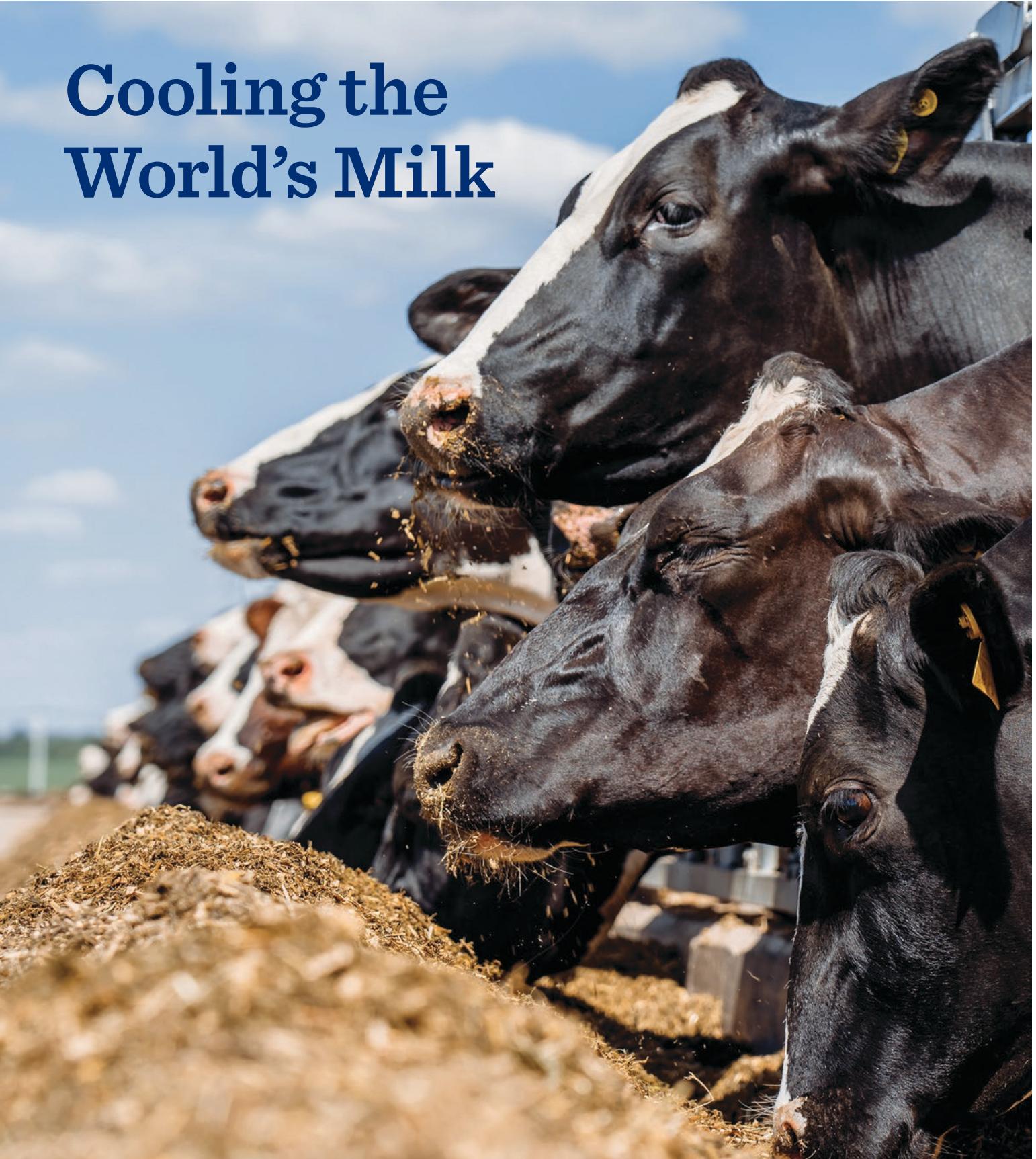


# Cooling the World's Milk



2025 DAIRY FARM EQUIPMENT CAPITAL GOODS CATALOG

**MUELLER**

# A Partnership for Success

**AT PAUL MUELLER COMPANY**, we believe the true partnership between dairy producers, our dealers, and our company best serves everyone. Since 1955, it has been our goal to be progressive with not only our products and services but also with our relationships in the dairy community. As the industry continues to evolve, we are devoted to meeting the needs of our customers while striving to exceed expectations. Every day, certified Mueller® dealers provide industry knowledge crucial to our current and future products and services. This collaborative effort has led Paul Mueller Company and its dealer network to be the leader in “Cooling the World’s Milk.”





*We hope you  
find this catalog  
helpful and  
informative,  
giving you all  
the tools and  
inspiration you  
need to best serve  
dairy producers.*

**NOTE:**

Milk Tower® is a registered trademark of Paul Mueller Company in the United States, United Kingdom, and Europe. As of press time, the registered trademark status for Canada is awaiting examination and pending.

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# Model “O” Milk Cooler

***The building block of  
milk cooling and storage!***

Paul Mueller Company's Model “O” milk cooler gives you the freedom to customize a system to fit your customer's needs. With advancements at commercial and robotic dairies, there was a growing need for flexible and adjustable options. This model allows you to buy the basic milk cooling and storage tank and integrate it with your installation. Familiarize yourself with the standard and optional features on the Model “O” milk cooler and help your dairy producers grow, while staying on budget.



MODEL “O” MILK COOLER		
Model	Part Number	List Price
O 600 Single	8827904	
O 800 Single	8827905	
O 1,000 Single	8827907	
O 1,350 Single	8827909	
O 1,350 Dual	8827910	
O 1,600 Single	8827911	
O 1,600 Dual	8827912	
O 2,000 Single	8827915	
O 2,000 Dual	8827916	
O 2,000C Dual	8827918	
O 2,700 Dual	8827919	
O 3,000 Triple	8827920	
O 4,000 Triple	8827921	
O 4,000L Triple	8827922	
O 5,000 Triple	8827923	
O 6,700 Quad	8827924	
O 8,000 Quad	8827925	

## STANDARD FEATURES

- Agitator drive(s) and paddle(s).
- Electrical junction boxes.
- Personnel access assembly.
- Refrigeration circuit(s).
- Calibration charts.
- Spray dishes.
- Internal CIP piping for milk coolers up to 4,000 gallons.
- External CIP piping for milk coolers 4,000L gallons and up.
- Internal measuring stick for milk coolers up to 2,000 gallons.
- External sight glass for milk coolers 2,000C gallons and up.
- Internal ladder for milk coolers 2,000C gallons and up.
- IFM level sensor port in milk cooler outlet pod (plugged).
- Packaged parts (milk hauler accessible 2" or 3" Acme connection).

## OPTIONAL ADD-ONS

- Internal measuring stick for milk coolers 2,000C gallons and up (requires field calibration).
- High level, 1.5" or 2" tri-clamp port.
- Agitation sensor port (Dairy Cheq), front or rear.
- Disc-type outlet valve, 2" or 3".

### NOTES:

Optional add-ons are not included in the table shown above.

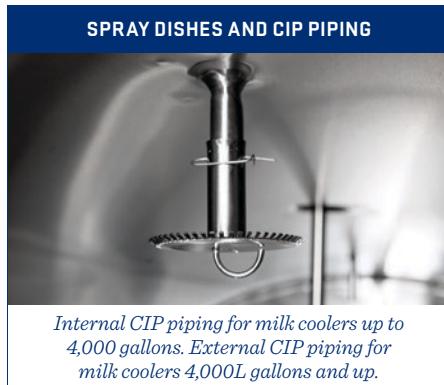
See pages 9 and 10 for optional add-ons.

See pages 19 to 22 for cooling and wash control assemblies.

# A Closer Look



The weather shield assembly kit is sold separately. See page 10.



Internal CIP piping for milk coolers up to 4,000 gallons. External CIP piping for milk coolers 4,000L gallons and up.



All milk coolers standard with 3" tri-clamp outlet pods.



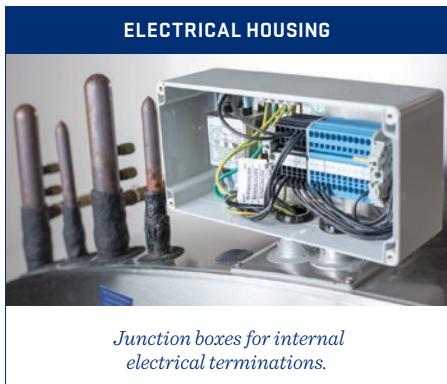
CIP wash line direct cleaning contact. Internal measuring stick access port for milk coolers up to 2,000 gallons.



For milk coolers 2,000C gallons and up.



For milk coolers up to 2,000 gallons.



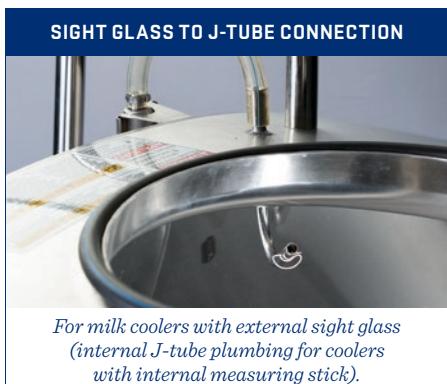
Junction boxes for internal electrical terminations.



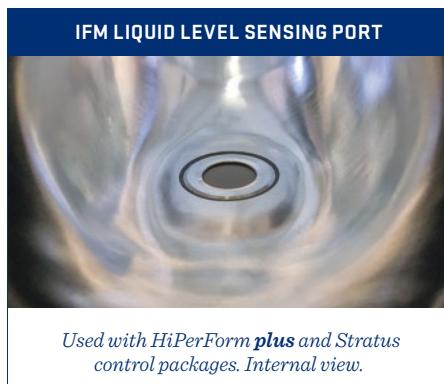
Temperature sensor connection junction box. Level device for primary leveling of milk cooler.



Bottom evaporator. All stainless steel refrigeration circuits and piping. Copper stubs for external refrigeration connections.



For milk coolers with external sight glass (internal J-tube plumbing for coolers with internal measuring stick).



Used with HiPerForm plus and Stratus control packages. Internal view.



Tri-clamp ferrule, 1.5" or 2" (10" behind personnel access opening). See page 10.

# Model “OH” Milk Cooler

**Flexible cooling and wash controls  
for customized chemical dosing!**

The Model “OH” milk cooler has the entire clean-in-place (CIP) system and modular outlet valve assembly from Paul Mueller Company. This model allows you, the dealer, to focus on other aspects of the milk cooler installation and leave the cleaning to us. Add a HiPerForm® cooling and wash control and Water Works box to your Mueller Model “OH” milk cooler and you are ready to milk. The wall-mount control system lets the dairy producer pick just the right spot to place the interface.



MODEL "OH" MILK COOLER		
Model	Part Number	List Price
OH 600 Single	8827930	
OH 800 Single	8827931	
OH 1,000 Single	8827933	
OH 1,350 Single	8827935	
OH 1,350 Dual	8827936	
OH 1,600 Single	8827937	
OH 1,600 Dual	8827938	
OH 2,000 Single	8827941	
OH 2,000 Dual	8827942	
OH 2,000C Dual	8827944	
OH 2,700 Dual	8827945	
OH 3,000 Triple	8827946	
OH 4,000 Triple	8827947	
OH 4,000L Triple	8827948	
OH 5,000 Triple	8827949	
OH 6,700 Quad	8827950	
OH 8,000 Quad	8827951	

## NOTES:

Optional add-ons are not included in the table shown above. See pages 9 and 10 for optional add-ons. See pages 19 to 22 for cooling and wash control assemblies.

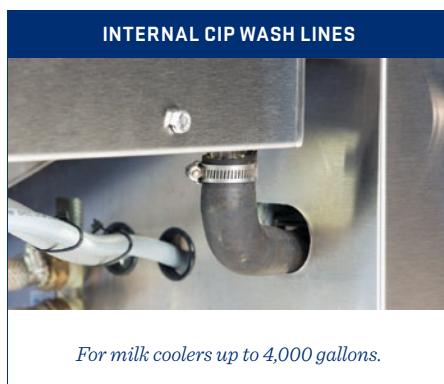
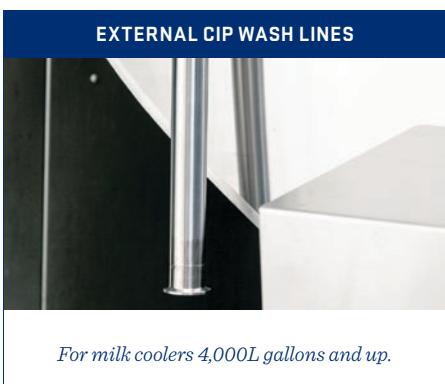
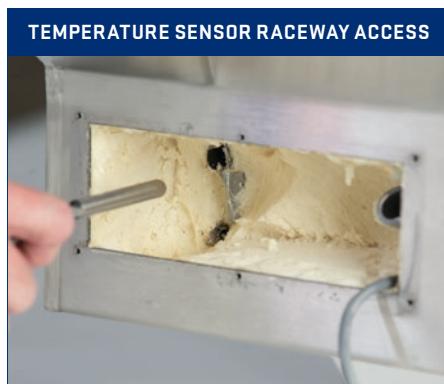
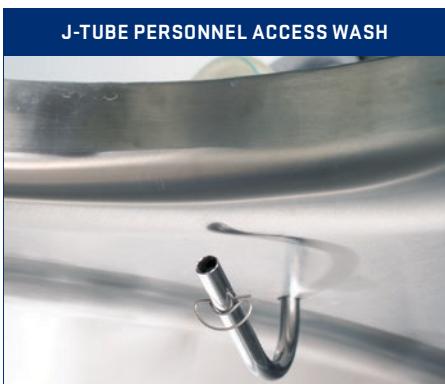
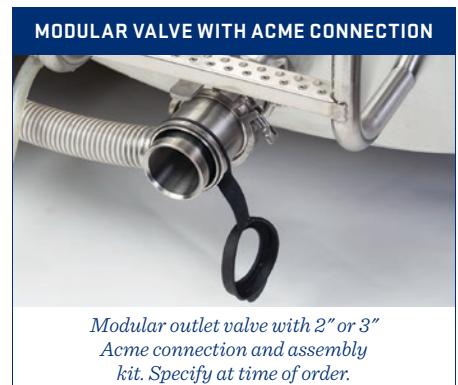
## STANDARD FEATURES

- Agitator drive(s), motor(s), and paddle(s).
- Electrical junction boxes.
- Personnel access assembly.
- Refrigeration circuit(s).
- Calibration charts.
- Spray dishes.
- Wash pump kit.
- 24 V normally open drain valve.
- Internal CIP piping for milk coolers up to 4,000 gallons.
- External CIP piping for milk coolers 4,000L gallons and up.
- Internal measuring stick for milk coolers up to 2,000 gallons.
- External sight glass for milk coolers 2,000C gallons and up.
- Internal ladder for milk coolers 2,000C gallons and up.
- IFM level sensor port in milk cooler outlet pod (plugged).
- Modular outlet valve with 2" or 3" Acme connection and assembly kit.

## OPTIONAL ADD-ONS

- Internal measuring stick for milk coolers 2,000C gallons and up (requires field calibration).
- High level, 1.5" or 2" tri-clamp port.
- Agitation sensor port (Dairy Cheq), front or rear.

# A Closer Look



# Model “OHF” Milk Cooler

***The entire milk cooling, storage, and wash package for a turnkey approach!***

The Model “OHF” milk cooler arrives on the farm ready to go to work. With limited field setup required, this new system can be installed in hours and ready for the second milking. For dairies looking to upgrade their milk cooling experience, this model is a great option. Simply set the milk cooler, plumb the water and chemical lines, connect refrigeration circuits, make your electrical supply terminations, and the Mueller Model “OHF” milk cooler will provide cooling and storage for years to come.



MODEL “OHF” MILK COOLER*		
Model	Part Number	List Price
OHF 800 Single	8827957	
OHF 1,000 Single	8827959	
OHF 1,350 Single	8827961	
OHF 1,350 Dual	8827962	
OHF 1,600 Single	8827963	
OHF 1,600 Dual	8827964	
OHF 2,000 Single	8827967	
OHF 2,000 Dual	8827968	
OHF 2,000C Dual	8827970	
OHF 2,700 Dual	8827971	
OHF 3,000 Triple	8827972	
OHF 4,000 Triple	8827973	
OHF 4,000L Triple	8827974	
OHF 5,000 Triple	8827975	
OHF 6,700 Quad	8827976	
OHF 8,000 Quad	8827977	

\*Model OHF milk coolers with HiPerForm **plus** include an IFM level sensor port and IFM level transducer.

## NOTES:

Optional add-ons are not included in the table shown above. See pages 9 and 10 for optional add-ons. See pages 19 to 22 for cooling and wash control assemblies.

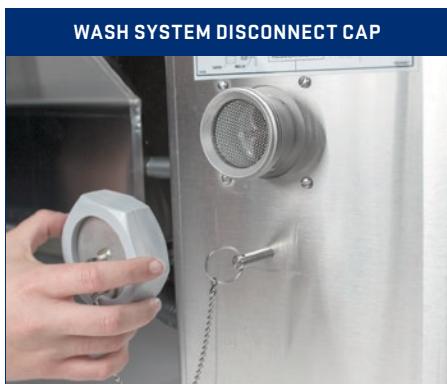
## STANDARD FEATURES

- HiPerForm cooling and wash control.
- Air-gapped HiPerForm **plus** chemical dosing system.
- Agitator drive(s), motor(s), and paddle(s).
- Electrical junction boxes.
- Personnel access assembly.
- Refrigeration circuit(s).
- Calibration charts.
- Spray dishes.
- Wash pump kit.
- 24 V normally open drain valve.
- Air-gapped water protection system.
- Internal CIP piping for milk coolers up to 4,000 gallons.
- External CIP piping for milk coolers 4,000L gallons and up.
- Internal measuring stick for milk coolers up to 2,000 gallons.
- External sight glass for milk coolers 2,000C gallons and up.
- Internal ladder for milk coolers 2,000C gallons and up.
- Modular outlet valve with 2" or 3" Acme connection and assembly kit. See page 9 for valves and valve kits.
- IFM level sensor port in milk cooler outlet pod (plugged).
- IFM level transducer sensor with data cable and atmospheric vent kit (shipped in parts box).

## OPTIONAL ADD-ONS

- Internal measuring stick for milk coolers 2,000C gallons and up (requires field calibration).
- High level, 1.5" or 2" tri-clamp port.
- Agitation sensor port (Dairy Cheq), front or rear.

