

# MILK COOLER

## Dimensions and Capacities



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**MUELLER**  
DAIRY FARM EQUIPMENT

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# Section 1.0 – Evaporator and Refrigeration Unit Capacities

## 1.1 Milk Cooler Evaporator Cooling Instructions — R-507 (Reference Charts 1.2 and 1.3)

1. Compare the horsepower ratings for the units that you have chosen to evaporator capacities on the chart in Section 1.2 to ensure that you do not exceed the capacities of the milk cooler's evaporator.
2. Calculate your BTU load per milking, and choose refrigeration units accordingly from the chart in Section 1.3.

## 1.2 Milk Cooler Evaporator Cooling Capacity Chart — R-507, 60 Hz Applications

Recommended Maximum Horsepower Capacity for Each Evaporator — R-507, 60 Hz Applications				
Single Unit	Bottom Only			
500S	3.5/5 <sup>3</sup>			
600S	5			
700S	5			
800S	5			
1,000S	5			
1,350S	7.5			
1,600S	7.5			
2,000S	7.5			
Dual Units	Bottom Circuit		Side Circuit	
800D	3.5/5 <sup>3</sup>		3.5/5 <sup>3</sup>	
1,000D	3.5/5 <sup>3</sup>		3.5/5 <sup>3</sup>	
1,350D	5 <sup>1</sup>		3.5/5 <sup>3</sup>	
1,600D	3.5/5 <sup>3</sup>		3.5/5 <sup>3</sup>	
2,000D	5		3.5/5 <sup>3</sup>	
2,000C-D	3.5/5 <sup>3</sup>		3.5/5 <sup>3</sup>	
2,700D	5		5	
Triple Units	Bottom Circuit		Left Side	Right Side
3,000T	5 <sup>0E</sup> /7.5 <sup>0H</sup>		5	5
4,000T <sup>2</sup>	7.5		7.5	7.5
4,000L-T	7.5		7.5	7.5
5,000T <sup>2</sup>	7.5		7.5	7.5
Quad Units	Left Bottom	Right Bottom	Left Side	Right Side
6,000Q <sup>2</sup>	7.5	7.5	7.5	7.5
6,700Q	7.5 <sup>0E</sup> /9 <sup>0H</sup>	7.5 <sup>0E</sup> /9 <sup>0H</sup>	7.5	7.5
7,000Q	7.5	7.5	7.5	7.5
8,000Q	7.5 <sup>0E</sup> /9 <sup>0H</sup>	7.5 <sup>0E</sup> /9 <sup>0H</sup>	7.5	7.5

<sup>1</sup> Coolers manufactured after 1995. Contact Mueller's Dairy Farm Service Department for earlier model capacities.

<sup>2</sup> Coolers manufactured after January 1, 2002. Contact Mueller's Dairy Farm Service Department for earlier model capacities.

<sup>3</sup> 5 HP HiPerForm® EVC units with digital compressor only.

**NOTE:** Table is calculated using condensing unit capacities operating on 60 Hz power supplies at 30°F SST and 100°F CT.

### 1.3 E-Star® Refrigeration Unit(s) Capacity Ratings Chart — R-507 (Current)

E-Star HiPerForm® Refrigeration Units with Electronic Valve Control (EVC) Compressor Btu/h Capacity Ratings Chart							
Size HP	Model No.	Mueller Part No.	Refrigerant	Electrical Characteristics 60 Cycle (Hz)	Compressor Model No.	Btu/Hr <sup>1</sup>	Btu/Hr <sup>2</sup>
Single Phase							
3.5	OHSE-A351E-HFC	8826791	R-507	208-230/60/1	ZB26KCE-PFV-230	41,403	34,100
5 <sup>3</sup>	OHSE-A51ED-HFC	8827484	R-507	208-230/60/1	ZBD38KCE-PFV-250	59,523	48,800
Three Phase							
3.5	OHSE-A353E-HFC	8826792	R-507	208-230/60/3	ZB26KCE-TF5-230	41,192	33,900
3.5	OHSE-A354E-HFC	8826783	R-507	460/60/3	ZB26KCE-TFD-230	41,192	33,900
5 <sup>3</sup>	OHSE-A53ED-HFC	8827406	R-507	208-230/60/3	ZBD38KCE-TF5-250	58,996	48,500
5 <sup>3</sup>	OHSE-A534ED-HFC	8827407	R-507	460/60/3	ZBD38KCE-TFD-250	58,996	48,500
7.5	OHSE-A753E-HFC	8827007	R-507	208-230/60/3	ZB58K5E-TFC-260	91,549	75,300
7.5	OHSE-A754E-HFC	8827008	R-507	460/60/3	ZS58K5E-TFD-260	91,549	75,300
9	OHSE-A93E-HFC	8827010	R-507	208-230/60/3	ZB66K5E-TFC-260	103,664	85,200
9	OHSE-A93E-HFC	8827011	R-507	460/60/3	ZB66K5E-TFD-260	103,664	85,200

