						2.9	1.1	0.5	
	13000						3.1	1.2	0.5	
	13500						3.3	1.3	0.6	
	14000						3.5	1.4	0.6	
	14500						3.8	1.5	0.6	
	15000						4	1.6	0.7	
	15500						4.3	1.7	0.7	
	16000						4.5	1.8	0.8	
	16500						4.8	1.9	0.8	
	17000						5.1	2	0.9	
	17500						5.4	2.1	0.9	
	18000							2.2	0.9	0.3
	18500							2.3	1	0.3
	19000							2.4	1	0.3
	19500							2.6	1.1	0.3
	20000							2.7	1.1	0.3

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LIQUID

		3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1 1/8"
	R404a									
	1000	2.7	0.4							
	1500	5.5	0.8							
	2000	9.2	1.4	0.4						
	2500	13.8	2	0.6						
	3000	1.2	2.8	0.8						
	3500	25.3	3.7	1						
	4000	32.3	4.6	1.3						
	4500	5.7	1.6	0.5						
	5000		6.9	1.9	0.6					
	5500		8.2	2.3	0.8					
	6000		9.7	2.6	0.9					
	6500		11.2	3	1					
	7000		12.8	3.5	1.2					
	7500		14.5	3.9	1.3					
	8000		16.3	4.4	1.5					
BTUH Evap.	8500		18.2	4.9	1.7					
Capacity	9000		20.2	5.5	1.8					
	9500			6	2	0.4				
	10000			6.6	2.2	0.5				
	10500			7.2	2.4	0.5				
	11000			7.9	2.6	0.6				
	11500			8.5	2.9	0.6				
	12000			9.2	3.1	0.6				
	12500			9.9	3.3	0.7				
	13000			10.7	3.6	0.7				
	13500			11.4	3.8	0.8				
	14000			12.2	4.1	0.9				
	14500			13	4.4	0.9				
	15000			13.9	4.6	1				
	15500			14.7	4.9	1				
	16000			15.6	5.2	1.1				
	16500			16.5	5.5	1.1				
	17000				5.8	1.2	0.4			
	17500				6.1	1.3	0.4			
	18000				6.5	1.3	0.4			
	18500				6.8	1.4	0.4			
	19000				7.1	1.5	0.5			
	19500				7.5	1.6	0.5			
	20000				7.8	1.6	0.5			

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		SUCTION								
	R404a	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1 1/8"
	1000		7	1.9	0.6					
	1500			4	1.3	0.3				
	2000			6.7	2.2	0.5				
	2500				3.4	0.7	0.2			
	3000				4.7	1	0.3			
	3500				6.3	1.3	0.4			
	4000				8	1.6	0.5			
	4500				10	2	0.6			
	5000				12.1	2.5	0.8			
	5500					2.9	0.9	0.4		
	6000					3.5	1.1	0.4		
	6500					4	1.3	0.5		
	7000					4.6	1.4	0.6		
	7500					5.2	1.6	0.6		
	8000					5.9	1.9	0.7		
BTUH Evap.	8500					6.6	2.1	0.8		
Capacity	9000					7.3	2.3	0.9		
	9500						2.5	1	0.4	
	10000						2.8	1.1	0.5	
	10500						3	1.2	0.5	
	11000						3.3	1.3	0.6	
	11500						3.6	1.4	0.6	
	12000						3.9	1.5	0.7	
	12500						4.2	1.6	0.7	
	13000						4.5	1.8	0.8	
	13500						4.9	1.9	0.8	
	14000						5.2	2	0.9	
	14500						5.5	2.2	0.9	
	15000						5.9	2.3	1	
	15500						6.3	2.4	1	
	16000							2.6	1.1	0.3
	16500							2.7	1.2	0.3
	17000							2.9	1.2	0.3
	17500							3.1	1.3	0.4
	18000							3.2	1.4	0.4
	18500							3.4	1.4	0.4
	19000							3.6	1.5	0.4
	19500							3.8	1.6	0.4
	20000							3.9	1.7	0.5