# A Closer Look



# Options to Customize Your Milk Cooler

Description	Part Number
<b>MILK COOLER STANDARD OPTIONS</b>	
<b>Valves and Valve Kits</b>	
3" Tri-clamp x 3" Acme disc valve	8825528
3" Tri-clamp x 3" Acme disc valve kit (use with internal measuring stick)	8827864
3" Tri-clamp x 3" Acme disc valve kit (use with external sight glass)	8827865
3" Tri-clamp x 2" Acme "OHF" valve	8825766
3" Tri-clamp x 2" Acme "OHF" valve kit (use with internal measuring stick)	8828234
3" Tri-clamp x 2" Acme "OHF" valve kit (use with external sight glass)	8828235
3" Tri-clamp x 3" Acme "OHF" valve	8825770
3" Tri-clamp x 3" Acme "OHF" valve kit (use with internal measuring stick)	8827868
3" Tri-clamp x 3" Acme "OHF" valve kit (use with external sight glass)	8827869
3" Tri-clamp x 3" Acme "OHF" wash kit for robotic applications, no valve (use with internal measuring stick)	8828041
3" Tri-clamp x 2" Acme "OHF" wash kit for robotic applications, no valve (use with internal measuring stick)	8828316
3" Tri-clamp x 3" Acme "OHF" wash kit for robotic applications, no valve (use with external sight glass)	8828042
3" Tri-clamp x 2" Acme "OHF" wash kit for robotic applications, no valve (use with external sight glass)	8828315
Eccentric reducer, polypropylene, 3" bevel seat x 2" Acme	8825591
Eccentric reducer, stainless, 3" bevel seat x 2" Acme	8822357
<b>Model Conversions</b>	
Model "O" package parts, single agitator	8828057
Model "O" package parts, dual agitator	8828058
Model "OH" package parts, single agitator	8828059
Model "OH" package parts, dual agitator	8828060
Model "OHF" package parts, single agitator	8828061
Model "OHF" package parts, dual agitator	8828062
<b>Agitators and Accessories</b>	
Agitator motor and drive, Klauber, .25 horsepower	8827899
Agitator paddle for 300- and 400-gallon milk coolers	8803706
Agitator paddle for 400C-, 500-, and 600-gallon milk coolers	8803707
Agitator paddle for 700- to 1,000-gallon milk coolers	93696
Agitator paddle for 1,350- to 2,000-gallon milk coolers	93698
Agitator paddle for 2,000C-, 2,700-, 3,000-, and 4,000L-gallon milk coolers	93699
Agitator paddle for 4,000-gallon milk coolers	93701
Agitator paddle for 5,000-gallon milk coolers	93702
Agitator paddle for 6,700-gallon milk coolers	93703
Agitator paddle for 8,000-gallon milk coolers	8805349
<b>No Valve Kits (Used when a milk cooler is sold without an outlet valve.)</b>	
2" Milk hauler connection kit for milk coolers with internal CIP and internal measuring stick; includes manway caps, tri-clamp and gasket, 2" Acme nut, and 2" outlet cap bevel seat	8827862
2" Milk hauler connection kit for milk coolers with external CIP and external sight glass; includes manway caps, tri-clamp and gasket, 2" Acme nut, 2" outlet cap bevel seat, and all external sight glass hardware	8827863
3" Milk hauler connection kit for milk coolers with internal CIP and internal measuring stick; includes manway caps, tri-clamp and gasket, 2" Acme nut, and 2" outlet cap bevel seat	8827864
3" Milk hauler connection kit for milk coolers with external CIP and external sight glass; includes manway caps, tri-clamp and gasket, 2" Acme nut, 2" outlet cap bevel seat, and all external sight glass hardware	8827865

# Options to Customize Your Milk Cooler

Description	Part Number
<b>MILK COOLER ADD-ONS</b>	
<b>Optional Add-Ons (Specify at time of order entry.)</b>	
Agitation sensor port, Dairy Cheq MilkGuard (rear of milk cooler)	8828043
Agitation sensor port, Dairy Cheq MilkGuard (front of milk cooler)	8828077
Internal measuring stick for 2,000C-, 2,700-, and 3,000-gallon milk coolers <sup>1</sup>	8804417
Internal measuring stick for 4,000-gallon milk coolers <sup>1</sup>	8804418
Internal measuring stick for 5,000-gallon milk coolers <sup>1</sup>	8804419
Internal measuring stick for 6,700-gallon milk coolers <sup>1</sup>	8804420
Internal measuring stick for 8,000-gallon milk coolers <sup>1</sup>	8820741
Weather shield assembly kit	93750
<b>FIELD RETROFIT PARTS AND ACCESSORIES</b>	
<b>Front-Mount Pump Assemblies and Accessories</b>	
“FMP” pump assembly, 1.5 horsepower, stainless steel motor, 2” x 24” suction hose, for internal measuring stick <sup>2</sup>	8826012
“FMP” pump assembly, 1.5 horsepower, stainless steel motor, 2” x 24” suction hose, for external sight glass <sup>2</sup>	8826014
Discharge hose, 1” x 1.125”, 90°, for internally piped CIP	8823884
Discharge hose, 1” x 1.125”, 90° x 70°, for externally piped CIP	8825680
<b>Outlet Valve Connections (If “FMP” pump assembly is not used.)</b>	
Bevel-seat elbow, 2” x 3”, stainless steel (requires the use of 9901128)	8822753
Bevel-seat nut, 3”, stainless steel	9901128
Bevel-seat elbow, 2” x 2”, with 2” nut, stainless steel	8822340
<b>Drain Valve Options</b>	
Valve, drain, Mueller Matic, water-operated with 3.0 gpm orifice and adapter (requires items 1 and 2, below)	8802780
Valve, drain, 24-VAC, normally open (included with “OHF” models)	8823074
1) Adapter, rubber outlet ferrule, 2” slip x 2” ferrule	30419
2) Hose clamp, stainless steel, adjustable 1.813–2.75” (two required)	3881
3) Screen, drain valve, 304 stainless steel	8823058
4) Elbow, rubber, 2” x 90° with hose clamps	8823076
<b>Cooler-Mounted Wash Accessories</b>	
Spray dish (one required for 300- to 1,350-gallon milk coolers, two required for 1,600- to 8,000-gallon milk coolers)	8822212
Pin, keeper (one per spray dish)	9901043
Tube, CIP, 1” x 6.315”, spray dish holder with 1.5” ferrule (one per spray dish)	8822750
Manway wash tube kit (fits in external gauge return nipple)	8822875
<b>Calibration Charts</b>	
Calibration chart (pounds), printed version	8804100
Calibration chart (liters), printed version	8804101
Calibration chart (any unit), PDF email only	8829765

<sup>1</sup> Requires field calibration.

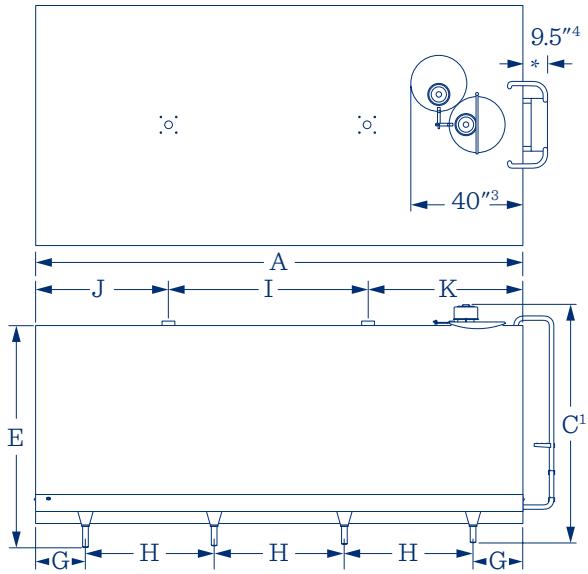
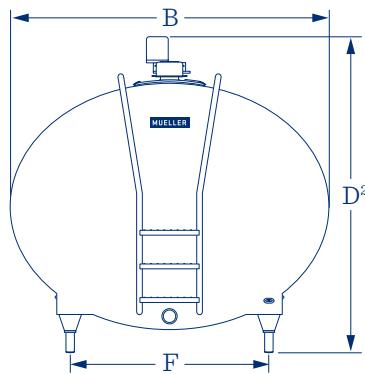
<sup>2</sup> Drain valve not included.

# Milk Cooler Dimensions and Weight

STANDARD DIMENSIONS CHART FOR 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)	No. of Legs	Weight (lb)
500	78	61.13	59.25	69.38	54	38	18	42	—	39.50	38.50	4	934
600	90	61	59.50	69.50	54.50	38	18	54	—	51.50	38.50	4	1,044
800	80	71.31	67.50	77.88	62.50	50	18	44	—	41.50	38.50	4	1,284
1,000	102	71.31	67.50	77.88	62.50	50	18	33	—	63.50	38.50	6	1,576
1,350	103	80	75	85.50	70.50	48.25	18	33	—	52	51	6	1,770
1,600	121	80	75	85.50	70.50	48.25	18	42	—	61	60	6	1,988
2,000	155	80	75	85.50	70.50	48.25	17.50	40	—	77.50	77.50	8	2,432
2,000C	120	90.50	95	95	80	55	18	42	—	60	60	6	2,356
2,700	155	90.50	83	95	78.63	55	17.50	40	—	77.50	77.50	8	3,220
3,000	176	90.50	83	95	80	55	18	46.69	72	48	56	8	3,792
4,000	196	97.50	86.88	99	84.13	58	See Leg Spacing Chart		96	44	56	10	5,982
4,000L	232	90.50	83	97	83	55	See Leg Spacing Chart		113	59.50	59.50	10	6,000
5,000	196	107.88	95.50	108	93	62	See Leg Spacing Chart		96	44	56	10	6,282
6,700	228	118.88	103.63	116	102.50	72	See Leg Spacing Chart		96	76	56	12	7,324
8,000	228	126.88	108.38	121	106.38	78	See Leg Spacing Chart		96	76	56	12	8,080

LEG SPACING FOR 4,000- TO 8,000-GALLON MILK COOLERS MANUFACTURED AFTER JANUARY 1, 2009							
Tank Size	Front Head to First Leg (in)	First Leg to Second Leg (in)	Second Leg to Third Leg (in)	Third Leg to Fourth Leg (in)	Fourth Leg to Fifth Leg (in)	Fifth Leg to Sixth Leg (in)	Last Leg to Rear Head (in)
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	23.50	52.31	52.31	52.31	23.50	12
8,000	12	23.50	52.31	52.31	52.31	23.50	12

## Milk Cooler Dimensions



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

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

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

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

See Mueller Milk Cooler Dimensions and Capacities (MC-275) for information on milk coolers manufactured before 2009.

# Milk Cooler Evaporator Capacity and Coverage

RECOMMENDED MAXIMUM HORSEPOWER CAPACITY FOR EACH EVAPORATOR <sup>1</sup>   R-507, 60 HZ APPLICATIONS			VOLUME IN GALLONS REQUIRED TO COVER EVAPORATORS AND AGITATOR <sup>2</sup>			
Model	Circuits		Evaporator		Agitator	
Single Unit	Bottom Only	—	Bottom	Top	Front	Rear
500	3.5	—	452	—	111	—
600	5	—	527	—	126	—
800	5	—	482	—	124	—
1,000	5	—	628	—	154	—
1,350	7.5	—	697	—	209	—
1,600	7.5	—	714	—	249	—
2,000	7.5	—	671	—	226	—
Dual Units	Bottom	Side	Bottom	Top	Front	Rear
800	3.5	3.5	78	443	124	—
1,000	3.5	3.5	106	578	154	—
1,350	5	3.5	222	816	209	—
1,600	5	3.5	123	648	249	—
2,000	5	3.5	173	862	320	—
2,000C	5	3.5	111	806	226	—
2,700	5	5	157	1,586	289	—
Triple Units	Bottom	Left/Right Side	Bottom	Top	Front	Rear
3,000	7.5	5	190	1,824	297	366
4,000	7.5	7.5	214	2,808	324	433
4,000L	7.5	7.5	236	2,474	374	513
5,000	7.5	7.5	202	2,782	384	502
Quad Units	Left/Right Bottom	Left/Right Side	Bottom	Top	Front	Rear
6,700	9	7.5	1,040	5,525	440	585
8,000	9	7.5	1,069	5,746	451	600

<sup>1</sup> This table is calculated using refrigeration unit capacities operating on 60 Hz power supplies at 30°F SST and 100°F CT. These capacities are based on current manufactured Mueller milk coolers and E-Star HiPerForm EVC condensing units.

<sup>2</sup> These volumes are at complete coverage of evaporators.

MINIMUM WATER REQUIREMENTS PER CYCLE TO PREVENT CAVITATION		
Milk Cooler Model	Gallons	Liters
400-1,000	15	56.78
1,350-2,000C	20	75.71
2,700-3,000	21	79.49
4,000-5,000	25	94.64
6,700-8,000	40	151.42

REFRIGERANT CONNECTION SIZE		
Milk Cooler Model <sup>1</sup>	Inlet	Outlet
300S-1,000S, 1,350D-2,000D	.625" OD	.875" OD
1,350S-1,600S	.625" OD	1.125" OD
2,000S	.625" OD	1.375" OD
2,700D, 3,000-8,000	.625" OD	1.125" OD

<sup>1</sup> A milk cooler model with an "S" indicates a single evaporator. A milk cooler model with a "D" indicates dual evaporators.

# Milk Tower®

*Designed with optimal cooling capacity and ultimate milk protection in mind!*

## STANDARD FEATURES

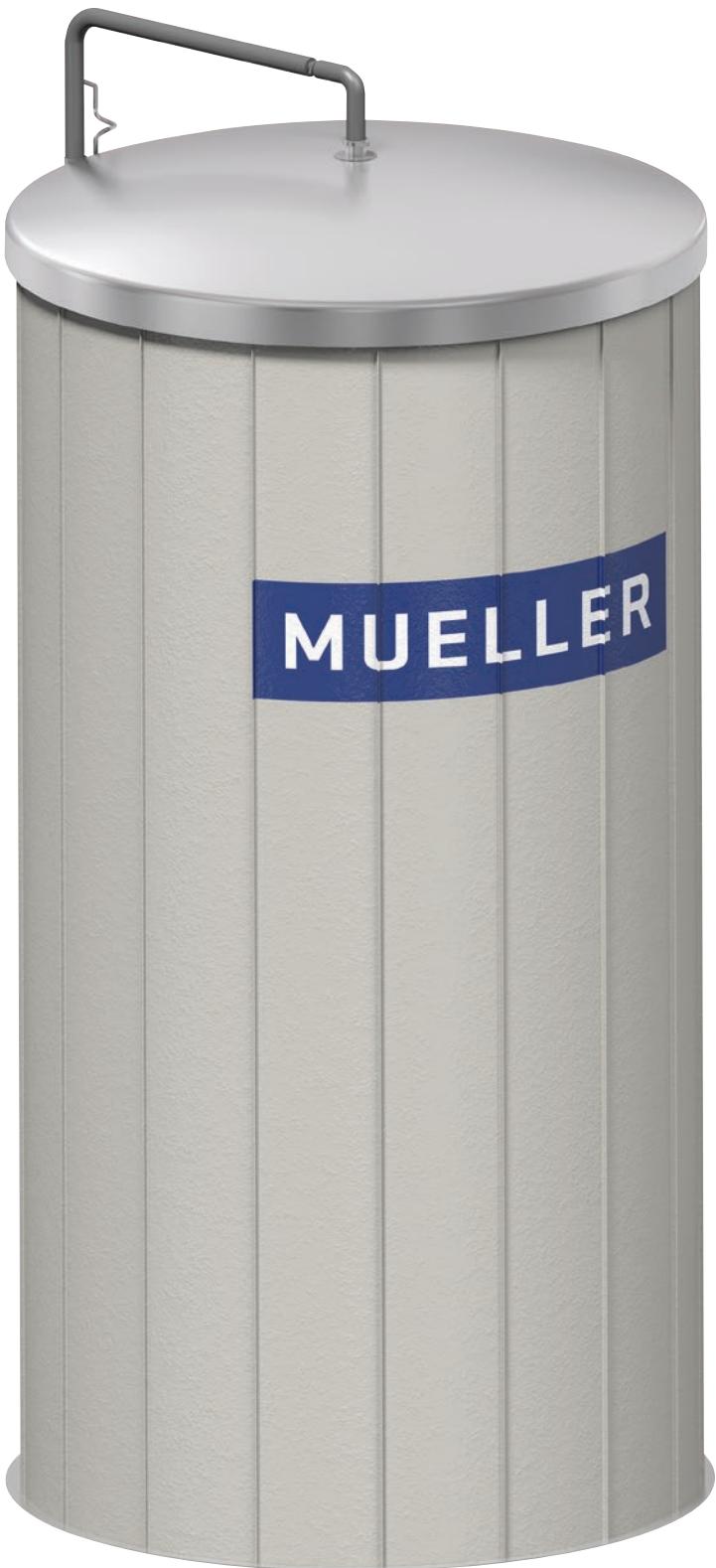
- Mueller Temp-Plate® heat transfer surface.
- Stainless steel, insulated manway QMI fitment door with aseptic sampler.
- IFM sensor well (level).
- Three-inch outlet connection.
- Three-inch inlet connection.
- Four-inch vent assembly.
- Stainless steel inner shell.
- Stainless steel base assembly.
- The alcove, manufactured with 12-gauge stainless steel, has a No. 4 (3-A) interior finish that lets you clean with ease.
- Self-regulating heat tape on CIP/vent line.
- Embossed aluminum outer shell (ash gray), with hidden fastener technology, features removable, two-foot-wide panels for easier access.
- Horizontal agitator powered by a hollow-shaft gearmotor.
- Perforated and removable vent screens.
- Thermometer well for recording temperature.
- Dial-type thermometer.
- Removable clean-in-place (CIP) spray dish. (CIP door and attachment must be included as add-ons.)

## OPTIONS

- Tank Mate or Anderson sensor well (level).
- Additional 3" or 4" inlet connection.
- Upgrade to 4" outlet.
- Upgrade to 4" inlet.
- Insulated alcove.

## ADD-ONS

- Disc-type outlet valve, 3" tri-clamp x 3" Acme.
- CIP attachment.
- CIP door.

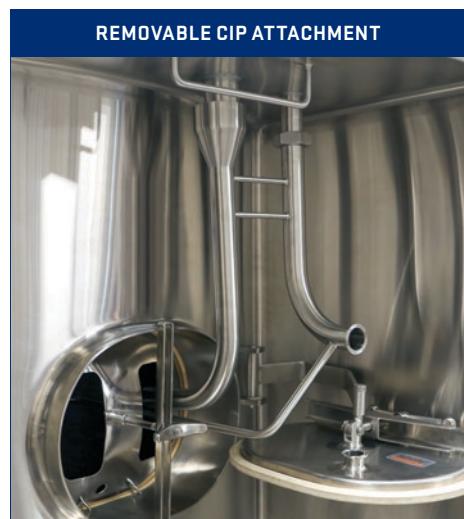
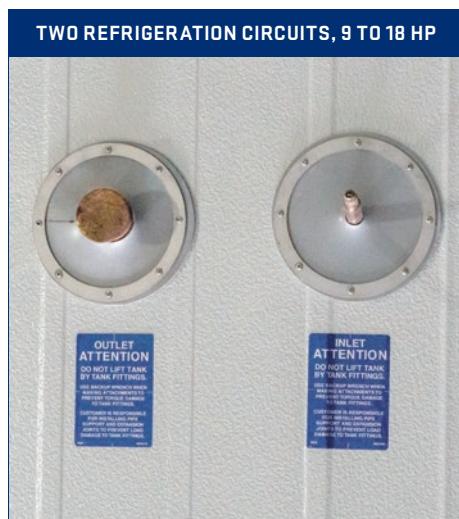
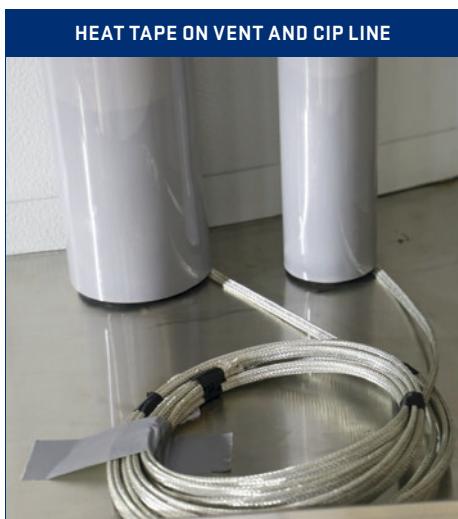


Configured part  
number 9880550.