E-Star Model "OE" Refrigeration Units with Mechanical Thermal Expansion Valve Compressor Btu/h Capacity Ratings Chart							
Size HP	Model No.	Mueller Part No.	Refrigerant	Electrical Characteristics 60 Cycle (Hz)	Compressor Model No.	Btu/Hr <sup>1</sup>	Btu/Hr <sup>2</sup>
Single Phase							
3.5	OESE-A351-HFC	8825311	R-507	208-230/60/1	ZB26KCE-PFV-250	39,300	32,400
5	OESE-A51-HFC	8825317	R-507	208-230/60/1	ZB38KCE-PFV-250	56,500	46,400
Three Phase							
3.5	OESE-A353-HFC	8825312	R-507	200-230/60/3	ZB26KCE-TF5-250	39,100	32,200
3.5	OESE-A354-HFC	8825313	R-507	460/60/3	ZB26KCE-TFD-250	39,100	32,200
5	OESE-A53-HFC	8825318	R-507	200-230/60/3	ZB38KCE-TF5-250	56,000	46,100
5	OESE-A534-HFC	8825319	R-507	460/60/3	ZB38KCE-TFD-250	56,000	46,100
7.5	OESE-A753-HFC	8827001	R-507	208-230/60/3	ZB58K5E-TFC-260	86,900	71,500
7.5	OESE-A754-HFC	8827002	R-507	460/60/3	ZB58K5E-TFD-260	86,900	71,500
9	OESE-A93-HFC	8827003	R-507	208-230/60/3	ZB66K5E-TFC-260	98,400	80,900
9	OESE-A94-HFC	8827004	R-507	460/60/3	ZB66K5E-TFD-260	98,400	80,900

<sup>1</sup> Based on compressor manufacturer's data at 30°F SST and 100°F CT. Actual Btu/h output and energy usage may vary depending on field conditions. These capacities should be used when matching refrigeration units to milk cooler evaporators.

<sup>2</sup> Based on compressor manufacturer's data at 20°F SST and 100°F CT. Actual Btu/h output and energy usage may vary depending on field conditions. These capacities should be used when matching refrigeration units to chiller evaporators.

<sup>3</sup> HiPerForm EVC condensing unit with digital scroll compressor.

## 1.4 E-Star® Refrigeration Unit(s) Capacity Ratings Chart — R-507 (Discontinued)

E-Star Refrigeration Units Compressor Btu/h Capacity Ratings Chart						
Size HP	Model No.	Mueller Part No.	Refrigerant	Electrical Characteristics 60 Cycle (Hz)	Compressor Model No.	Btu/Hr <sup>1</sup>
Single Phase						
3.5	OHSE-A351-HFC	8825314	R-507	208-230/60/1	ZB26KCE-PFV-250	40,872
5	OHSE-A51-HFC	8825320	R-507	208-230/60/1	ZB38KCE-PFV-250	58,760
Three Phase						
3.5	OHSE-A353-HFC	8825315	R-507	200-230/60/3	ZB26KCE-TF5-250	40,664
3.5	OHSE-A354-HFC	8825316	R-507	460/60/3	ZB26KCE-TFD-250	40,664
5	OHSE-A53-HFC	8825321	R-507	200-230/60/3	ZB38KCE-TF5-250	58,240
5	OHSE-A534-HFC	8825322	R-507	460/60/3	ZB38KCE-TFD-250	58,240
7.5	OESE-A753-HFC	8825323	R-507	208-230/60/3	ZB56KCE-TWC-551	81,000
7.5	OHSE-A753-HFC	8825325	R-507	208-230/60/3	ZB56KCE-TWC-551	84,240
7.5	OESE-A7534-HFC	8825324	R-507	460/60/3	ZS56K4E-TWD-551	80,000
7.5	OHSE-A7534-HFC	8825326	R-507	460/60/3	ZS56K4E-TWD-551	83,200
10	OESE-A103-HFC	8825327	R-507	208-230/60/3	ZB75KCE-TWC-551	112,000
10	OESE-A1034-HFC	8825328	R-507	460/60/3	ZS75K4E-TWD-551	112,000

E-Star HiPerForm Refrigeration Units with Electronic Valve Control (EVC) Compressor Btu/h Capacity Ratings Chart						
Size HP	Model No.	Mueller Part No.	Refrigerant	Electrical Characteristics 60 Cycle (Hz)	Compressor Model No.	Btu/Hr
Three Phase						
7.5	OHSE-A753E-HFC	8826796	R-507	208-230/60/3	ZB56KCE-TWC-551	85,334
7.5	OHSE-A7534E-HFC	8826797	R-507	460/60/3	ZS56K4E-TWD-551	84,280
10	OHSE-A103E-HFC	8826798	R-507	208-230/60/3	ZB75KCE-TWC-551	117,992
10	OHSE-A1034E-HFC	8826799	R-507	460/60/3	ZS75KCE-TWD-551	117,992

<sup>1</sup> Based on compressor manufacturer's data at 30°F SST and 100°F CT. Actual Btu/h output and energy usage may vary depending on field conditions.

## 1.5 Milk Cooler Evaporator Cooling Instructions — R-22 (Reference Charts 1.6 and 1.7)

1. Compare the horsepower ratings for the units that you have chosen to evaporator capacities on the chart in Section 1.6 to ensure that you do not exceed the capacities of the milk cooler's evaporator.
2. Calculate your BTU load per milking, and choose refrigeration units accordingly from the chart in Section 1.7.