### NOTE:

Milk Tower® is a registered trademark of Paul Mueller Company in the U.S., U.K., and Europe. As of press time, the registered trademark status for Canada is awaiting examination and pending.

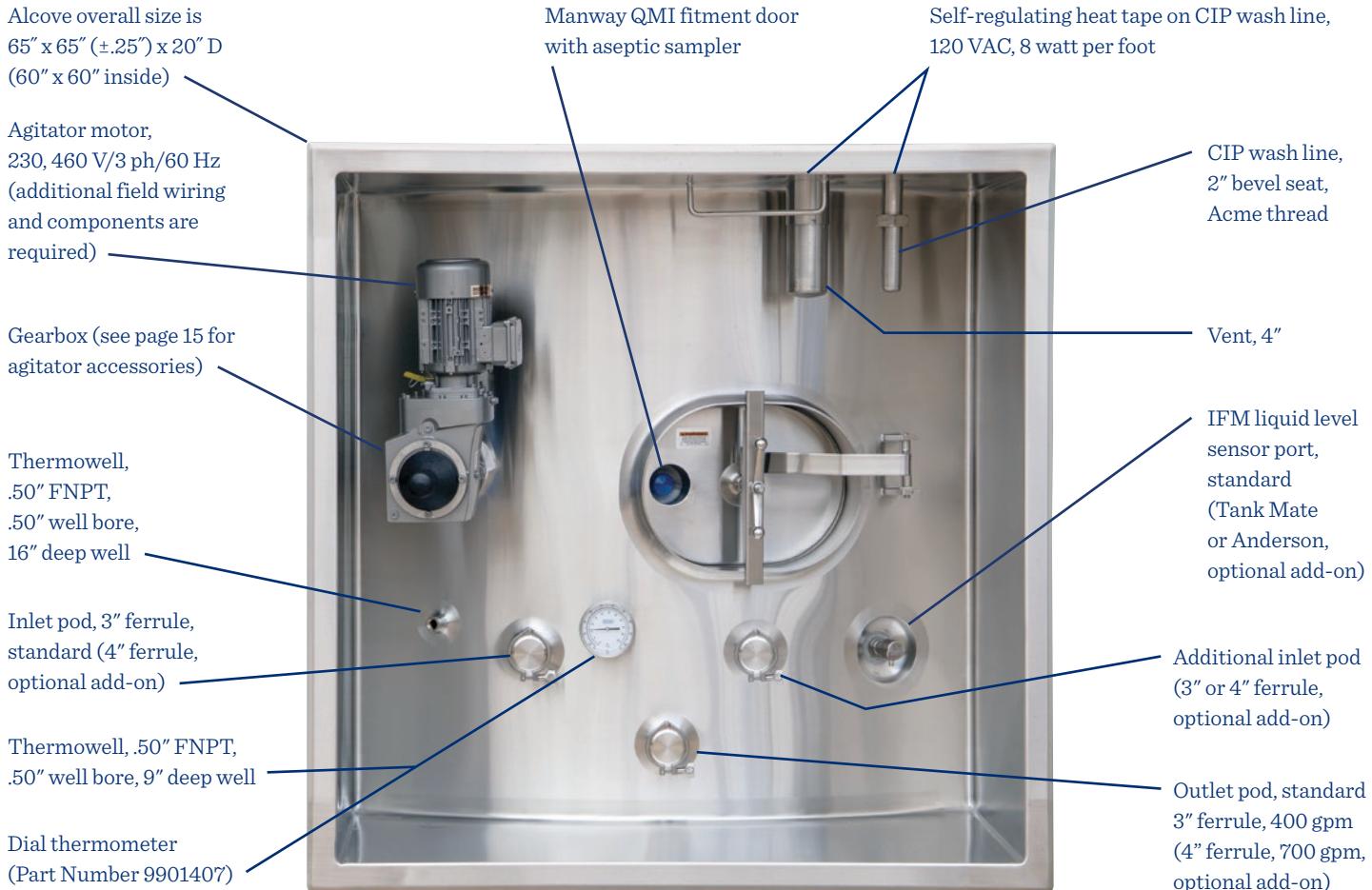
# A Closer Look



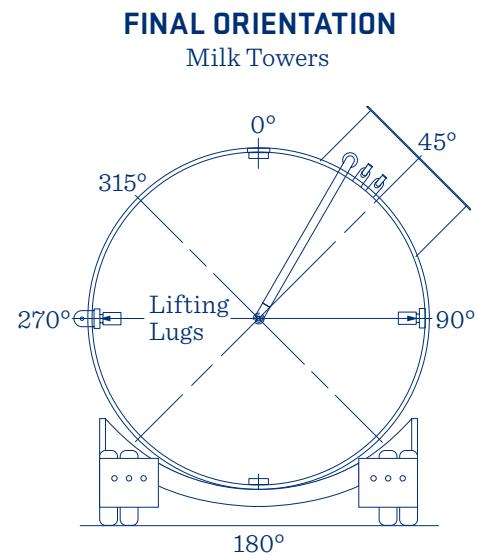
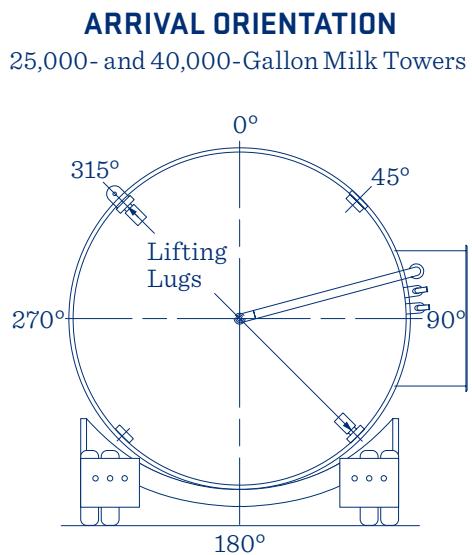
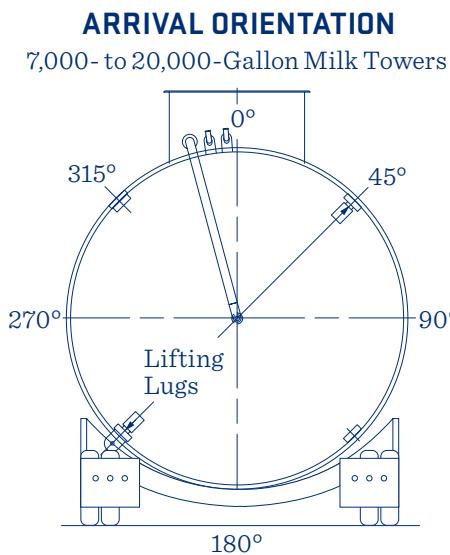
# Options to Customize Your Milk Tower

Description	Part Number	List Price
<b>MILK TOWER MODEL</b>		
7,000-gallon Milk Tower	—	
10,000-gallon Milk Tower	—	
15,000-gallon Milk Tower	—	
20,000-gallon Milk Tower	—	
25,000-gallon Milk Tower	—	
30,000-gallon Milk Tower	—	
35,000-gallon Milk Tower	—	
40,000-gallon Milk Tower	—	
<b>MILK TOWER ADD-ONS</b>		
<i>Optional Add-Ons (Specify at time of order entry.)</i>		
Insulated alcove	—	
Tank Mate level sensor port (IFM standard)	—	
Anderson level sensor port (IFM standard)	—	
Upgrade 3" tri-clamp inlet to 4" tri-clamp inlet	—	
Upgrade 3" tri-clamp outlet to 4" tri-clamp outlet	—	
Additional inlet, 3" or 4" tri-clamp	—	
Refrigerant type, glycol or refrigeration	—	
<b>MILK TOWER REFERENCE ITEMS</b>		
<b>Alcove Accessories</b>		
CIP attachment	9854099	
CIP door	9805655	
Disc-type outlet valve, 3" tri-clamp x 3" Acme	8825528	
QMI aseptic sampler	9827994	
<b>Agitator Accessories</b>		
Agitator shaft seal kit; includes two O-rings, stainless steel spring retainer, and neoprene seal retainer with silicon carbide seal insert	9850416	
Agitator shaft seal spring	9825993	
Agitator locking knob	9806423	
Agitator spacer for locking knob	9826757	
Agitator shaft pin, .25" diameter, 1.625" length	9826758	
Prop and shaft assembly, 23.5" diameter (use with 7,000-, and 20,000- to 40,000-gallon Milk Tower)	9851156	
Prop and shaft assembly, 27" diameter (use with 10,000- and 15,000-gallon Milk Tower)	9851163	
Gear motor, one horsepower (use with 7,000-gallon Milk Tower)	9855175	
Gear motor, two horsepower (use with 10,000- to 15,000-gallon Milk Tower)	9855176	
Gear motor, three horsepower (use with 20,000- to 40,000-gallon Milk Tower)	9855177	

# Milk Tower Alcove Details



## Milk Tower Arrival Orientation

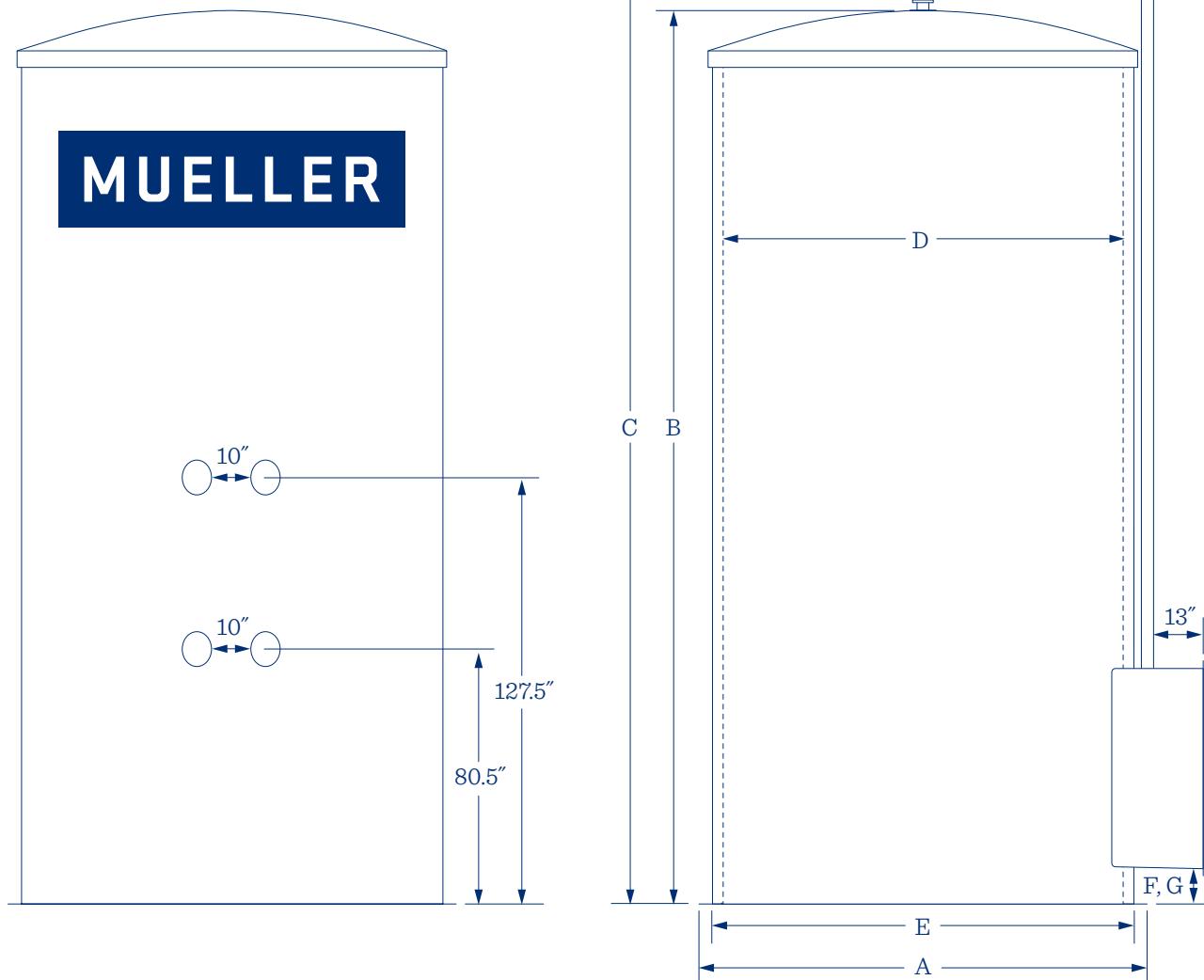


# Milk Tower Dimensions and Weight

STANDARD DIMENSIONS CHART FOR MILK TOWERS BUILT AFTER FEBRUARY 1, 2019 <sup>1</sup>								
Capacity (gal)	Base Ring A (in)	Height to Top Cap B (in)	Height to Top CIP C (in)	Inner Shell D (in)	Outer Shell E (in)	Height to Alcove F (in)	Height to Insulated Alcove G (in)	Weight (lb)
7,000	129.75	206.75	222.75	120	126	10	8.5	7,931
10,000	129.75	266.75	282.75	120	126	10	8.5	8,625
15,000	129.75	364.75	380.75	120	126	10	8.5	9,960
20,000	129.75	467.75	483.75	120	126	10	8.5	11,422
25,000	149.75	448.50	464.50	140	146	10	8.5	15,025
30,000	149.75	508.50	524.50	140	146	10	8.5	15,835
35,000	149.75	598.50	614.50	140	146	10	8.5	18,080
40,000	149.75	658.50	674.50	140	146	10	8.5	18,890

<sup>1</sup> Dimensions are not to be used for construction. Please refer to the Milk Tower Installation and Operation Manual (Part No. 8828787) for installation guidance, including proper procedures and necessary technical specifications.

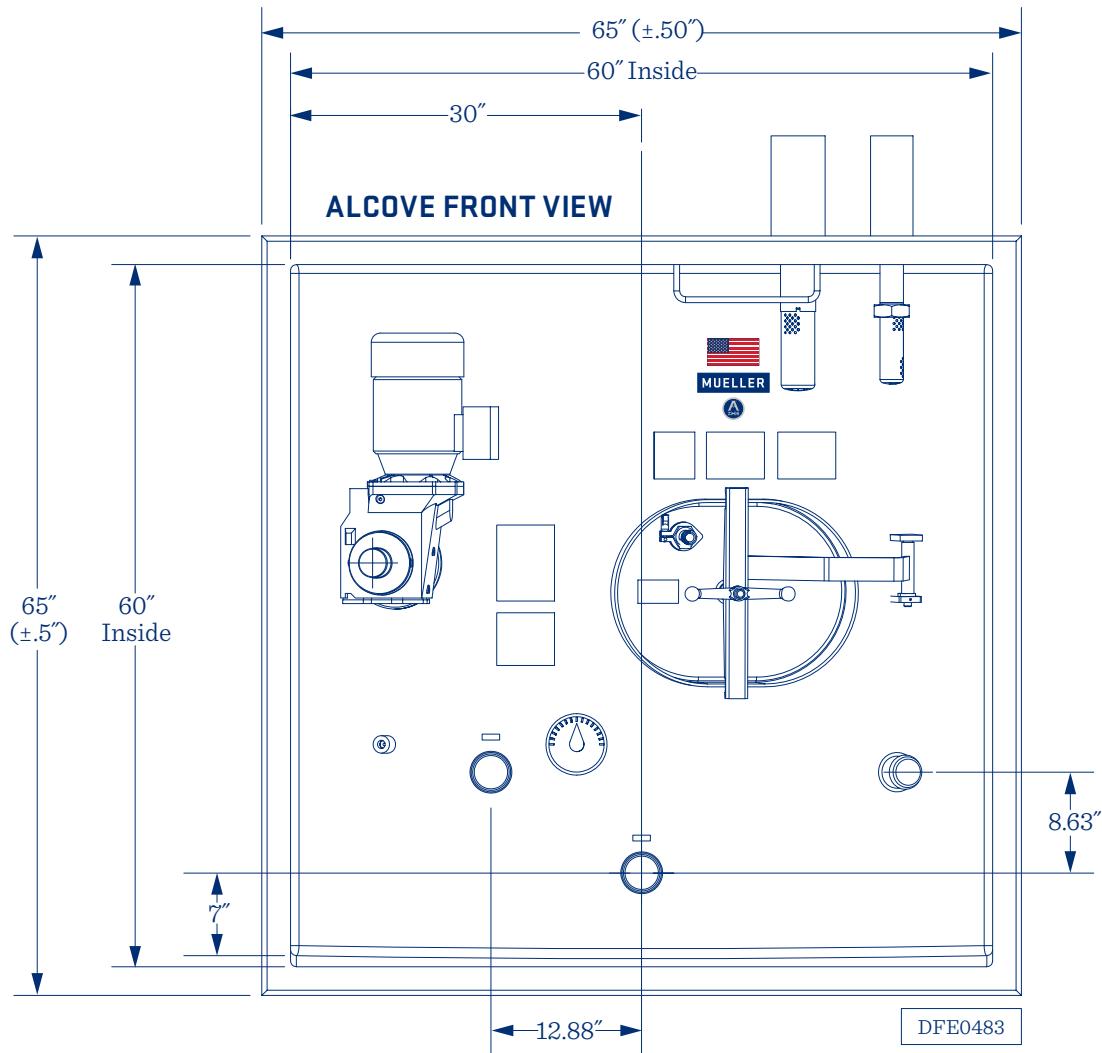
## Milk Tower Dimensions



# Milk Tower Evaporator Capacity and Coverage

MILK VOLUME REQUIRED TO COVER EACH EVAPORATOR AND AGITATOR									
Capacity	Bottom Evaporator			Top Evaporator			Agitator		
	Gallons	Pounds	Liters	Gallons	Pounds	Liters	Gallons	Pounds	Liters
7,000	2,775	23,865	10,505	5,065	43,559	19,173	2,180	18,748	8,252
10,000	2,775	23,865	10,505	5,065	43,559	19,173	2,180	18,748	8,252
15,000	2,775	23,865	10,505	5,065	43,559	19,173	2,180	18,748	8,252
20,000	2,775	23,865	10,505	5,065	43,559	19,173	2,180	18,748	8,252
25,000	3,725	32,035	14,101	6,850	58,910	25,930	2,730	23,478	10,334
30,000	3,725	32,035	14,101	6,850	58,910	25,930	2,730	23,478	10,334
35,000	3,725	32,035	14,101	6,850	58,910	25,930	2,730	23,478	10,334
40,000	3,725	32,035	14,101	6,850	58,910	25,930	2,730	23,478	10,334

## Milk Tower Standard Alcove Dimensions



# HiPerForm® *plus* Control

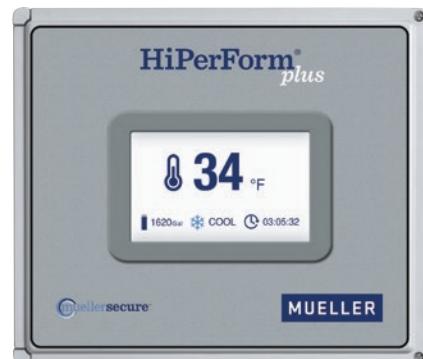
*Featuring on-farm data with  
MuellerSecure™ technology!*

## STANDARD FEATURES

- Built-in robotic interface (I/O expansion is required for robotic installations).
- Real-time tank temperature and volume data via the MuellerSecure™ dashboard.
- Fully programmable wash and cooling control.
- Seven-inch touch-screen interface is available in multiple languages to meet the needs of global markets.
- Selectable drain valve type: water-operated, normally open, or normally closed.
- Cooling and wash time delay.
- Volume indicator.\*
- Automatic programmable interval agitation.
- Retrofit any milk cooler with program options.
- Control output voltage is 24 VAC or dry switch closure.
- Electronic time and temperature recording.
- Wall-mounted, milk cooler “OHF” model-mounted, and Milk Tower-mounted options available.
- Automatically starts cooling when installed with the optional IFM level transducer.
- Built-in troubleshooting test program.
- Download historical reports to aid in system diagnostics.
- Allows remote monitoring by dairy producers, dairy processors, sanitarians, and maintenance technicians.

\*When a level sensor is installed, cooling is controlled based on the liquid level in the tank.

 **muellersecure**™



*Chemical dosing box options.*

# HiPerForm *plus* Control Featuring MuellerSecure

HIPERFORM CONTROL		
Description	Part Number	List Price
<b>HiPerForm <i>plus</i> for Milk Coolers and Milk Towers</b>		
HiPerForm <i>plus</i> <sup>1</sup> (level sensor sold separately; see HiPerForm <i>plus</i> add-on section, below)	8828420	
<b>“OHF” Milk Cooler HiPerForm <i>plus</i> Tank-Mount Package</b>		
HiPerForm <i>plus</i> “OHF” field-install assembly <sup>2</sup> (use with internal measuring stick)	8828479	
HiPerForm <i>plus</i> “OHF” field-install assembly <sup>2</sup> (use with external sight glass)	8828482	
HiPerForm <i>plus</i> “OHF” field-install assembly <sup>2</sup> , 50 Hz, Japanese (use with internal measuring stick)	8828481	
HiPerForm <i>plus</i> “OHF” field-install assembly <sup>2</sup> , 50 Hz, Japanese (use with external sight glass)	8828484	
<b>Milk Cooler and Milk Tower™ Chemical Dosing Boxes</b>		
Water Works box; includes 24 V coils, supply and discharge water hoses, and accessories	8825487	
High-Volume Water Works box; includes 24 V coils, supply and discharge water hoses, and accessories	8824646	
Auto-dosing box only, 240 V signal; includes peristaltic pumps, 30' of .25" ID PVC chemical hose (one each blue, red, and clear), three 48" dip tubes, and mounting components (mixing manifold and high hazard backflow preventer must be supplied by others)	8829004	
Description	Part Number	
<b>HiPerForm <i>plus</i> Add-Ons</b>		
Milk cooler level transducer without digital display installation kit; includes IFM transducer, 0–100" column, 15' sensor cable, O-ring, atmospheric vent, and 20' of vent hose	8828617	
Milk Tower, 7,000- to 15,000-gallon, level transducer with digital display installation kit; includes IFM transducer, 0–399" column, 15' data cable, O-ring, and atmospheric vent	8828772	
Milk Tower, 20,000- to 40,000-gallon, level transducer with digital display installation kit; includes IFM transducer, 0–800" column, 15' data cable, O-ring, atmospheric vent, and 20' of vent hose	8828773	
1.5" Tri-clamp to level transducer connector	8828286	
2" Tri-clamp to level transducer connector	8828285	
Sanitary escutcheon kit for field-installed level transducer <sup>3</sup>	8828296	
Robotic I/O expansion kit; includes 50' of 22 AWG, 3-conductor twisted pair with shield	8828600	
Weld-in level sensor mount <sup>3</sup> (for field install of IFM level sensor)	8828253	
Heat sink for weld-in sensor mount <sup>3</sup> (for field install of IFM level sensor)	8828256	
Wire, 22 AWG, 3-conductor twisted pair with shield, sold by 500-foot spool (used between E-Star condensing units and the HiPerForm <i>plus</i> for MuellerSecure™ data logging)	8829425	
Digital temperature sensor, for an additional two temperature inputs on HiPerForm <i>plus</i> , each	8825485	
<b>Anderson to IFM</b>		
Milk Tower, 7,000- to 15,000-gallon, level transducer without display, 0–400" column (for use with part number 8828752, level transducer adaptor only)	8828750	
Milk Tower, 20,000- to 40,000-gallon, level transducer without display, 0–800" column (for use with part number 8828752, level transducer adaptor only)	8828751	
Level transducer well adaptor, Anderson to IFM kit with seals (requires part number 8828750)	8828752	

<sup>1</sup> Language is selected on the user interface (English, Japanese, French, Dutch, Spanish, or German).

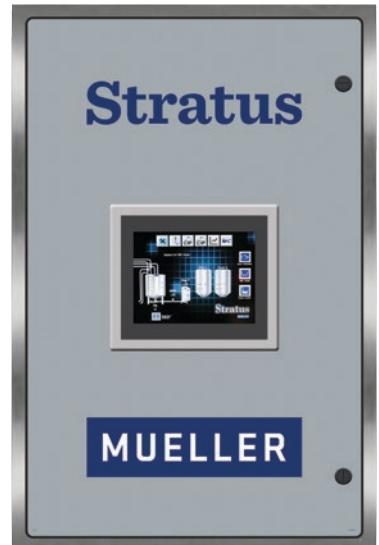
<sup>2</sup> Outlet valve assembly not included. See the milk cooler options and add-ons on pages 9 and 10 for outlet valve and accessories selection.

<sup>3</sup> Level port accessories (for existing milk coolers). Level ports are now standard on all milk coolers. Please see the milk cooler section for details.

# Stratus Multi-Tank Control

## STANDARD FEATURES

- Cooling and washing control.
- Parlor wash control.
- Electronic time and temperature recorder.
- Volume indicator.
- Touch screen milk hauler interface.
- Built-in transfer control from milk/wash vat through plate cooler.



STRATUS MULTI-TANK CONTROL			
Description	Part Number	List Price	
Stratus control assembly (use with one, two, three, or four milk coolers or Milk Towers)	8829432		
Stratus Accessories			
Level transducer with digital display (milk/wash vat, 0-40" column)	8828281		
Level transducer with digital display (milk cooler, 0-100" column)	8828283		
Level transducer with digital display (7,000- to 15,000-gallon Milk Tower, 0-399" column)	8828284		
Level transducer with digital display (20,000- to 40,000-gallon Milk Tower, 0-800" column)	8828468		
Vent cover kit for level transducer (one required for each level transducer)	8828637		
Temperature transmitter without digital display	8828469		
Temperature sensor	8828291		
Compression adapter for temperature transmitter/sensor combo (Milk Tower)	8828295		
Sensor cable with sensor connection on one end (use with temperature sensors and level transducer, 15 feet)	8828257		
Sensor cable, sensor connection on one end, 90° connection (use with temperature sensors and level transducer, 15 feet)	8828331		
Shielded cable, 328-foot spool, 20/4 (use with temperature and level sensors, no connectors)	8828307		
Temperature sensor with digital display 1.5" tri-clamp (milk temperature leaving plate cooler)	8828290		
Temperature sensor with digital display 2" tri-clamp (milk temperature leaving plate cooler)	8828289		
Variable frequency drive, 5 horsepower, 230 V (milk transfer pump, variable flow control for milk leaving milk/wash vat)	8828287		
Variable frequency drive, 5 horsepower, 480 V (milk transfer pump, variable flow control for milk leaving milk/wash vat)	8828288		
Flow meter, 3-A, 2" x 2" tri-clamp connection	8828134		

# Stratus Multi-Tank Control

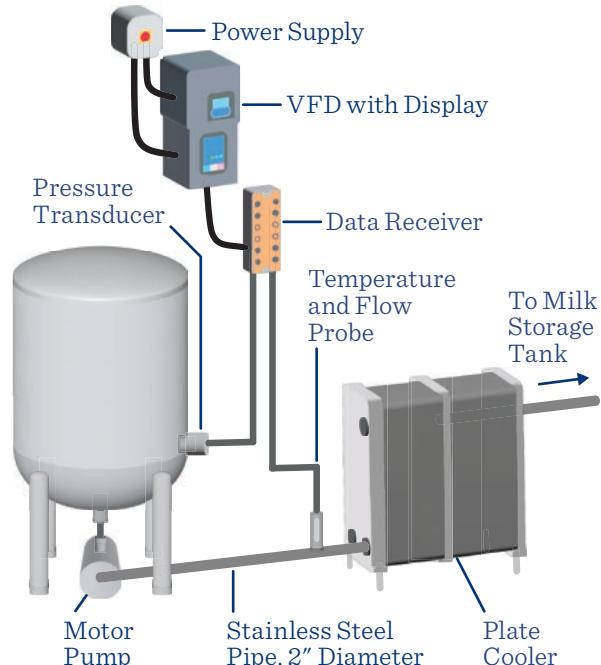
STRATUS MULTI-TANK CONTROL		
Description	Part Number	
<b>Level Port Accessories (for Existing Milk Coolers or Silos)<sup>1</sup></b>		
Weld-in level sensor mount	8828347	
Heat sink for weld-in sensor mount	8828256	
Sanitary plug for weld-in sensor mount	8828252	
Sanitary escutcheon kit for field-installed level transducer	8828296	
Tri-clamp to level transducer connector (1.5" tri-clamp)	8828286	
Tri-clamp to level transducer connector (2" tri-clamp)	8828285	
<b>Stratus Add-Ons</b>		
Level transducer well adaptor, Anderson to IFM kit with seals (requires part number 8828750 for use with 7,000- to 15,000-gallon Milk Towers or part number 8828751 for use with 20,000- to 40,000-gallon Milk Towers)	8828752	
<b>Anderson to IFM</b>		
Milk Tower, 7,000- to 15,000-gallon, level transducer without display, 0-400" column (for use with part number 8828752, level transducer adaptor only)	8828750	
Milk Tower, 20,000- to 40,000-gallon, level transducer without display, 0-800" column (for use with part number 8828752, level transducer adaptor only)	8828751	
Level transducer well adaptor, Anderson to IFM kit with seals (requires part number 8828750)	8828752	

<sup>1</sup> IFM level ports are standard on all new milk coolers and Milk Towers. See the milk cooler and Milk Tower sections for details.

# Milk Flow Control

## STANDARD FEATURES

- Level sensor kit.
- Variable frequency drive and PLC.
- Steadies milk flow from the milk wash vat through the plate cooler.
- Removes the peaks and valleys in the milk temperature.



MILK FLOW DEVICE		
Description	Part Number	List Price
Milk flow control system, 230 V, three phase	8829292	
Milk flow control system, 460 V, three phase	8829293	

# E-Star® HiPerForm Condensing Unit

**Designed specifically for energy-efficient milk cooling!**

Paul Mueller Company's E-Star HiPerForm condensing units feature electronic valve control (EVC) for constant, precise system adjustments to fine-tune refrigerant flow to your milk cooler. A great solution for both traditional and robotic dairy operations, each E-Star HiPerForm unit houses a Copeland Scroll compressor to handle the large temperature changes required to cool milk. When used with a HiPerForm **plus** control, MuellerSecure technology reports real-time and historical data to alert you to any potential cooling issues.



*Bronz-Glow coated condensers are standard on all E-Star condensing units.*

E-STAR HIPERFORM AIR-COOLED CONDENSING UNIT <sup>1</sup> WITH ELECTRONIC VALVE CONTROL   3.5 AND 5 HORSEPOWER <sup>1</sup>						
Size (HP)	Model Number	Electrical Characteristics 60 Cycle (Hz)	R-507 Part Number	List Price	R-448 <sup>4</sup> Part Number	List Price
<b>Condensing Unit with Electronic Valve Control (EVC)</b>						
3.5	OHSE-A351E	208-230/60/1	8828399		8828650	
3.5	OHSE-A353E	208-230/60/3	8828400		8828651	
3.5	OHSE-A354E	460/60/3	8828401		8828652	
5	OHSE-A51E	208-230/60/1	8828402		8828653	
5	OHSE-A53E	208-230/60/3	8828403		8828654	
5	OHSE-A534E	460/60/3	8828404		8828655	
5	OHSE-A535E	575/60/3 <sup>3</sup>	8828405		8828656	
<b>Condensing Unit with EVC and Digital Scroll</b>						
5	OHSE-A51ED	208-230/60/1	8828406		8828657	
5	OHSE-A53ED	208-230/60/3	8828407		8828658	
5	OHSE-A534ED	460/60/3	8828408		8828659	
5	OHSE-A535ED	575/60/3 <sup>3</sup>	8828409		8828660	

E-STAR HIPERFORM AIR-COOLED CONDENSING UNIT <sup>2</sup> WITH ELECTRONIC VALVE CONTROL   7.5, 9, AND 15 HORSEPOWER <sup>2</sup>						
Size (HP)	Model Number	Electrical Characteristics 60 Cycle (Hz)	R-507 Part Number	List Price	R-448 <sup>4</sup> Part Number	List Price
7.5	OHSE-A753E	208-230/60/3	8828487		8828683	
7.5	OHSE-A754E	460/60/3	8828488		8828684	
7.5	OHSE-A7535E	575/60/3 <sup>3</sup>	8828489		8828685	
9	OHSE-A93E	208-230/60/3	8828490		8828686	
9	OHSE-A94E	460/60/3	8828491		8828687	
9	OHSE-A935E	575/60/3 <sup>3</sup>	8828492		8828688	
15	OHSE-A153E	208-230/60/3	—		8829872	
15	OHSE-A154E	460/60/3	—		8829874	
15	OHSE-A154E	575/60/3	—		8829875	

<sup>1</sup> Includes a two-year limited compressor warranty.

<sup>2</sup> Includes a one-year limited compressor warranty.

<sup>3</sup> 230 volt/60 hertz fan motor circuit.

<sup>4</sup> Units designed for operation with R-448a will have an "HFO" designation in the model number.

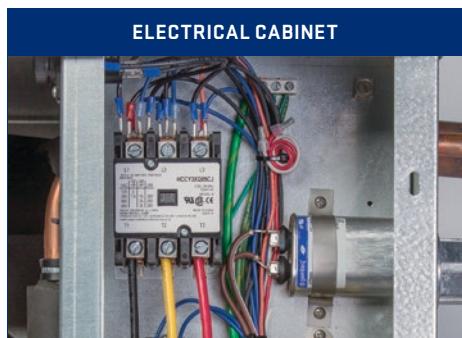
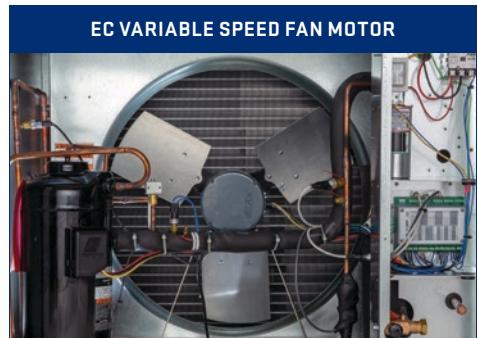
<sup>5</sup> Product dimensions are without shipping box.

# A Closer Look

## E-Star HiPerForm Digital Condensing Unit with EVC | 5 HP



## E-Star HiPerForm Condensing Unit with EVC | 9 HP



# E-Star HiPerForm Compressor Capacity Ratings

E-STAR HIPERFORM CONDENSING UNIT WITH EVC COMPRESSOR BTU/H CAPACITY RATINGS CHART   R-507 REFRIGERANT						
Size (HP)	Electrical Characteristics 60 Cycle (Hz)	E-Star Part Number	Compressor Model Number	Compressor Part Number	Btu/hr <sup>1</sup>	Btu/hr <sup>2</sup>
Single Phase						
3.5	208-230/60/1	8828399	ZB26KCE-PFV-230	8825340	41,403	34,100
5 <sup>3</sup>	208-230/60/1	8828406	ZBD38KCE-PFV-250	8827485	59,523	48,800
5	208-230/60/1	8828402	ZB38KCE-PFV-250	8825337	59,523	47,800
Three Phase						
3.5	208-230/60/3	8828400	ZB26KCE-TF5-230	8825341	41,192	33,900
3.5	460/60/3	8828401	ZB26KCE-TFD-230	8823872	41,192	33,900
5 <sup>3</sup>	208-230/60/3	8828407	ZBD38KCE-TF5-250	8827410	58,900	48,500
5 <sup>3</sup>	460/60/3	8828408	ZBD38KCE-TFD-250	8827411	58,900	48,500
5 <sup>3</sup>	575/60/3 <sup>4</sup>	8828409	ZBD38KCE-TFE-265	8827497	58,900	48,500
5	208-230/60/3	8828403	ZB38KCE-TF5-250	8825338	58,900	47,800
5	460/60/3	8828404	ZB38KCE-TFD-250	8825336	58,900	47,800
5	575/60/3 <sup>4</sup>	8828405	ZB38KCE-TFE-250	8826966	58,900	47,800
7.5	208-230/60/3	8828487	ZB58K5E-TFC-260	8827021	91,549	75,300
7.5	460/60/3	8828488	ZB58KCE-TFD-260	8827022	91,549	75,300
7.5	575/60/3 <sup>4</sup>	8828489	ZB58K5E-TFE-260	8827821	91,549	75,300
9	208-230/60/3	8828490	ZB66K5E-TFC-260	8827023	103,664	85,200
9	460/60/3	8828491	ZB66K5E-TFD-260	8827024	103,664	85,200
9	575/60/3 <sup>4</sup>	8828492	ZB66K5E-TFE-260	8827822	103,664	85,200

For electrical installation details, please reference the installation and operation manual appropriate for your E-star HiPerForm condensing unit model number.

<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 condensing 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 condensing units to chiller evaporators.

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

<sup>4</sup> 230 V/60 Hz fan motor circuit.