NOTE: R-22 capacities are shown for service reference only; R-22 units are no longer available as of January 1, 2010, due to EPA phase-out.

## 1.6 Milk Cooler Evaporator Cooling Capacity Chart — R-22, 60 Hz Applications (Discontinued)

Recommended Maximum Horsepower Capacity for Each Evaporator — R-22, 60 Hz Applications (Discontinued)				
Single Unit	Bottom Only			
500S	5			
600S	5			
700S	5			
800S	5			
1,000S	5			
1,350S	7.5			
1,600S	7.5			
Dual Units	Bottom Circuit		Side Circuit	
800D	3.5		3.5	
1,000D	3.5		3.5	
1,350D	5 <sup>1</sup>		3.5	
1,600D	5		5	
2,000D	5		5	
2,000C-D	5		5	
2,700D	5		5	
Triple Units	Bottom Circuit		Left Side	Right Side
3,000T	7.5		5	5
4,000T	10 <sup>2,3</sup>		7.5 <sup>3</sup>	7.5 <sup>3</sup>
4,000L-T	10		7.5	7.5
5,000T	10 <sup>2,3</sup>		7.5 <sup>3</sup>	7.5 <sup>3</sup>
Quad Units	Left Bottom	Right Bottom	Left Side	Right Side
6,000Q	10 <sup>2,3</sup>	10 <sup>2,3</sup>	7.5 <sup>3</sup>	7.5 <sup>3</sup>
6,700Q	10	10	7.5	7.5
7,000Q	10 <sup>2,3</sup>	10 <sup>2,3</sup>	7.5	7.5
8,000Q	10	10	7.5	7.5

<sup>1</sup> Coolers manufactured after 1995. Contact Mueller's Dairy Farm Service Department for earlier model capacities.

<sup>2</sup> 10 hp HiPerForm® units only, 7.5 hp maximum if using "OE" units.

<sup>3</sup> Coolers manufactured after January 1, 2002. Contact Mueller's Dairy Farm Service Department for earlier model capacities.

NOTE: Table is calculated using condensing unit capacities operating on 60 Hz power supplies at 30°F SST and 100°F CT.

## 1.7 Refrigeration Unit(s) Capacity Ratings Chart — R-22 (Discontinued)

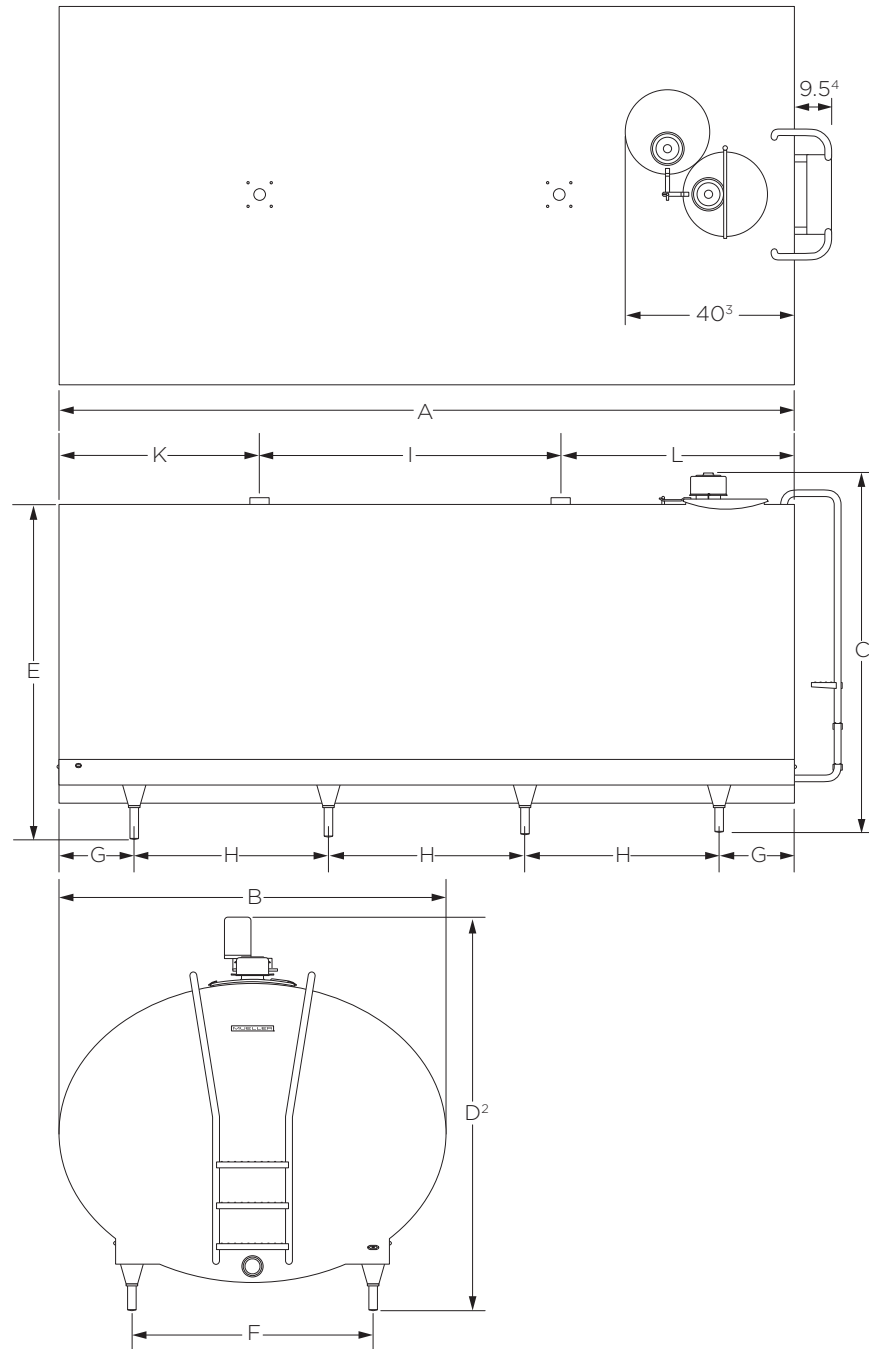
NOTE: R-22 capacities are shown for service reference only; R-22 units are no longer available as of January 1, 2010, due to EPA phase-out.

Compressor Btu/h Capacity Ratings Chart — R-22, 60 Hz Applications (Discontinued)						
Size HP	Unit Model No.	Part No.	Refrigerant	Voltage Characteristics	Model	Btu/Hr <sup>1</sup>
Single Phase						60 HZ
3.5	A351-OESE	8822363	R-22	208-230/60/1	ZB26KC-PFV-230	34,600
3.5	A351-OHSE	8822365	R-22	208-230/60/1	ZB26KC-PFV-230	35,984
5	A51-OESE	8820730	R-22	208-230/60/1	ZB38KC-PFV-250	49,100
5	A51-OHSE	8822071	R-22	208-230/60/1	ZB38KC-PFV-250	51,064
Three Phase						
3.5	A353-OESE	8822362	R-22	208-230/60/3	ZB26KC-TF5-230	35,500
3.5	A353-OHSE	8822364	R-22	208-230/60/3	ZB26KC-TF5-230	36,920
5	A53-OESE	8822030	R-22	208-230/60/3	ZB38KC-TF5-250	51,500
5	A53-OHSE	8822073	R-22	208-230/60/3	ZB38KC-TF5-250	53,560
5	A534-OESE	8822904	R-22	460/60/3	ZB38KC-TFD-250	51,500
5	A534-OHSE	8822903	R-22	460/60/3	ZB38KC-TFD-250	53,560
7.5	A753-OESE-A	8824427	R-22	208-230/60/3	ZB56KC-TWC-551	73,000
7.5	A753-OHSE-A	8824426	R-22	208-230/60/3	ZB56KC-TWC-551	75,920
7.5	A7534-OESE-A	8824428	R-22	460/60/3	ZB56KC-TWD-551	73,000
7.5	A7534-OHSE-A	8824429	R-22	460/60/3	ZB56KC-TWD-551	75,920
10	A103-OESE-A	8824430	R-22	208-230/60/3	ZB75KC-TWC-551	98,500
10	A103-OHSE-A	8824432	R-22	208-230/60/3	ZB75KC-TWC-551	102,440
10	A1034-OESE-A	8824431	R-22	460/60/3	ZB75KC-TWD-551	98,500
10	A1034-OHSE-A	8824433	R-22	460/60/3	ZB75KC-TWD-551	102,440

<sup>1</sup> Based on compressor manufacturer's data at 30°F SST and 100°F CT. Actual Btu/h output and energy usage may vary depending on field conditions.

## Section 2.0 – Milk Cooler Dimensions

### 2.1 Standard Dimensions Drawing, Milk Coolers Manufactured After January 1, 2009



<sup>1</sup> Height to top of vent

<sup>2</sup> Height to rear agitator.

<sup>3</sup> Distance to rear edge of cover when fully open.

<sup>4</sup> Distance the ladder extends off front of tank.