# E-Star HiPerForm Compressor Capacity Ratings

E-STAR HIPERFORM CONDENSING UNIT WITH EVC COMPRESSOR BTU/H CAPACITY RATINGS CHART   R-448A REFRIGERANT						
Size (HP)	Electrical Characteristics 60 Cycle (Hz)	E-Star Part Number	Compressor Model Number	Compressor Part Number	Btu/hr <sup>1</sup>	Btu/hr <sup>2</sup>
<b>Single Phase</b>						
3.5	208-230/60/1	8828650	ZB26KCE-PFV-230	8825340	35,400	28,500
5 <sup>3</sup>	208-230/60/1	8828657	ZBD38KCE-PFV-250	8827485	53,000	42,700
5	208-230/60/1	8828653	ZB38KCE-PFV-250	8825337	53,000	42,700
<b>Three Phase</b>						
3.5	208-230/60/3	8828651	ZB26KCE-TF5-230	8825341	35,400	28,500
3.5	460/60/3	8828652	ZB26KCE-TFD-230	8823872	35,400	28,500
5 <sup>3</sup>	208-230/60/3	8828658	ZBD38KCE-TF5-250	8827410	53,000	42,700
5 <sup>3</sup>	460/60/3	8828659	ZBD38KCE-TFD-250	8827411	53,000	42,700
5 <sup>3</sup>	575/60/3 <sup>4</sup>	8828660	ZBD38KCE-TFE-265	8827497	53,000	42,700
5	208-230/60/3	8828654	ZB38KCE-TF5-250	8825338	53,000	42,700
5	460/60/3	8828655	ZB38KCE-TFD-250	8825336	53,000	42,700
5	575/60/3 <sup>4</sup>	8828656	ZB38KCE-TFE-250	8826966	53,000	42,700
7.5	208-230/60/3	8828683	ZB58K5E-TFC-260	8827021	78,000	63,000
7.5	460/60/3	8828684	ZB58KCE-TFD-260	8827022	78,000	63,000
7.5	575/60/3 <sup>4</sup>	8828685	ZB58K5E-TFE-260	8827821	78,000	63,000
9	208-230/60/3	8828686	ZB66K5E-TFC-260	8827023	89,500	72,000
9	460/60/3	8828687	ZB66K5E-TFD-260	8827024	89,500	72,000
9	575/60/3 <sup>4</sup>	8828688	ZB66K5E-TFE-260	8827822	89,500	72,000
15	208-230/60/3	8829872	ZB114K5E-TWC-260	8830065	—	130,000
15	460/60/3	8829874	ZB114K5E-TFD-260	8829678	—	130,000
15	575/60/3 <sup>4</sup>	8829875	—	—	—	130,000

For electrical installation details, please reference the installation and operation manual appropriate for your E-star HiPerForm condensing unit model number.

<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 condensing 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 condensing units to chiller evaporators.

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

<sup>4</sup> 230 V/60 Hz fan motor circuit.

# E-Star HiPerForm Technical Specifications

E-STAR HIPERFORM CONDENSING UNIT   R-507 LINE SIZING				
Compressor Size (HP)	Liquid Line		Suction Line	
	30 to 50 Feet	50 to 100 Feet	30 to 50 Feet	50 to 100 Feet
3.5	.50" OD	.50" OD	1.125" OD	1.125" OD
5	.50" OD	.625" OD	1.125" OD	1.375" OD
7.5	.625" OD	.625" OD	1.375" OD	1.625" OD
9	.625" OD	.875" OD	1.625" OD	2.125" OD

E-STAR HIPERFORM CONDENSING UNIT   R-448A LINE SIZING				
Compressor Size (HP)	Liquid Line		Suction Line	
	30 to 50 Feet	50 to 100 Feet	30 to 50 Feet	50 to 100 Feet
3.5	.50" OD	.50" OD	.875" OD	1.125" OD
5	.50" OD	.625" OD	1.125" OD	1.125" OD
7.5	.625" OD	.625" OD	1.375" OD	1.375" OD
9	.625" OD	.625" OD	1.375" OD	1.625" OD
15	.875" OD	.875" OD	2.125" OD	2.375" OD

E-STAR HIPERFORM CONDENSING UNIT CONNECTION SIZING				DISCHARGE LINE SIZING FRE-HEATER
Compressor Size (HP)	Liquid Line	Suction Line	Fre-Heater® Discharge Line	Equivalent Length of Pipe
				0 to 50 Feet
3.5	.50" OD	.875" OD	.50" OD	.875" OD*
5	.625" OD	.875" OD	.50" OD	.875" OD
7.5	.625" OD	1.625" OD	1.125" OD	1.125" OD
9	.625" OD	1.625" OD	1.125" OD	1.125" OD
15	.875" OD	2.125" OD	1.375" OD	1.375" OD

\*For 3.5 horsepower E-Star HiPerForm condensing units using R-448a, discharge line sizing of .625" OD is acceptable.

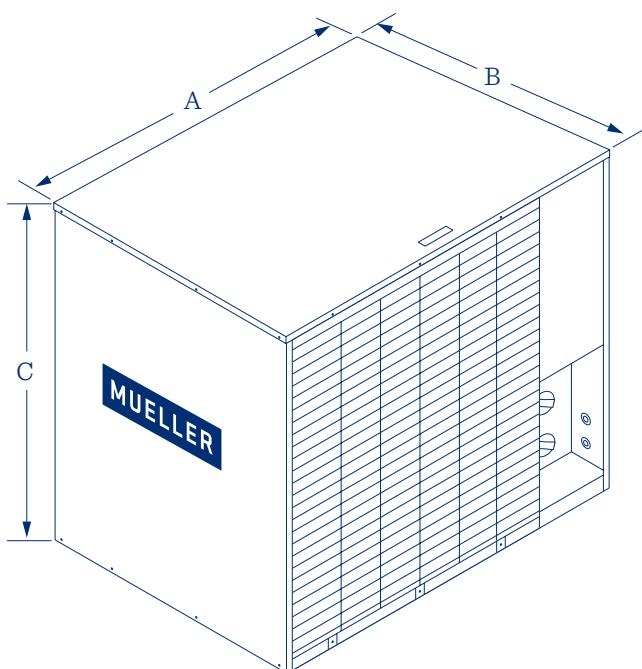


# E-Star HiPerForm Dimensions and Weight

E-STAR HIPERFORM CONDENSING UNIT DIMENSIONS AND WEIGHT				
Compressor Size (HP)	Actual Dimensions			Approximate Weight (lb)
	Width A (in)	Depth B (in)	Height C (in)	
3.5	40.13	30.38	31.50	305
5	40.13	30.38	31.50	305
7.5	46.50	33.50	42.50	495
9	46.50	33.50	42.50	495
15	65	48	70	890

E-STAR HIPERFORM CONDENSING UNIT SHIPPING DIMENSIONS AND WEIGHT				
Compressor Size (HP)	Shipping Dimensions			Approximate Shipping Weight (lb)
	Width D (in)	Depth E (in)	Height F (in)	
3.5	42	35	36	350
5	42	35	36	350
7.5	55	38	46	543
9	55	38	46	543
15	74	54	84	1,150

## E-Star HiPerForm Dimensions



## Shipping Dimensions



# Accu-Therm® Plate Cooler

## IMPORTANT!

Before placing an order, contact your Regional Sales Manager with your specific data to confirm correct plate cooler sizing.



ACCU-THERM WALL-MOUNT PLATE COOLER									
Model Number	Number of Plates	Number of Passes				Part Number	List Price		
		Well Water Section		Chilled Water Section					
		Milk	Water	Milk	Glycol				
Single Pass									
AT4DSW-31	31	1	1	-	-	9816136			
Dual Pass									
AT4DSWD-61	61	2	2	-	-	9816138			
AT10DSWD-40	40	2	2	-	-	9816145			
Multi-Pass, Multi-Duty <sup>1</sup>									
AT4DSWM-70	70	1	1	3	1	9403438			
AT10DSWM-50	50	1	1	2	1	9816146			
Multi-Pass <sup>2</sup>									
AT10DSWD-52	52	-	-	2	1	9861033			
AT10DSWD-52	52	-	-	4	1	9405693			
ACCU-THERM FLOOR-MOUNT PLATE COOLER									
Model Number	Number of Plates	Number of Passes				Part Number	List Price		
		Well Water		Chilled Water 1		Chilled Water 2			
		Milk	Water	Milk	Glycol	Milk	Glycol		
Multi-Pass <sup>2</sup>									
AT20DSF-48	48	4	4	-	-	-	-	9830605	
AT20DSF-52	52	-	-	2	1	-	-	9405616	
AT20DSF-104	104	-	-	4	1	-	-	9405761	
Multi-Pass, Multi-Duty <sup>1</sup>									
AT10DSFM-91	91	1	1	3	1	-	-	9816148	
AT20DSFM-91	91	1	1	5	1	-	-	9831128	
AT10DSFM-132	132	2	1	2	1	-	-	9405407	
AT20DSFM-130	130	2	1	4	1	-	-	9831129	
Multi-Pass, Multi-Duty <sup>1</sup> , Three Section									
AT20DSFMP-187	187	2	2	3	1	3	1	9403117	
High Efficiency, Multi-Pass, Multi-Duty <sup>1</sup> , Ported Terminal									
AT4DSFMP-119	119	3	3	1	1	-	-	9404352	
AT10DSFMP-96	96	2	2	2	1	-	-	9404255	
AT20DSFMP-76	76	2	2	2	1	-	-	9830581	
AT20DSFMP-96	96	2	2	4	1	-	-	9831117	
AT20DSFMP-174	174	2	2	6	1	-	-	9402443	
AT20DSBMP-270	270	4	4	4	1	-	-	9403498	
AT40DSBMP-199	199	2	2	2	2	-	-	9405163	

<sup>1</sup> For use with well water and chilled water.

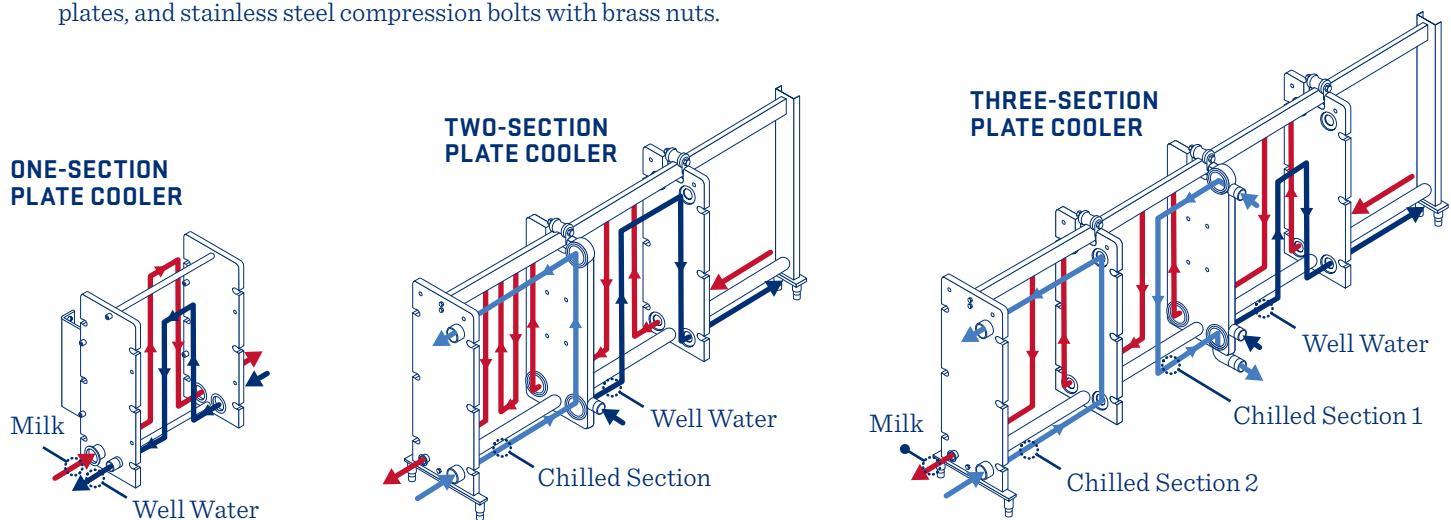
<sup>2</sup> For use with either well or chilled water.

# Accu-Therm Technical Specifications

ACCU-THERM PLATE COOLER TECHNICAL SPECIFICATIONS								
Model Number	Connections				Dimensions			Approx. Shipping Weight (lb)
	Milk Tri-Clamp Ferrule (in)	Well Water MPT (in)	Chilled Water 1 MPT (in)	Chilled Water 2 MPT (in)	Length (in)	Width (in)	Height (in)	
AT4DSW-31	1.5	1	–	–	12	7.5	23	95
AT4DSWD-61	1.5	1	–	–	12	7.5	23	120
AT10DSWD-40	2	2	–	–	16	11	33	263
AT4DSWM-70	1.5	1	1	–	12	7.5	23	132
AT10DSWM-50	2	2	2	–	16	11	33	284
AT10DSWD-52	2	–	2	–	16	11	33	287
AT20DSF-48	2	2	–	–	33	21	49	1,152
AT20DSF-52	2	–	2	–	33	21	49	1,200
AT20DSF-104	2	–	2	–	39	21	49	1,800
AT10DSFM-91	2	2	2	–	32	21	39	530
AT20DSFM-91	2	2	3	–	52	21	49	1,407
AT10DSFM-132	2	2	2	–	38	21	39	1,553
AT20DSFM-130	2	2	3	–	52	21	49	1,605
AT20DSFMP-187	2	2	3	2	57	21	49	1,529
AT4DSFMP-119	1.5	1	1	–	30	12	30	244
AT10DSFMP-96	2	2	2	–	32	21	39	600
AT20DSFMP-76	2	2	3	–	39	21	49	1,485
AT20DSFMP-96	2	2	3	–	39	21	49	1,547
AT20DSFMP-174	2	2	3	–	52	21	49	1,788
AT20DSBMP-270	2	2	3	–	69	21	52	2,063
AT40DSBMP-199	3	2	3	–	72	28	83	3,190

## STANDARD FEATURES

- Uses your existing water supply to precool milk.
- Complies with 3A sanitary standards.
- Constructed of 304 stainless steel end frames, 316 stainless steel plates, and stainless steel compression bolts with brass nuts.



# Model “D” and “DE” Fre-Heater®

*Harvest wasted heat energy and enhance  
profitability by reducing your hot water costs!*

## STANDARD FEATURES

- Complies with cCSA<sup>US</sup> and NRTL standards.
- CE-certified models available.
- Mueller Temp-Plate heat transfer surface cools super-heated refrigerant from the milk cooling condensing units and harvests the system's wasted heat energy.
- Rust-resistant stainless steel outer jacket requires virtually no maintenance.
- Industrial-grade, fully insulated, glass-lined storage tank assures minimal heat loss and long-term reliability.
- Factory-installed anodes provide superior galvanic-corrosion protection for the water storage tank. Model D-120 has two anodes and models D-50 and D-80 each have one anode.
- Five-year limited warranty protects your purchase and ensures quality.
- Available in three sizes.



AN AMTROL EXPANSION TANK\*  
IS INCLUDED WITH EVERY  
FRE-HEATER PURCHASE.



\*An Amtrol expansion tank (part number 8805175) must be used for warranty.

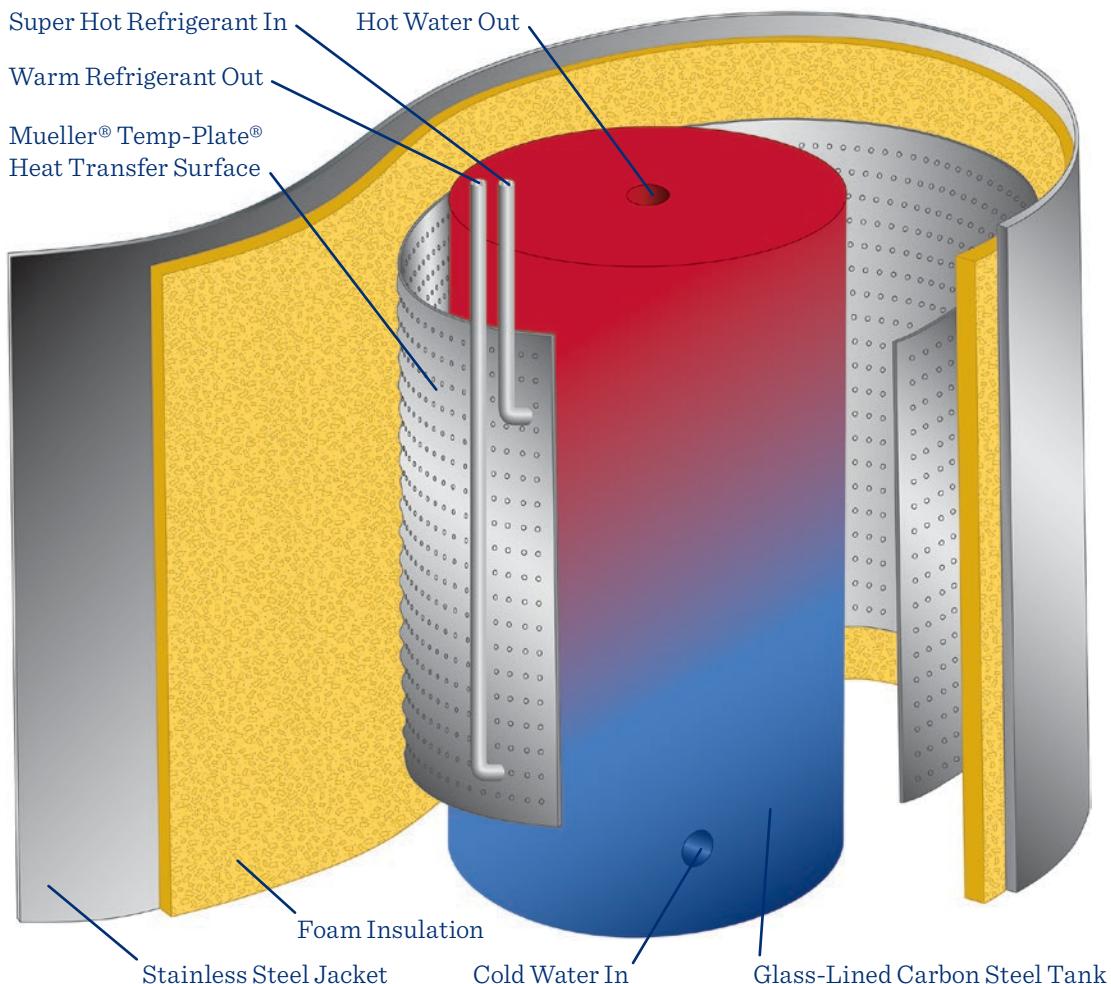
# Model "D" and "DE" Fre-Heater

MODEL "D" AND "DE" FRE-HEATER HEAT RECOVERY UNIT									
Model Number <sup>2</sup>	Number of Refrigeration Circuits	Refrigeration Connection Size	Refrigeration Per Circuit Capacity <sup>1</sup> (Btuuh)	Dimensions		Approximate Shipping Weight (lb)	Shipping Dimensions (in)	Part Number	List Price
				Height (in)	Diameter (in)				
D-50	1	.625" OD	6,000–48,000	53.88	21.75	234	35 x 35 x 79	8828038	
D2-50	2	.625" OD	6,000–48,000	53.88	21.75	234	35 x 35 x 79	8828037	
D-80	2	.75" OD	12,000–60,000	58.63	25.25	310	35 x 35 x 79	8828036	
D-120	2	.75" OD	12,000–90,000	61.75	29.50	446	35 x 35 x 79	8828032	
D2-120	2	1.125" OD	36,000–180,000	61.75	29.50	446	35 x 35 x 79	8828030	
DH-120	2	1.625" OD	84,000–420,000	61.75	29.50	446	35 x 35 x 79	8828029	
DHS-120	1	1.625" OD	168,000–840,000	61.75	29.50	446	35 x 35 x 79	8825141	
DE-120 <sup>3</sup>	2	1.125" OD	36,000–180,000	61.75	29.50	446	35 x 35 x 79	8828034	

<sup>1</sup> Refrigeration tonnage capacities are 30°F evaporator ton loads, not total heat of rejection tons. Pressure drop through a Fre-Heater refrigeration circuit will be approximately 15 psi at the maximum tonnage application. Pressure drop at the mid-range of tonnage application will be approximately 5 to 7 psi. The best overall refrigeration/heat recovery system efficiency is usually obtained at or below the mid-range tonnage application.