## 2.2 Standard Dimensions Chart, Milk Coolers Manufactured After January 1, 2009

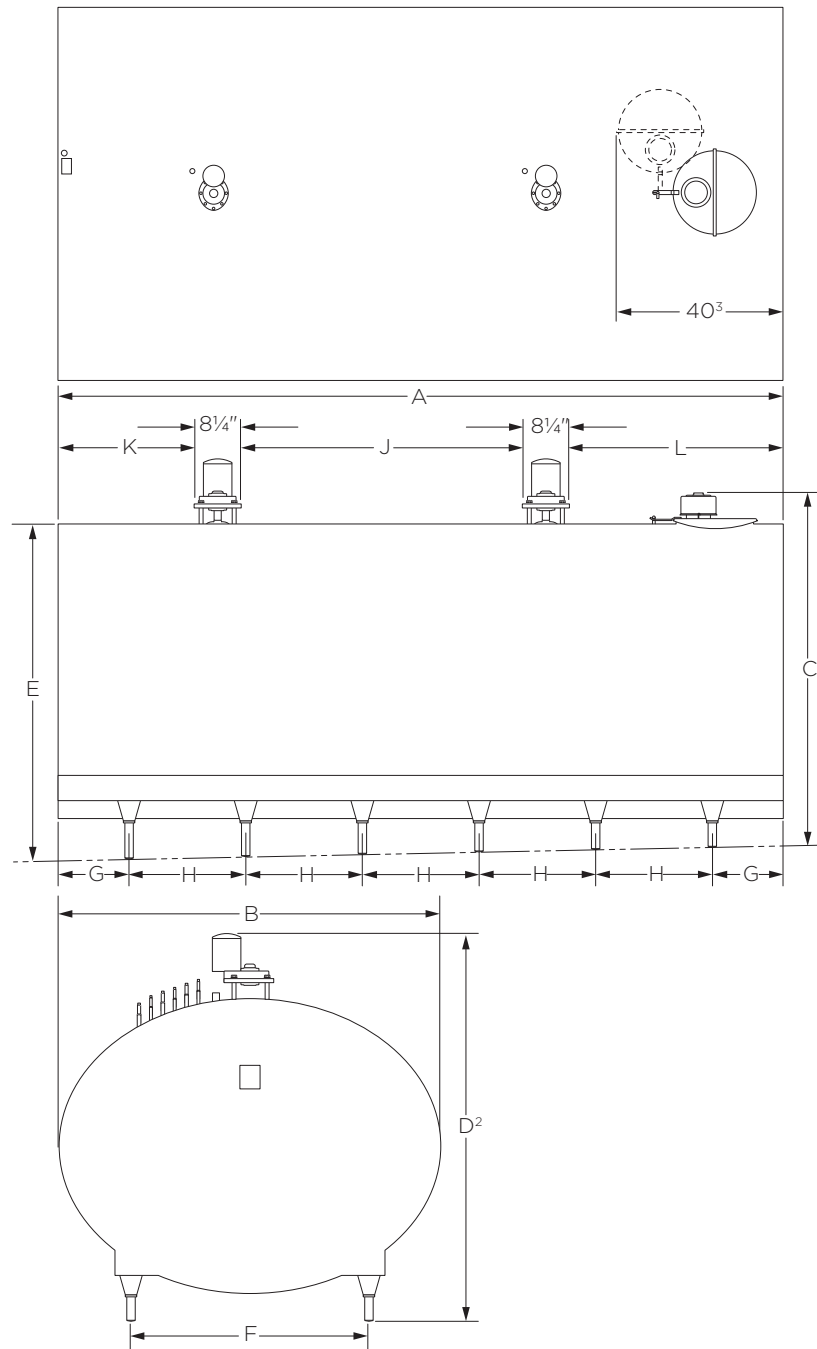
Standard Dimensions Chart, Milk Coolers Manufactured After January 1, 2009														
Capacity (gal)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)	J (in)	K (in)	L (in)	No. of Legs	Weight (lb)
500	78	61 $\frac{1}{8}$	59 $\frac{1}{4}$	69 $\frac{3}{8}$	54	38	18	42	–	–	39 $\frac{1}{2}$	38 $\frac{1}{2}$	4	934
600	90	61	59 $\frac{1}{2}$	69 $\frac{1}{2}$	54 $\frac{1}{2}$	38	18	54	–	–	51 $\frac{1}{2}$	38 $\frac{1}{2}$	4	1,044
800	80	71 $\frac{5}{16}$	67 $\frac{1}{2}$	77 $\frac{7}{8}$	62 $\frac{1}{2}$	50	18	44	–	–	41 $\frac{1}{2}$	38 $\frac{1}{2}$	4	1,284
1,000	102	71 $\frac{5}{16}$	67 $\frac{1}{2}$	77 $\frac{7}{8}$	62 $\frac{1}{2}$	50	18	33	–	–	63 $\frac{1}{2}$	38 $\frac{1}{2}$	6	1,576
1,350	103	80	75	85 $\frac{1}{2}$	70 $\frac{1}{2}$	48 $\frac{1}{4}$	18	33	–	–	52	51	6	1,770
1,600	121	80	75	85 $\frac{1}{2}$	70 $\frac{1}{2}$	48 $\frac{1}{4}$	18	42	–	–	61	60	6	1,988
2,000	155	80	75	85 $\frac{1}{2}$	70 $\frac{1}{2}$	48 $\frac{1}{4}$	17 $\frac{1}{2}$	40	–	–	77 $\frac{1}{2}$	77 $\frac{1}{2}$	8	2,432
2,700	155	90 $\frac{1}{2}$	83	93 $\frac{1}{2}$	78 $\frac{5}{8}$	55	17 $\frac{1}{2}$	40	–	–	77 $\frac{1}{2}$	77 $\frac{1}{2}$	8	3,220
3,000	176	90 $\frac{1}{2}$	83	95	80	55	18	46 $\frac{1}{16}$	72	–	48	56	8	3,792
4,000	196	97 $\frac{1}{2}$	86 $\frac{7}{8}$	99	84 $\frac{1}{8}$	58	See Section 2.3		96	–	44	56	10	5,982
4,000L	232	90 $\frac{1}{2}$	83	97	83	55	See Section 2.3		113	–	59 $\frac{1}{2}$	59 $\frac{1}{2}$	10	6,000
5,000	196	107 $\frac{7}{8}$	95 $\frac{1}{2}$	108	93	62	See Section 2.3		96	–	44	56	10	6,282
6,700	228	118 $\frac{7}{8}$	103 $\frac{5}{8}$	116	102 $\frac{1}{2}$	72	See Section 2.3		96	–	76	56	12	7,324
8,000	228	126 $\frac{7}{8}$	108 $\frac{3}{8}$	121	106 $\frac{3}{8}$	78	See Section 2.3		96	–	76	56	12	8,080