<sup>2</sup> Nominal water tank capacity: D-50 is 50 U.S. gallons, D-80 is 80 U.S. gallons, and D-120 and DE-120 are 119 U.S. gallons.

<sup>3</sup> Model "DE" heat exchanger and storage tank combined in single unit: 4,500-watt, 240-VAC electric heating element, UL classified, and stainless steel exterior. An optional 6,000-watt element may be field installed if needed to meet water heating requirements.



# E-LATION™ Package Chiller

Since 1955, Paul Mueller Company has been a trusted leader in milk cooling and storage solutions. As the dairy industry evolves, Mueller® consistently influences advancements, ensuring the dairy supply chain operates efficiently and reliably. Mueller E-LATION™ is a product designed, developed, and delivered to uphold our legacy of excellence in dairy equipment.

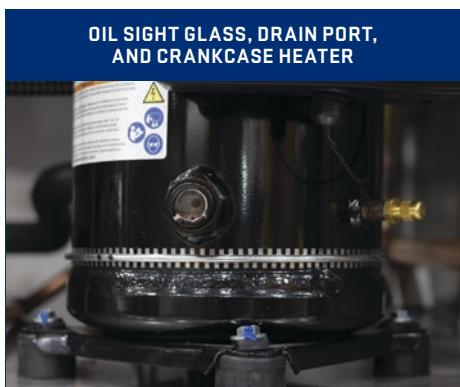
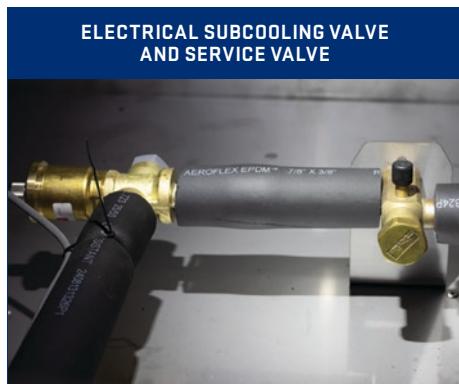
We meticulously crafted E-LATION to meet the unique demands of the dairy industry while prioritizing the needs of our certified Mueller dealers. Recognizing the dealer's pivotal role in maintaining a dairy's operation, Mueller engineered the E-LATION to streamline installation, servicing, and maintenance processes. This approach ensures that dairies remain operational and efficient with minimal downtime.



## FEATURES AND BENEFITS

- Built on the 15-horsepower E-Star® HiPerForm® platform.
- Universal sizes from 60 through 240 HP.
- Mueller Chill™ control connected to MuellerSecure™.
- Plug-and-play design for easy chiller installation requiring minimal plumbing and wiring.
- Sized for a wide range of operating conditions from 0° to 110°F.
- E-LATION is built with existing components using the MuellerSecure platform, so servicing your equipment is a simple, familiar, and straightforward process.
- Hefty 1,000-gallon propylene glycol reservoir (minimum 500 gallons) for the E-Series.
- Automatic compressor rolling starts that rotate with “milk switch.”
- Copeland Scroll 15-HP compressors.
- E-Star HiPerForm with electronic valve control delivers precise and instantaneous refrigerant control.
- Chiller system advanced alarms and alerts with MuellerSecure technology via texts and emails.
- Two 5-HP glycol process pumps and two 5-HP glycol chiller pumps for automatic redundant glycol pump control.
- Two glycol loop system (process and chiller).
- Factory charged with R-448a refrigerant.
- Remote start capability.
- Indoor or outdoor installation options.
- Add-on chiller connection flanged ports.

# A Closer Look



# ELATION E-Model and Chiller Module

E-LATION PACKAGE CHILLER   E-MODEL (WITH RESERVOIR)											
Model	Part Number	HP	Number of Condensing Units	Voltage	FLA	Minimum Circuit Ampacity	Maximum Fuse Size	Approx. Weight <sup>2</sup> (lb)	Btu/hr <sup>1</sup>	List Price	
E60-2	8829201	30	2/4	230/60/3	—	—	—	—	260,000		
E60-2		30	2/4	460/60/3	—	—	—	—			
E60-2		30	2/4	575/60/3	—	—	—	—			
E60-3		45	3/4	230/60/3	—	—	—	—	390,000		
E60-3		45	3/4	460/60/3	—	—	—	—			
E60-3		45	3/4	575/60/3	—	—	—	—			
E60-4		60	4/4	230/60/3	—	—	—	—	520,000		
E60-4		60	4/4	460/60/3	—	—	—	—			
E60-4		60	4/4	575/60/3	—	—	—	—			
E90-4	8829203	60	4/6	230/60/3	—	—	—	—	520,000		
E90-4		60	4/6	460/60/3	—	—	—	—			
E90-4		60	4/6	575/60/3	—	—	—	—			
E90-5		75	5/6	230/60/3	—	—	—	—	650,000		
E90-5		75	5/6	460/60/3	—	—	—	—			
E90-5		75	5/6	575/60/3	—	—	—	—			
E90-6		90	6/6	230/60/3	—	—	—	—	780,000		
E90-6		90	6/6	460/60/3	—	—	—	—			
E90-6		90	6/6	575/60/3	—	—	—	—			
E120-6	8829813	90	6/8	230/60/3	—	—	—	—	780,000		
E120-6		90	6/8	460/60/3	—	—	—	—			
E120-6		90	6/8	575/60/3	—	—	—	—			
E120-7		105	7/8	230/60/3	—	—	—	—	910,000		
E120-7		105	7/8	460/60/3	—	—	—	—			
E120-7		105	7/8	575/60/3	—	—	—	—			
E120-8		120	8/8	230/60/3	—	—	—	—	1,040,000		
E120-8		120	8/8	460/60/3	—	—	—	—			
E120-8		120	8/8	575/60/3	—	—	—	—			

<sup>1</sup> Based on compressor manufacturer's data at 20°F SST and 100°F CT. Actual Btu/hr output and energy usage may vary depending on field conditions.

All E-model chillers are equipped with two 5-horsepower process pumps and two 5-horsepower chiller pumps.

Five-horsepower pumps (Part No. 8829202) are rated for 100–300 gpm at 35–65 psi.

<sup>2</sup> Actual weights may vary.

E-LATION CHILLER MODULE <sup>3</sup>													
Model	Part Number	HP	Voltage	Hz	FLA	Min. Circuit Amp.	Max. Fuse Size	Btu/hr <sup>4</sup>	Width (in)	Depth (in)	Height (in)	Approx. Weight (lb)	List Price
CHSE-A153E-HFO	8829810	15	208–230/60/3	60	—	—	—	130,000	65	48	70	890	
OHSE-A1534E-HFO	8829702	15	460/60/3	60	35.3	44.2	80	130,000	65	48	70	890	
CHSE-A1536E-HFO	8829812	15	380/60/3	60	—	—	—	130,000	65	48	70	890	
OHSE-A1535E-HFO	8829811	15	575/60/3	60	—	—	—	130,000	65	48	70	890	

<sup>3</sup> Chiller modules can be used as standalone chillers or on the E-LATION package chiller. Hoses, temperature controls, and freeze stats are sold separately.

<sup>4</sup> Based on compressor manufacturer's data at 20°F SST and 100°F CT. Actual Btu/hr output and energy usage may vary depending on field conditions.

# E-LATION EN-Model

E-LATION PACKAGE CHILLER   EN-MODEL										
Model	Part Number	HP	Number of Condensing Units	Voltage	FLA	Minimum Circuit Ampacity	Maximum Fuse Size	Approx. Weight <sup>2</sup> (in)	Btu/hr <sup>1</sup>	List Price
EN60-2	8829817	30	2/4	230/60/3	—	—	—	—	260,000	
EN60-2		30	2/4	460/60/3	—	—	—	—		
EN60-2		30	2/4	575/60/3	—	—	—	—		
EN60-3		45	3/4	230/60/3	—	—	—	—	390,000	
EN60-3		45	3/4	460/60/3	—	—	—	—		
EN60-3		45	3/4	575/60/3	—	—	—	—		
EN60-4		60	4/4	230/60/3	—	—	—	—	520,000	
EN60-4		60	4/4	460/60/3	—	—	—	—		
EN60-4		60	4/4	575/60/3	—	—	—	—		
EN90-4	8829816	60	4/6	230/60/3	—	—	—	—	520,000	
EN90-4		60	4/6	460/60/3	—	—	—	—		
EN90-4		60	4/6	575/60/3	—	—	—	—		
EN90-5		75	5/6	230/60/3	—	—	—	—	650,000	
EN90-5		75	5/6	460/60/3	—	—	—	—		
EN90-5		75	5/6	575/60/3	—	—	—	—		
EN90-6		90	6/6	230/60/3	—	—	—	—	780,000	
EN90-6		90	6/6	460/60/3	—	—	—	—		
EN90-6		90	6/6	575/60/3	—	—	—	—		
EN120-6	8829815	90	6/8	230/60/3	—	—	—	—	780,000	
EN120-6		90	6/8	460/60/3	—	—	—	—		
EN120-6		90	6/8	575/60/3	—	—	—	—		
EN120-7		105	7/8	230/60/3	—	—	—	—	910,000	
EN120-7		105	7/8	460/60/3	—	—	—	—		
EN120-7		105	7/8	575/60/3	—	—	—	—		
EN120-8		120	8/8	230/60/3	—	—	—	—	1,040,000	
EN120-8		120	8/8	460/60/3	—	—	—	—		
EN120-8		120	8/8	575/60/3	—	—	—	—		

<sup>1</sup> Based on compressor manufacturer's data at 20°F SST and 100°F CT. Actual Btu/hr output and energy usage may vary depending on field conditions.

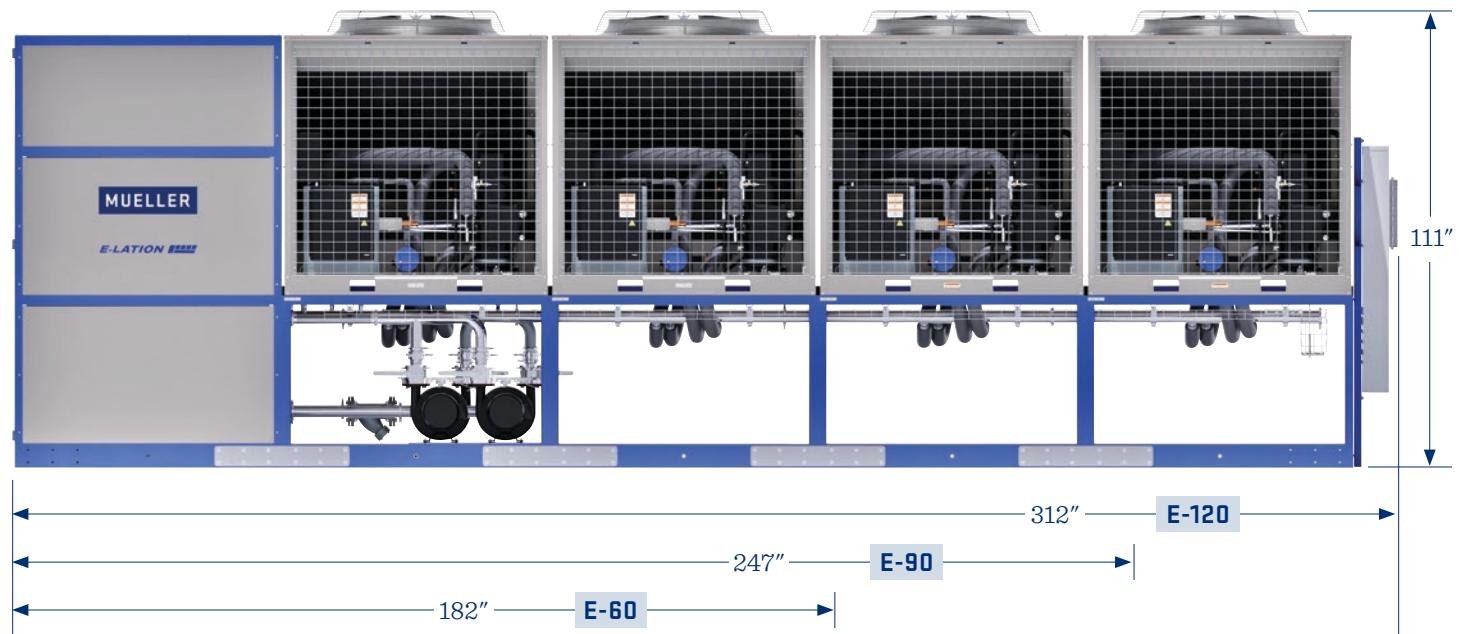
All EN-model chillers are equipped with two 5-horsepower chiller pumps. Five horsepower process pumps can also be added to EN-model chillers.

Five-horsepower pumps (Part No. 8829202) are rated for 100–300 gpm at 35–65 psi.

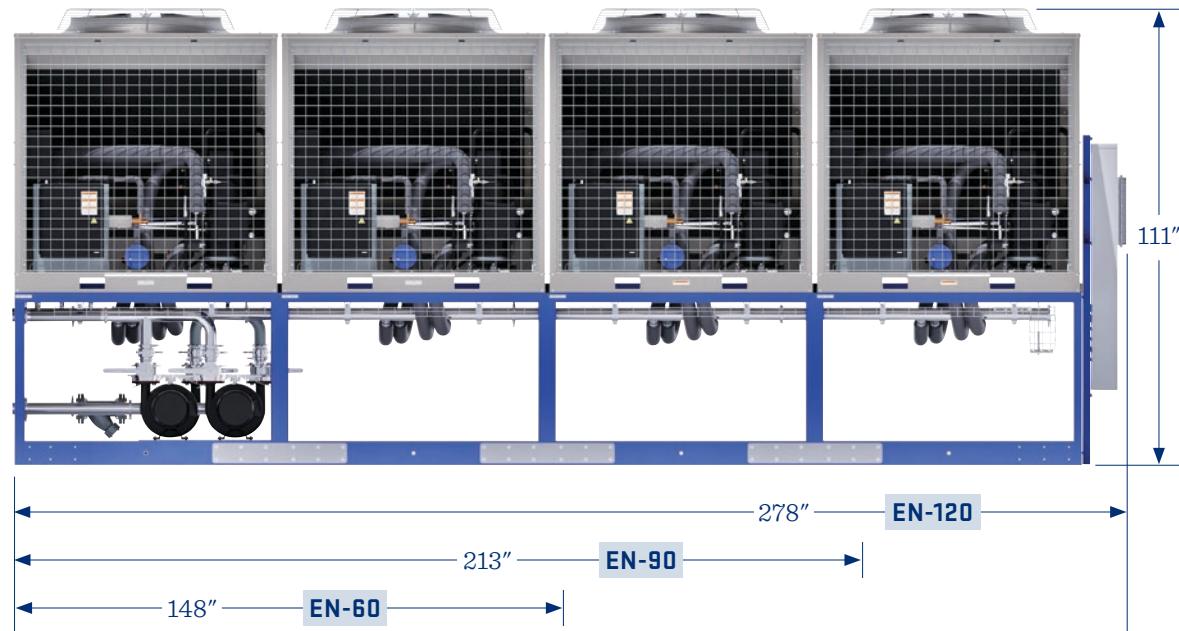
<sup>2</sup> Actual weights may vary.

# ELATION Package Chiller Dimensions

## E-Model Dimensions



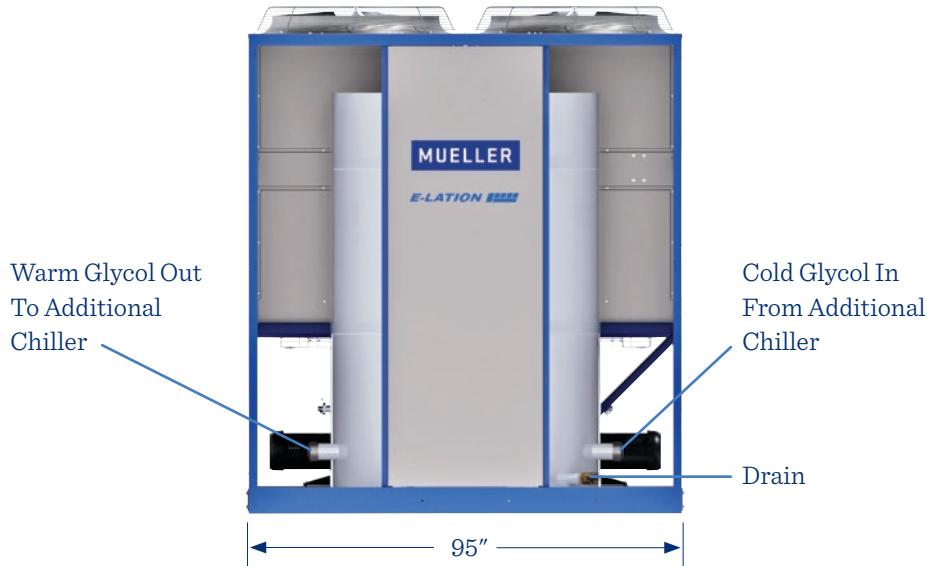
## EN-Model Dimensions



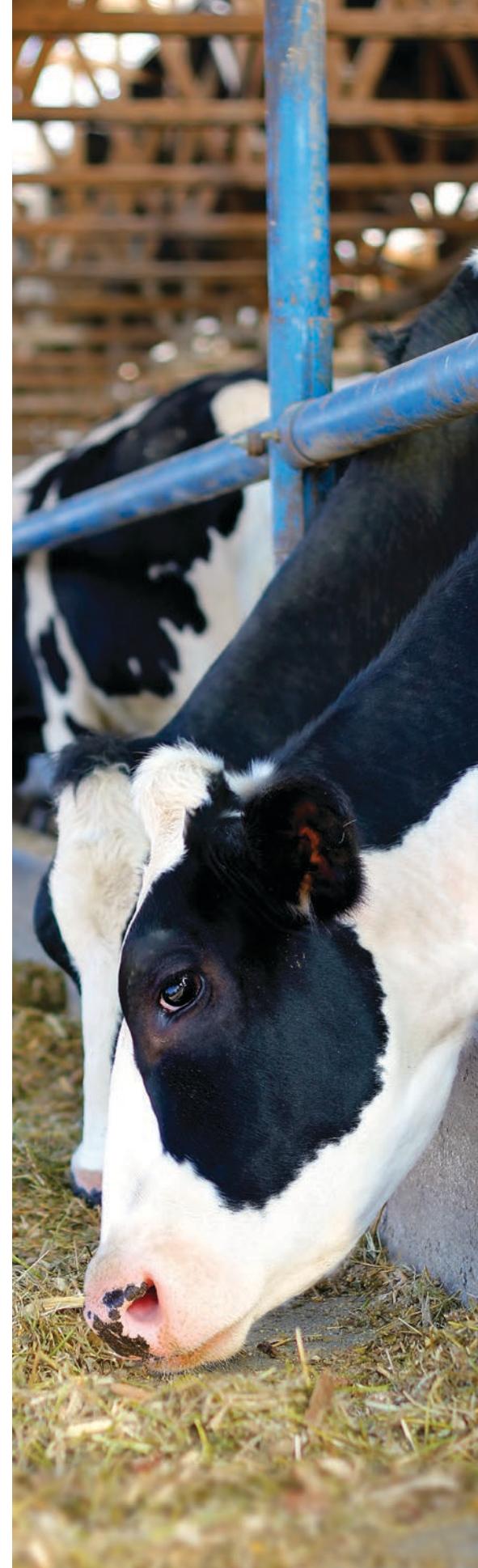
## E- and EN-Model Control View



## E-Model Glycol Connections\*\* View



\*\*Glycol connections are 3" CL150, 4-bolt.



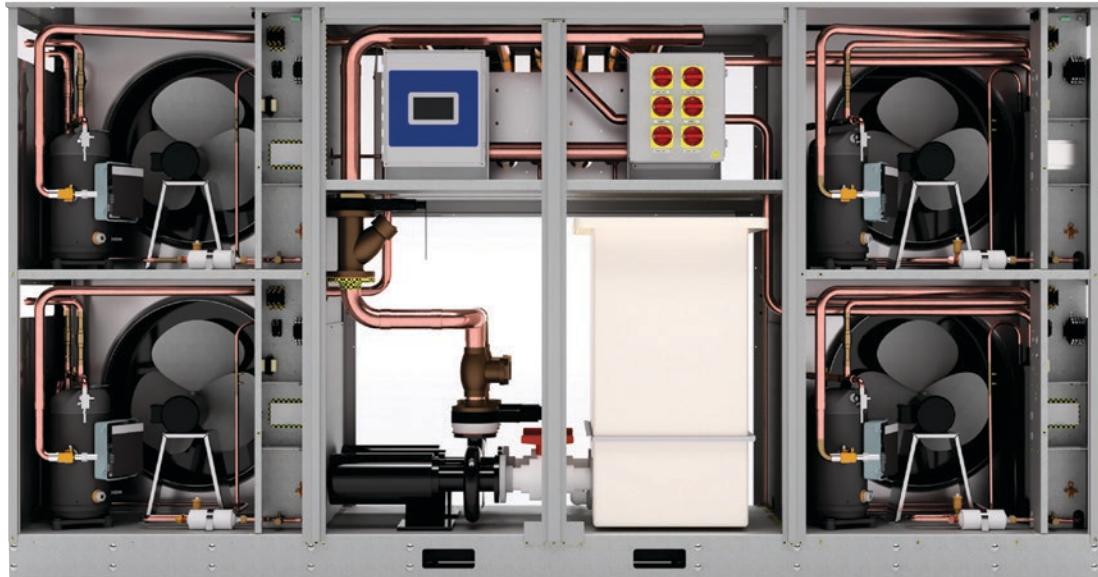
# MAXXimizer® L-40 Package Chiller

*Remote monitoring made easy!*

Paul Mueller Company's MAXXimizer® L-40 package chiller features MuellerSecure technology, giving dairy farmers remote, real-time access to their refrigeration system data so they can monitor milk flow rates and temperatures. Four built-in E-Star HiPerForm EVC condensing units make it possible to maintain cool milk flow rates of 8,500 pounds per hour (3,724.8 liters per hour). Simply connect the glycol plumbing, run the electrical lines, and add glycol solution. The MAXXimizer chiller goes straight to work on both traditional and robotic dairy farms.

## STANDARD FEATURES

- Precharged, plug-and-play design makes installation easy and requires minimal plumbing and wiring.
- Sized for a wide range of operating conditions from 0 to 110 degrees Fahrenheit.
- Built with existing components so servicing your equipment is a simple and straightforward process.
- E-Star HiPerForm electronic valve control delivers precise and instantaneous refrigerant control.
- System advanced alerts and historical diagnostic reports via MuellerSecure technology.
- A 140-gallon propylene glycol reservoir.
- Compatible with R-448a and R-507 refrigerants.
- Indoor or outdoor installation options.
- Automatic compressor rolling starts.
- Automatic redundant pump control.
- Remote start capability.



Configured  
part number  
8829202.

# MAXXimizer L-40 Package Chiller

MAXXIMIZER PACKAGE CHILLER ASSEMBLIES						
Horsepower	Voltage	Flow Range (gpm)	Head Range (ft)	Btu/hr <sup>1</sup>	Shipping Weight (lb)	List Price
<b>R-507 Refrigerant</b>						
40	230/60/3	100–300	35–65	340,800	4,600	
40	460/60/3	100–300	35–65	340,800	4,600	
<b>R-448a Refrigerant</b>						
40	230/60/3	100–300	35–65	288,000	4,600	
40	460/60/3	100–300	35–65	288,000	4,600	
40	575/60/3 <sup>2</sup>	100–300	35–65	288,000	4,600	

All MAXXimizer chillers are equipped with two 5-horsepower water circulation pumps.

<sup>1</sup> Based on compressor manufacturer's data at 20°F SST and 100°F CT. Actual Btu/hr output and energy usage may vary depending on field conditions.

<sup>2</sup> 230 V / 60 Hz fan motor circuit.

INSTALLATION FLANGES AND ACCESSORIES	
Description	Part Number <sup>1</sup>
3" PVC socket flange, ANSI	9840811
3" brass SWT socket flange, ANSI	8824267
3" 304 stainless steel, schedule-40, socket flange, ANSI	9803873
3" flange gasket, rubber	9840985

<sup>1</sup> Bolts, nuts, washers, and gaskets for the flange connections are sold with and shipped inside the chiller cabinet.



# LSA Chiller

## STANDARD FEATURES

- Mueller Chill Control™, compatible with MuellerSecure, with up to ten independent programmable stages, two temperature sensors, and control of circulation pump.
- Remote start compatibility.
- Fused control circuit.
- Prewired electrical control panel.
- Freeze protection safety control, pressure operated.
- Starter for 5-horsepower recirculation pump.
- Controls and pump for all models are 208–230/60/3 or optional 460/60/3. (A 230/60/1 control and pump are available for the LSA 20-5 and LSA 30-5 upon request.)
- Insulated, 300-gallon stainless steel storage tank with external liquid level sight gauge, filtered vent/fill, and 2" drain.
- Heavy-duty stainless steel evaporators with refrigerant sight glass and expansion valve installed on each chiller.
- Polished stainless steel cabinet with removable covers for easy accessibility and stainless steel base.
- Chiller assembly dimensions: 94.63" L x 54" W x 58" H. Shipping weight: 2,000 lbs.
- Includes one-year limited warranty. Available in the United States and Canada only.

*Three-inch field installation mating flanges are not included.*

*See page 42 for flange accessories.*

*All field piping must be 3" minimum in size.*



Configured part  
number 8825577.

LSA CHILLER ASSEMBLIES							
Model Number	Refrigeration Per Circuit Capacity (HP)	Number of Refrigeration Circuits	Refrigeration Connection Size		Flow Range (gpm)	Head Range (ft)	List Price
			Liquid Line	Suction Line			
LSA 20-5	5	4	.50" OD	1.375" OD	120–390	38–54	
LSA 30-5	5	6	.50" OD	1.375" OD	120–390	38–54	
LSA 40-10	10	4	.625" OD	1.625" OD	120–390	38–54	
LSA 60-10	10	6	.625" OD	1.625" OD	120–390	38–54	
LSA 60-15	15–20	4	.625" OD	1.625" OD	120–390	38–54	
LSA 90-15	15–20	6	.625" OD	1.625" OD	120–390	38–54	
LSA 120-30	25–30	4	.625" OD	1.625" OD	120–390	38–54	
LSA 180-30	25–30	6	.625" OD	1.625" OD	120–390	38–54	
LSA 160-40	25–30	4	.875" OD	1.625" OD	120–390	38–54	
LSA 240-40	35–40	6	.875" OD	1.625" OD	120–390	38–54	

*All LSA chillers include R-507 thermal expansion valves, unless being sold with an E-Star HiPerForm condensing unit.*

*All LSA chillers are equipped with a 5-horsepower water pump. (LSA 30-5 chillers will ship with a 3-horsepower water pump when 208–230/60/1 is requested.)*

*For additional LSA chiller pump and accessory information, please reference the Chiller (CH) Replacement Parts, pages 8.1B and 9.1B.*

# LSA Chiller Installation Flanges and Accessories

INSTALLATION FLANGES AND ACCESSORIES		Part Number <sup>1</sup>
Description		Part Number <sup>1</sup>
3" PVC socket flange, ANSI		9840811
3" brass SWT socket flange, ANSI		8824267
3" 304 stainless steel, schedule-40, socket flange, ANSI		9803873
3" flange gasket, rubber		9840985

<sup>1</sup> Bolts, nuts, washers, and gaskets for the flange connections are sold with and shipped inside the LSA chiller cabinet.

## Propylene Glycol

PREMIXED PROPYLENE GLYCOL		Part Number <sup>1</sup>
Description		Part Number <sup>1</sup>
Glycol 275-gallon tote		8829448
Glycol 55-gallon drum		8829447
Methylparaben bacteria inhibitor, 500 grams (treats 150 gallons of glycol)		9840964



Glycol 55-gallon drum, configured part number 8829447.

Glycol 275-gallon tote, configured part number 8829448.

# HiPerChill™ 5 Package Chiller

*Instant cool your milk!*

## STANDARD FEATURES

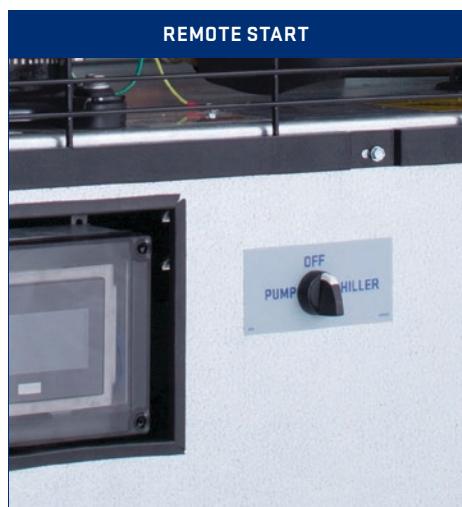
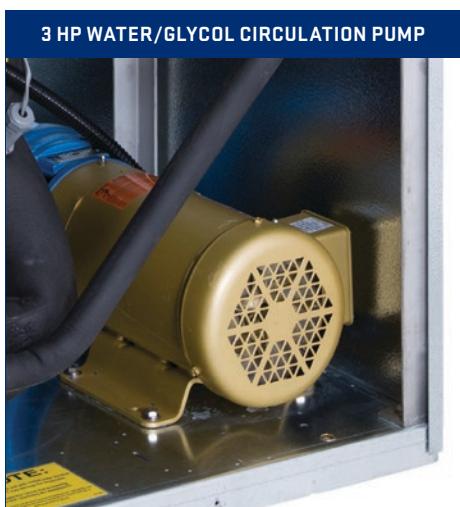
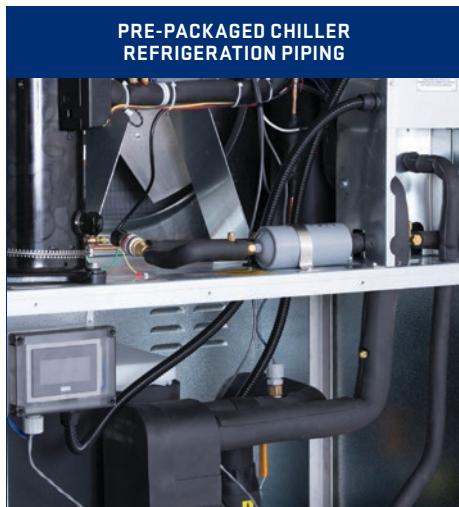
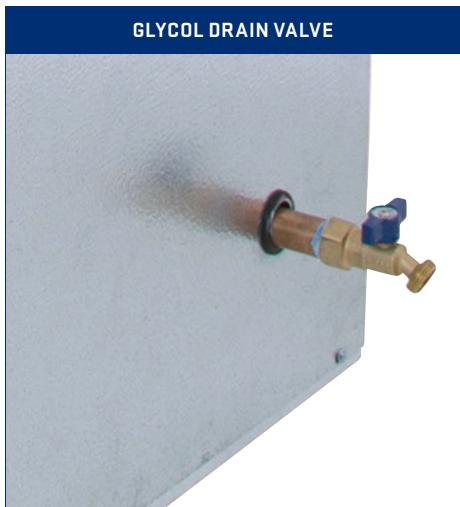
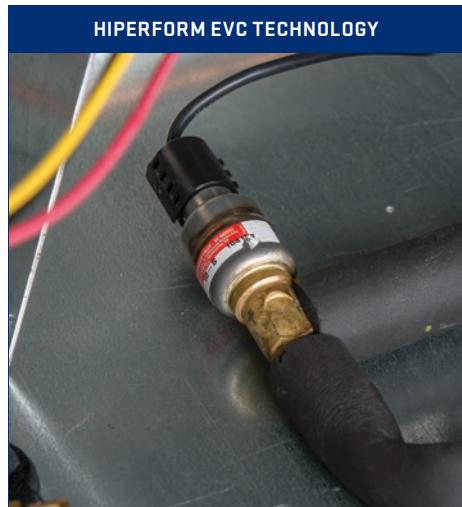
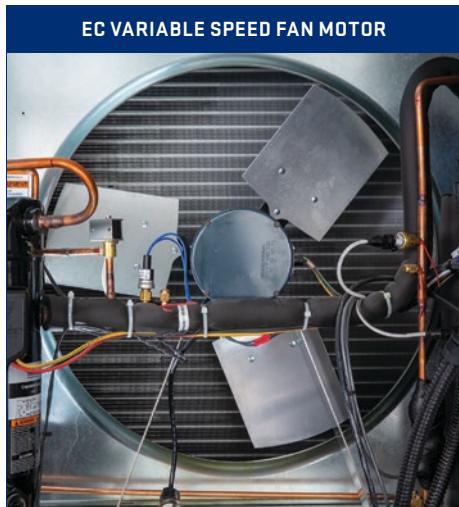
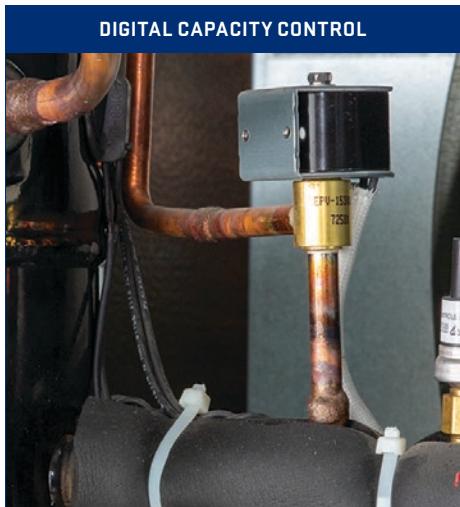
- Package chiller, 5 horsepower.
- Mueller Chill Control, compatible with MuellerSecure.
- HiPerForm EVC technology.
- Digital capacity control.
- EC fan motor.
- Remote start capability.
- Touch-screen control.
- Water circulation pump, 3 horsepower.
- Insulated, 37-gallon glycol reservoir.



HIPERCHILL 5 PACKAGE CHILLER				
Model Number	Electrical Characteristics	Refrigeration Capacity (Btuh)	Part Number	List Price
<b>R-507 Refrigerant</b>				
HPC-51ED-HFC	208-230/60/1	48,800	8828082	
HPC-53ED-HFC	208-230/60/3	48,500	8828227	
HPC-534ED-HFC	460/60/3	48,500	8829155	
<b>R-448a Refrigerant</b>				
HPC-51ED-HFO*	208-230/60/1	42,700	8828728	
HPC-53ED-HFO*	208-230/60/3	42,700	8828730	
HPC-534ED-HFO*	460/60/3	42,700	8829150	
HPC-535ED-HFO*	575/60/3	42,700	8829024	

\*HFO units are designed to operate with R-448a refrigerant.

# A Closer Look



# CP2 Compact Chiller

## STANDARD FEATURES

- Requires less than 14-square-feet of space.
- Designed to cool varied milk flow.
- Condensing unit operation is only required while milking, lowering operating costs.
- Factory assembled to reduce installation cost.
- CP2-series chillers are designed to be used with an E-Star HiPerForm condensing unit, and are not equipped with refrigeration valves.
- Insulated 90-gallon reservoir.
- Three-horsepower circulation pump.
- Two brazed plate heat exchangers.
- Mueller Chill Control (part number 8825846), compatible with MuellerSecure, with up to ten independent programmable stages, two temperature sensors, and control of circulation pump.



CP2 COMPACT CHILLER								
Model Number	Refrigeration* Per Circuit Capacity	Refrigeration Connections		Flow Range (gpm)	Head Range (ft)	Electrical Characteristics	Part Number	List Price
		Liquid Line	Suction Line					
CP2-10	5 HP   48,000 Btuh	.50" OD	1.25" OD	70-120	60-90	208-230/60/1	8827274	
CP2-10	5 HP   48,000 Btuh	.50" OD	1.25" OD	70-120	60-90	230/60/3	8828739	
CP2-10	5 HP   48,000 Btuh	.50" OD	1.25" OD	70-120	60-90	460/60/3	8828740	
CP2-10	5 HP   48,000 Btuh	.50" OD	1.25" OD	70-120	60-90	575/60/3	8829006	
CP2-20	9 HP   85,200 Btuh	.625" OD	1.375" OD	70-120	60-90	208-230/60/1	8827276	
CP2-20	9 HP   85,200 Btuh	.625" OD	1.375" OD	70-120	60-90	230/60/3	8828741	
CP2-20	9 HP   85,200 Btuh	.625" OD	1.375" OD	70-120	60-90	460/60/3	8828742	
CP2-20	9 HP   85,200 Btuh	.625" OD	1.375" OD	70-120	60-90	575/60/3	8829007	

\*These capacities are based on the use of R-507 refrigerant.

CP2 COMPACT CHILLER DIMENSIONS AND WEIGHT				
Model Number	Dimensions			Shipping Weight (lb)
	Length (in)	Width (in)	Height (in)	
CP2-10	52	31	54	775
CP2-20	52	31	54	845

For additional compact chiller pump and accessory information, please reference the Chiller (CH) Replacement Parts, page CH 4.1B.