## 2.3 Leg Spacing, Milk Coolers Manufactured After January 1, 2009

Leg Spacing for 4,000- to 8,000-Gallon Milk Coolers Manufactured After January 1, 2009							
Tank Size	Front Head to First Leg	First Leg to Second Leg	Second Leg to Third Leg	Third Leg to Fourth Leg	Fourth Leg to Fifth Leg	Fifth Leg to Sixth Leg	Last Leg to Rear Head
4,000	18	32	48	48	32	–	18
4,000L	18	49	49	49	49	–	18
5,000	18	32	48	48	32	–	18
6,700	12	23 $\frac{1}{2}$	52 $\frac{5}{16}$	52 $\frac{5}{16}$	52 $\frac{5}{16}$	23 $\frac{1}{2}$	12
8,000	12	23 $\frac{1}{2}$	52 $\frac{5}{16}$	52 $\frac{5}{16}$	52 $\frac{5}{16}$	23 $\frac{1}{2}$	12

NOTE: Charts in Sections 2.2 and 2.3 are to be used with the drawing in Section 2.1.

## 2.4 Standard Dimensions Drawing, Milk Coolers Manufactured Between 1/1/88 and 1/1/09



<sup>1</sup> Height to top of vent

<sup>2</sup> Height to rear agitator.

<sup>3</sup> Distance to edge of cover when fully opened.

## 2.5 Standard Dimensions Chart, Milk Coolers Manufactured Between 1/1/88 and 1/1/09

Standard Dimensions Chart, Milk Coolers Manufactured Between January 1, 1988 and January 1, 2009														
Capacity (gal)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)	J (in)	K (in)	L (in)	No. of Legs	Weight (lb)
500	78	61	55¼	63¾	51	37¼	18	42	—	—	35¾	34¾	4	934
600	90	61	55¼	64	51¼	37¼	18	54	—	—	47¾	34¾	4	1,044
800	80	71¼	65⅙	73½	60¾	50	18	44	—	—	37¾	34¾	4	1,284
1,000	102	71¼	65⅙	74	61¼	50	18	33	—	—	59¾	34¾	6	1,576
1,350	102	80	73	82	69⅞	48¼	18	33	—	—	46⅞	46⅞	6	1,770
1,600	120	80	73	82¼	69½	48¼	18	42	—	—	55⅞	55⅞	6	1,988
2,000	155	80	73	83	70¼	48¼	17½	40	—	—	73¾	73¾	8	2,432
2,700	155	90½	81¾	91⅞	79	55	17½	40	—	—	73¾	73¾	8	3,220
3,000	176	90½	81¾	92¼	79¾	55	18	35	72	63¾	43⅞	51⅞	10	3,792
4,000	196	97⅞	88⅙	99	86¼	58	18	32	96	87¾	39⅞	51⅞	12	5,982
5,000	196	108	95¼	106¼	93¾	62	18	32	96	87¾	39⅞	51⅞	12	6,282
6,000	196	119	101¼	112¼	99¾	72	12¼	24½	96	87¾	39⅞	51⅞	16	6,792
7,000	196	127	108¾	119¼	106½	78	12¼	24½	96	87¾	39⅞	51⅞	16	6,912
8,000	228	126⅙	108¾	119¼	107⅞	78	12	25½	96	87¾	71⅞	51⅞	18	7,744

## 2.6 Standard Dimensions Chart, Milk Coolers Manufactured Before 1987 in Springfield, Missouri (For Reference Only)

Standard Dimensions Chart, Milk Coolers Manufactured Before 1987 In Springfield, Missouri (for Reference Only)													
Capacity (gal)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)	J (in)	K (in)	L (in)	No. of Legs
3,000	176	90½	81¾	92¼	79¾	55	18	35	72	63¾	43⅞	51⅞	10
4,000	196	97⅞	88⅙	99	86¼	58	18	32	96	87¾	39⅞	51⅞	12
5,000	196	108	95¼	106¼	93¾	62	18	32	96	87¾	39⅞	51⅞	12
6,000	196	119	101¼	112¼	99¾	72	12¼	24½	96	87¾	39⅞	51⅞	16
7,000	228	119	101¼	112⅞	100	72	12	25½	96	87¾	71⅞	51⅞	18
8,000	228	126⅙	109	121⅞	107¾	78	12	25½	96	87¾	71⅞	51⅞	18

## 2.7 Milk Cooler Minimum and Maximum Clearance for Standard Leg Assemblies

These dimensions are for milk cooler Models “OE” and “OH” currently manufactured in Osceola, Iowa. Standard leg assemblies give a clearance dimension under the cooler in compliance with 3-A Sanitary Standards. The minimum and maximum clearance under the cooler with standard legs are as follows:

Clearance for Standard Leg Assemblies		
Cooler Size	Minimum	Maximum
300 through 600 gallons	4"	5"
700 through 1,000 gallons	4"	8"
1,350 through 2,000 gallons	7"	9"
2,700 through 8,000 gallons	7"	9"

*Dimensions not to be used for construction unless certified.  
Approximate weight measured in pounds (includes agitator(s), pump assembly, and controls).*

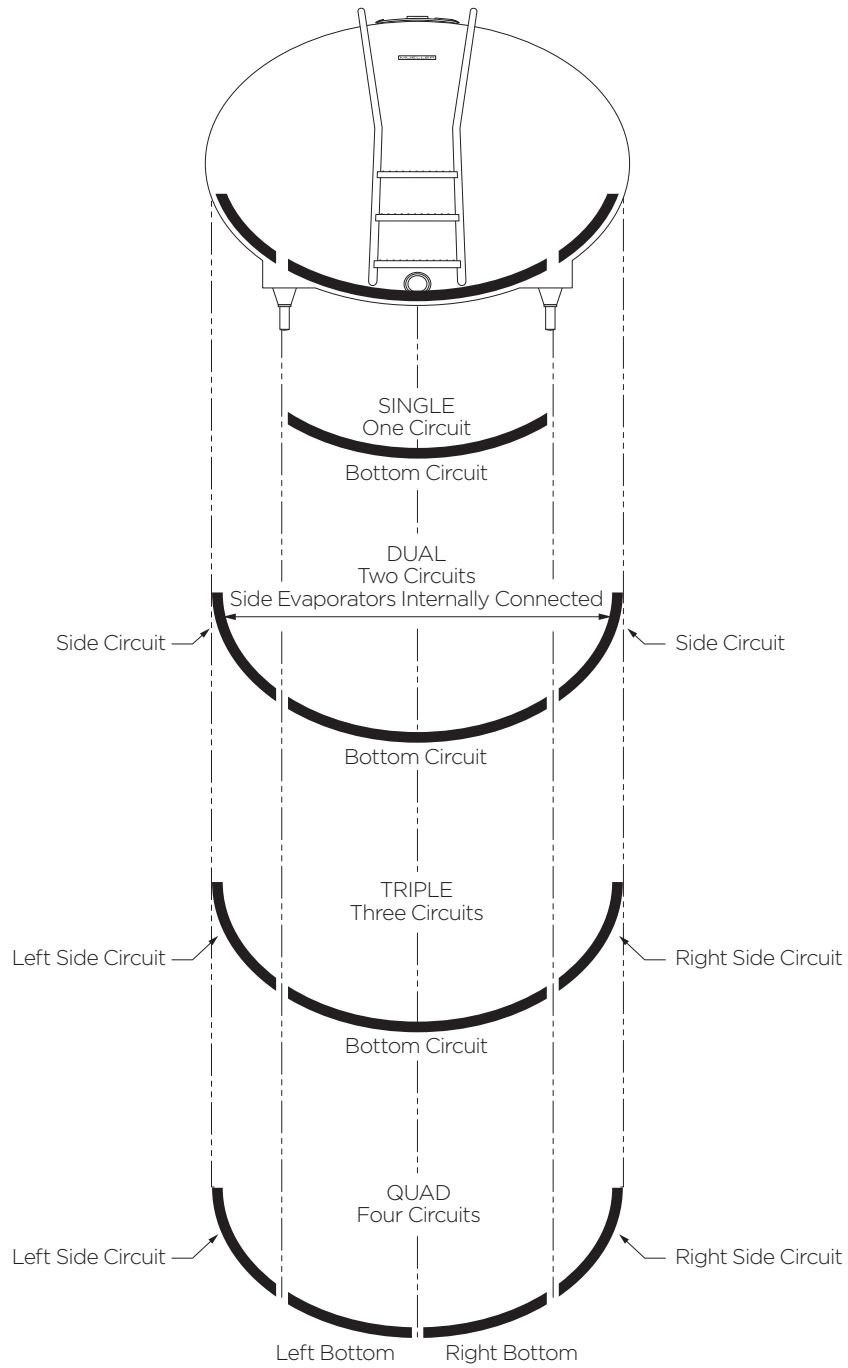
## Section 3.0 – Milk Cooler Volume Coverage

### 3.1 Volume Required to Cover Evaporators and Agitator

Cooler Size	Milk Cooler Volume Required to Cover Evaporators and Agitator					
	Bottom Evaporator(s)		Top Evaporator(s)		Agitator	
	Gallons	Pounds	Gallons	Pounds	Gallons	Pounds
500S	424	3,646	–	–	42	361
600S	514	4,420	–	–	49	421
800S	261	2,245	–	–	43	370
800D	57	490	413	3,552	43	370
1,000S	337	2,898	–	–	55	473
1,000D	71	611	532	4,575	55	473
1,350S	697	5,994	–	–	102	877
1,350D	185	1,591	765	6,576	102	877
1,600S	714	6,140	–	–	103	886
1,600D	87	748	519	4,463	103	886
2,000S	715	6,149	–	–	133	1,144
2,000D	113	972	675	5,805	133	1,144
2,700D	105	903	538	4,627	209	1,797
3,000T	120	1,032	1,390	11,954	237	2,038
4,000T	114	980	2,589	22,265	229	2,276
5,000T	102	877	2,546	21,896	297	2,554
6,000Q	750	6,450	4,412	37,943	315	2,709
6,700Q	1,130	9,718	5,658	48,659	460	3,956
7,000Q	700	6,020	4,612	39,663	312	2,683
8,000Q	815	7,009	5,380	46,268	364	3,130

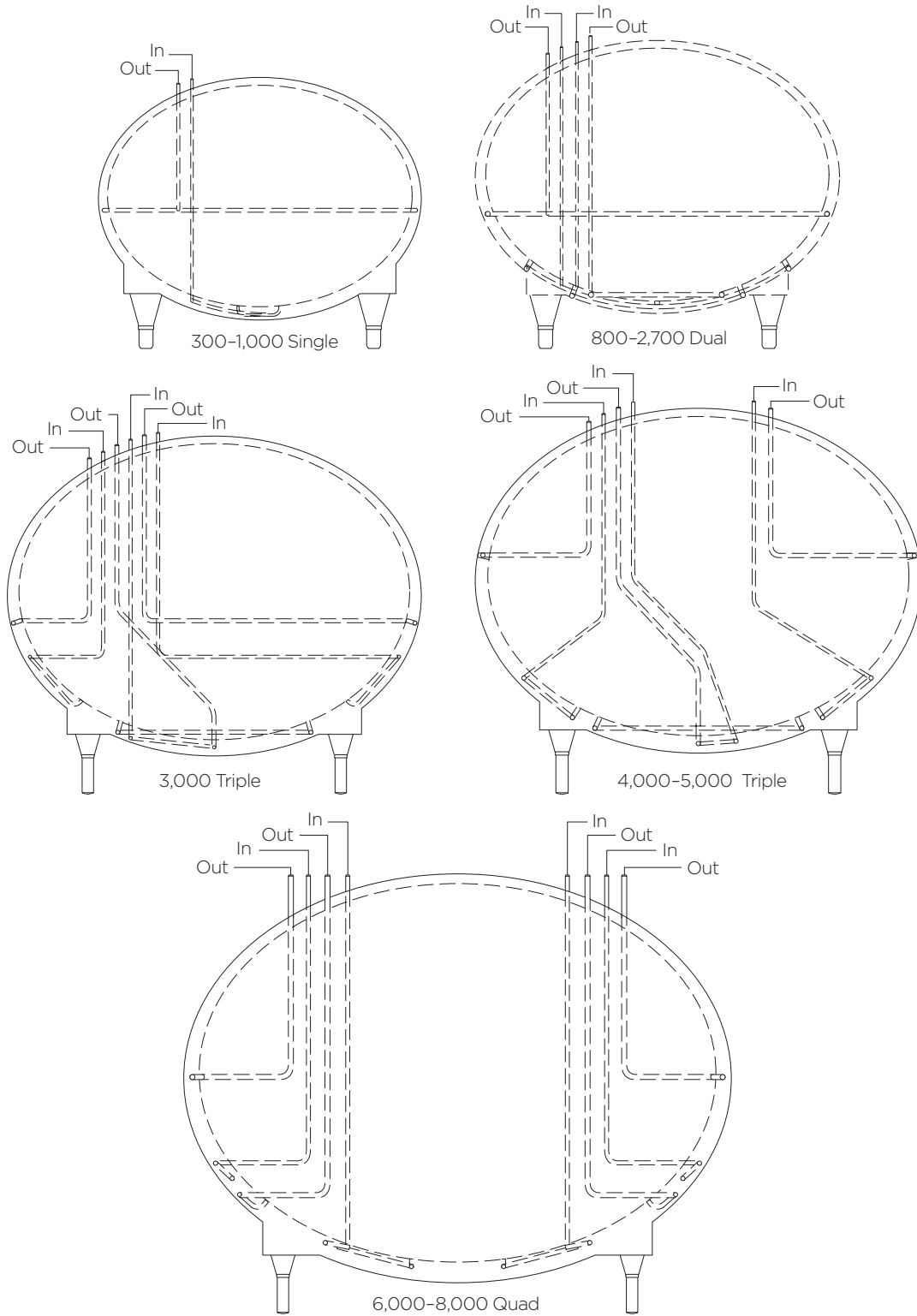
NOTE: These volumes are at complete coverage of evaporators.

### 3.2 Evaporator Design



# Section 4.0 - Refrigerant Connection Location and Sizes

## 4.1 Refrigerant Connection Location



## 4.2 Refrigerant Connection Sizes

Refrigerant Connection Sizes		
Cooler Size	Inlet	Outlet
500 through 3,000 gallons	½" O.D. Inlet	⅞" O.D. Outlet
4,000 through 8,000 gallons	¾" O.D. Inlet	1⅝" O.D. Outlet



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