# Chilled Water Circulation Pump and Accessories

## STANDARD FEATURES

- Compact, in-line design.
- Stainless steel fitted.
- TEFC NEMA-C face motors.
- Tungsten-carbide stationary and rotary seals.
- Replacement pumps are for current production chillers only.
- Please contact your Regional Sales Manager for older model pump replacements.

LS, LSA, AND FALLING FILM CHILLER REPLACEMENT PUMPS (INLINE)						
Motor (HP)	Voltage	Inlet/Outlet Connections	Flow (gpm)	Impeller Size (in)	Part Number	Replacement Motor Part Number
5	208-230/60/1   1,800 rpm	4" Flange   #125	120-390	7.1	8827727	8827805
5	208-230/460/60/3   1,800 rpm	4" Flange   #125	120-390	7.1	8827728	8827806

COMPACT CHILLER AND HIPERCHILL 5 REPLACEMENT PUMPS (HEAD SUCTION)						
Motor (HP)	Voltage	Inlet/Outlet Connections	Flow (gpm)	Head Range (ft)	Impeller Size (in)	Part Number
3	208-230/60/1   1,800 rpm	4" Flange   #125	100-180	55-76	4.24	8828761
3	208-230/460/60/3   1,800 rpm	4" Flange   #125	100-180	55-76	4.24	8828763
3	575/60/3   1,800 rpm	4" Flange   #125	100-180	55-76	4.24	8829008

MAXXIMIZER REPLACEMENT PUMP (HEAD SUCTION)						
Motor (HP)	Voltage	Inlet/Outlet Connections	Flow (gpm)	Head Range (ft)	Impeller Size (in)	Part Number
5	208-230/460/60/3   1,800 rpm	4" Flange   #125	100-300	35-65	7.81	8829020

INSTALLATION FLANGE						
Description						Part Number <sup>1</sup>
Flange kit, 4" NPT x 4", 4-bolt, #100 class, cast iron (includes two flanges, two gaskets, and 8 nuts/bolts)						8827810

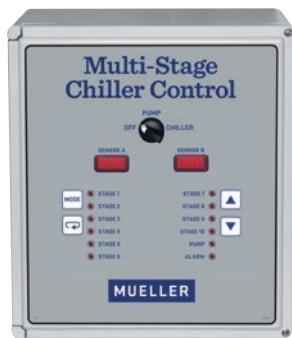
# Falling Film Chiller NS-R

## STANDARD FEATURES

- Multi-stage chiller control with up to ten independent programmable stages, two temperature sensors, and control of circulator pump.
- Type 304 stainless steel construction.
- Suitable for use with R-507 refrigerants.
- Required water flow rate using high-flow distribution pan:  
Minimum flow rate: 15 gpm per plate/39,000 Btuh per plate  
Maximum flow rate: 29 gpm per plate/33,000 Btuh per plate
- Required water flow rate using low-flow distribution pan:  
Minimum flow rate: 9 gpm per plate/47,500 Btuh per plate  
Maximum flow rate: 14 gpm per plate/39,900 Btuh per plate
- Nominal operating capacity of insulated tank:  
2-8 plates: 150 U.S. gallons  
2-8 plates: 400 U.S. gallons
- Circulation water connection size, 2-8 plates:  
Inlet: Single low-flow pan, 2" MPT      Outlet: 4" MPT  
Inlet: Single high-flow pan, 3" MPT      Outlet: 4" MPT
- Clamp-type ferrule and male pipe-thread adapter included for inlet.
- Expansion valves for each refrigeration plate are included.
- Refrigeration capacity and refrigerant must be specified at time of ordering.



Configured part number 731348.



# Falling Film Chiller NS-R

FALLING FILM CHILLER NS-R 3 X 5					
Model Number	Number of Plates (Refrigeration Circuits)	Maximum No. of Plates	Low-Flow Pan Chiller Capacities	High-Flow Pan Chiller Capacities	List Price
<b>150-Gallon Reservoir</b>					
NS2-R-150	2	8	95,000 Btuh @ 18 gpm 79,800 Btuh @ 28 gpm	78,000 Btuh @ 30 gpm 66,600 Btuh @ 58 gpm	
NS3-R-150	3	8	142,500 Btuh @ 27 gpm 119,700 Btuh @ 42 gpm	117,000 Btuh @ 45 gpm 99,900 Btuh @ 87 gpm	
NS4-R-150	4	8	190,000 Btuh @ 36 gpm 159,600 Btuh @ 56 gpm	156,000 Btuh @ 60 gpm 133,200 Btuh @ 116 gpm	
NS5-R-150	5	8	237,500 Btuh @ 45 gpm 199,500 Btuh @ 70 gpm	195,000 Btuh @ 75 gpm 166,500 Btuh @ 145 gpm	
NS6-R-150	6	8	285,000 Btuh @ 54 gpm 239,400 Btuh @ 84 gpm	234,000 Btuh @ 90 gpm 239,400 Btuh @ 84 gpm	
NS7-R-150	7	8	332,500 Btuh @ 63 gpm 279,300 Btuh @ 98 gpm	273,000 Btuh @ 105 gpm 233,100 Btuh @ 203 gpm	
NS8-R-150	8	8	380,000 Btuh @ 72 gpm 319,200 Btuh @ 112 gpm	312,000 Btuh @ 120 gpm 266,400 Btuh @ 232 gpm	
<b>400-Gallon Reservoir</b>					
NS7-R-400	7	8	332,500 Btuh @ 63 gpm 279,300 Btuh @ 98 gpm	273,000 Btuh @ 105 gpm 233,100 Btuh @ 203 gpm	
NS8-R-400	8	8	380,000 Btuh @ 72 gpm 319,200 Btuh @ 112 gpm	312,000 Btuh @ 120 gpm 266,400 Btuh @ 232 gpm	

Chiller capacities are based on non-glycol chilled water solution.  
See page 46 for water circulation pumps and accessories.

FALLING FILM CHILLER NS-R 3 X 5 DIMENSIONS AND WEIGHT					
Model Number	Dimensions			Shipping Weight (lb)	
	Length (in)	Width (in)	Height (in)		
NSR-R-150	68.5	36.5	76	1,075	
NSR-R-400	68.5	36.5	96	1,354	

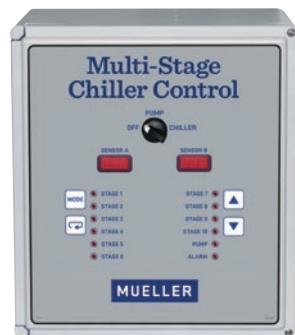
WALL-MOUNT REPLACEMENT MULTI-STAGE CHILLER CONTROL			
Description		Part Number	List Price
Multi-stage chiller control, 230/460 V, three phase		8825856	
Multi-stage chiller control, 230 V, single phase		8827534	

# Falling Film Chiller LNS-R

## STANDARD FEATURES

- Multi-stage chiller control with up to ten independent programmable stages, two temperature sensors, and control of circulator pump.
- Type 304 stainless steel construction.
- Suitable for use with R-507 refrigerants.
- Required water flow rate using high-flow distribution pan:  
Minimum flow rate: 30 gpm per plate/81,000 Btuh per plate  
Maximum flow rate: 50 gpm per plate/70,000 Btuh per plate
- Required water flow rate using low-flow distribution pan:  
Minimum flow rate: 18 gpm per plate/100,800 Btuh per plate  
Maximum flow rate: 28 gpm per plate/82,600 Btuh per plate
- Nominal operating capacity of insulated tank:  
2–8 plates: 325 U.S. gallons  
9–16 plates: 650 U.S. gallons
- Circulation water connection size, 2–8 plates:  
Inlet: Single low-flow pan, 4" MPT      Outlet: 4" MPT  
Inlet: Single high-flow pan, 6" MPT      Outlet: 4" MPT
- Circulation water connection size, 9–16 plates:  
Inlet: Single low-flow pan, 4" MPT      Outlet: 6" RFSO pipe flange\*  
Inlet: Single high-flow pan, 6" MPT      Outlet: 6" RFSO pipe flange\*
- Clamp-type ferrule and male pipe-thread adapter included for inlet.
- Expansion valves for each refrigeration plate are included.
- Refrigeration capacity and refrigerant must be specified at time of ordering.

\*6" and 8" RFSO pipe flange available as an option.



Part number 8825856.  
See page 48 for pricing.



Configured part number 731348.

# Falling Film Chiller LNS-R

FALLING FILM CHILLER LNS-R 4 X 8					
Model Number	Number of Plates (Refrigeration Circuits)	Maximum No. of Plates	Low-Flow Pan Chiller Capacities	High-Flow Pan Chiller Capacities	List Price
<b>325-Gallon Reservoir</b>					
LNS2-R-325	2	8	201,600 Btuh @ 36 gpm 165,200 Btuh @ 56 gpm	162,000 Btuh @ 60 gpm 140,000 Btuh @ 100 gpm	
LNS3-R-325	3	8	302,400 Btuh @ 54 gpm 247,800 Btuh @ 84 gpm	243,000 Btuh @ 90 gpm 210,000 Btuh @ 150 gpm	
LNS4-R-325	4	8	403,200 Btuh @ 72 gpm 330,400 Btuh @ 112 gpm	324,000 Btuh @ 120 gpm 280,000 Btuh @ 200 gpm	
LNS5-R-325	5	8	504,000 Btuh @ 90 gpm 413,000 Btuh @ 140 gpm	405,000 Btuh @ 150 gpm 350,000 Btuh @ 250 gpm	
LNS6-R-325	6	8	604,800 Btuh @ 108 gpm 495,600 Btuh @ 168 gpm	486,000 Btuh @ 180 gpm 420,000 Btuh @ 300 gpm	
LNS7-R-325	7	8	705,600 Btuh @ 126 gpm 578,200 Btuh @ 196 gpm	567,000 Btuh @ 210 gpm 490,000 Btuh @ 350 gpm	
LNS8-R-325	8	8	806,400 Btuh @ 144 gpm 660,800 Btuh @ 224 gpm	648,000 Btuh @ 240 gpm 560,000 Btuh @ 400 gpm	
<b>650-Gallon Reservoir</b>					
LNS9-R-650	9	16	907,200 Btuh @ 162 gpm 743,400 Btuh @ 252 gpm	729,000 Btuh @ 270 gpm 630,000 Btuh @ 450 gpm	
LNS10-R-650	10	16	1,008,000 Btuh @ 180 gpm 826,000 Btuh @ 280 gpm	810,000 Btuh @ 300 gpm 700,000 Btuh @ 500 gpm	
LNS11-R-650	11	16	1,108,800 Btuh @ 198 gpm 908,600 Btuh @ 308 gpm	891,000 Btuh @ 330 gpm 770,000 Btuh @ 550 gpm	
LNS12-R-650	12	16	1,209,600 Btuh @ 216 gpm 991,200 Btuh @ 336 gpm	972,000 Btuh @ 360 gpm 840,000 Btuh @ 600 gpm	
LNS13-R-650	13	16	1,310,400 Btuh @ 234 gpm 1,073,800 Btuh @ 364 gpm	1,053,000 Btuh @ 390 gpm 910,000 Btuh @ 650 gpm	
LNS14-R-650	14	16	1,411,200 Btuh @ 252 gpm 1,156,400 Btuh @ 392 gpm	1,134,000 Btuh @ 420 gpm 980,000 Btuh @ 700 gpm	
LNS15-R-650	15	16	1,512,000 Btuh @ 270 gpm 1,239,000 Btuh @ 420 gpm	1,215,000 Btuh @ 450 gpm 1,050,000 Btuh @ 750 gpm	
LNS16-R-650	16	16	1,612,800 Btuh @ 288 gpm 1,321,600 Btuh @ 448 gpm	1,296,000 Btuh @ 480 gpm 1,120,000 Btuh @ 800 gpm	

Chiller capacities are based on non-glycol chilled water solution.  
See page 46 for water circulation pumps and accessories.

FALLING FILM CHILLER LNS-R 4 X 8 DIMENSIONS AND WEIGHT					
Model Number	Dimensions			Shipping Weight (lb)	
	Length (in)	Width (in)	Height (in)		
LNSR-R-325	68.5	36.5	76	1,075	
LNSR-R-650	68.5	36.5	96	1,354	

# Self-Contained, Air-Cooled Refrigeration Unit

## STANDARD FEATURES

- Direct-drive condenser fans.
- Accumulator heat exchanger.
- Hinged control panel access.
- Removable access panels.
- Compressor contactor.
- Fan motor contactor.
- Crankcase heater.
- Fused control circuit.
- Head pressure valves.
- Pressure fan cycle control.
- Separate subcooling circuit.
- Fan motor thermal protection.
- Low-pressure operating control.
- Electronic oil pressure control.
- Liquid receiver with relief valve.
- Inlet and outlet service valves.
- High-pressure safety valve.
- Service run/pump-down switch.
- NEMA 3R weatherproof electrical panel.
- Vibration isolation under compressor.
- Shipped with polyolester oil.
- Bronz-Glow® coated condensers.
- Includes one-year limited compressor warranty.  
Available in the United States and Canada only.



## OPTIONAL ADD-ON

- Low-ambient heated receiver kit.

# Self-Contained, Air-Cooled Refrigeration Unit

LARGE HORSEPOWER, SELF-CONTAINED REFRIGERATION UNIT WITH BRONZ-GLOW® COATED CONDENSER						
Horsepower	Voltage	R-507 Chiller Capacity <sup>1</sup> (Btu/h)	R-448a Chiller Capacity <sup>1</sup> (Btu/h)	Model Number	Part Number	List Price
15	230/3	136,380	133,440	DS15H201	8828505	
15	460/3	136,380	133,440	DS15H202	8828510	
25	230/3	185,720	177,590	DS25H201	8828506	
25	460/3	185,720	177,590	DS25H202	8828511	
30	230/3	231,070	215,110	DS30H201	8828507	
30	460/3	231,070	215,110	DS30H202	8828512	
35	230/3	286,570	268,070	DS35H201	8828508	
35	460/3	286,570	268,070	DS35H202	8828513	
40	460/3	343,660	318,470	DS40H202	8828514	

<sup>1</sup> Chiller capacities are measured in Btu/h at 20°F SST and 95°F ambient temperature.

Unloader models are 45% for 15 horsepower; 25 and 30 horsepower are 50%; and 35 and 40 horsepower are 33%.

Freight included on orders of air-cooled refrigeration unit(s) that exceed \$50,000 list price.

OPTIONAL LOW-AMBIENT HEATED RECEIVER KIT*			
Description	Horsepower	Part Number	List Price
Low-ambient heated receiver kit	For 15- to 30-horsepower units	8827216	
Low-ambient heated receiver kit	For 35- to 40-horsepower units	8827217	

\*For use when units are subject to normal ambient temperatures 30°F or below.

LARGE HORSEPOWER, SELF-CONTAINED, AIR-COOLED REFRIGERATION UNIT WITH UNLOADERS DIMENSIONS AND WEIGHT						
Horsepower	Number of Fans	Dimensions			Shipping Weight (lb)	
		Length (in)	Width (in)	Height (in)		
15	2	171	45	56	1,680	
25	3	226	45	56	1,950	
30	3	226	45	56	2,160	
35	4	281	45	56	2,770	
40	4	281	45	56	2,870	

# Remote Air-Cooled Condenser

## STANDARD FEATURES

- High-efficiency copper-tube-and-aluminum-fin condenser coils.
- Statically and dynamically balanced fans with fully baffled fan sections.
- Weatherproof junction box for single-point field wiring.
- Fan motors compatible with variable fan drive operation.
- Bronz-Glow® coated condensers.
- Ships completely assembled.
- Direct-drive condenser motor.
- Heavy-duty galvanized steel cabinet.
- Energy-efficient, thermally protected motor.
- Vertical air discharge.
- Fan cycle control.



REMOTE, AIR-COOLED WITH BRONZ-GLOW® COATED CONDENSER				
Horsepower	Voltage	Number of Fans	Part Number	List Price
10	208-230/60/3	2	8828515	
10	460/60/3	2	8828516	
15/20	208-230/60/3	2	8828517	
15/20	460/60/3	2	8828518	
25	208-230/60/3	2	8828519	
25	460/60/3	2	8828520	
30	208-230/60/3	3	8828521	
30	460/60/3	3	8828522	
35	208-230/60/3	4	8828523	
35	460/60/3	4	8828524	
40	208-230/60/3	4	8828525	
40	460/60/3	4	8828526	

Chiller capacities at 20°F saturated suction temperature (SST) and 95°F ambient.  
Freight included on orders of air-cooled refrigeration unit(s) that exceed \$50,000 list price.

REMOTE, AIR-COOLED CONDENSER DIMENSIONS AND WEIGHT					
Horsepower	Number of Fans	Dimensions			Shipping Weight (lb)
		Length (in)	Width (in)	Height (in)	
10	2	127	46	50	760
15/20	2	127	46	50	810
25	2	127	46	50	860
30	3	180	46	50	860
35	4	233	46	50	860
40	4	233	46	50	860

# Air-Cooled Refrigeration Unit for Remote Condenser

## STANDARD FEATURES

- Copeland Discus™ compressor.
- Includes accumulator/heat exchanger.
- Large pump-down capacity.
- Dual pressure control, mounted and wired.
- Oil-pressure safety control, mounted and wired.
- Contactor mounted inside enclosure.
- Requires remote condenser (not included).  
See page 53 for remote condenser sizing.
- Service valves.
- Includes one-year limited compressor warranty.  
Available in U.S.A. and Canada only.



LARGE HORSEPOWER, AIR-COOLED REFRIGERATION UNIT FOR REMOTE CONDENSER					
Horsepower	Model Number	Voltage	R-507 Chiller Capacity <sup>1</sup> (Btu/h)	Part Number	List Price
10	RC1001	230/3	94,000	8804629	
10	RC1002	460/3	94,000	8804633	

LARGE HORSEPOWER, AIR-COOLED REFRIGERATION UNIT WITH UNLOADERS FOR REMOTE CONDENSER					
Horsepower	Model Number	Voltage	R-507 Chiller Capacity <sup>1</sup> (Btu/h)	Part Number	List Price
15	RCU1501	230/3	128,800	9841118	
15	RCU1502	460/3	128,800	9841123	
25	RCU2501	230/3	174,200	9841120	
25	RCU2502	460/3	174,200	9841125	
30	RCU3001	230/3	209,100	9841121	
30	RCU3002	460/3	209,100	9841126	
35	RCU3501	230/3	263,600	9841122	
35	RCU3502	460/3	263,600	9841127	
40	RCU4002	460/3	309,800	9841128	

<sup>1</sup> Chiller capacities measured in Btu/h at 20°F evaporator and 110°F condensing temperature.

Unloader models are 45% for 15 horsepower; 25 and 30 horsepower are 50%; and 35 and 40 horsepower are 33%.

Freight included on orders of air-cooled refrigeration unit(s) that exceed \$50,000 list price.

# Water-Cooled Refrigeration Unit

## STANDARD FEATURES

- Copeland Discus™ compressor.
- Includes accumulator/heat exchanger.
- Large pump-down capacity.
- Dual pressure control, mounted and wired.
- Oil-pressure safety control, mounted and wired.
- Contactor mounted inside enclosure.
- Shipped with polyolester oil.
- Water valve provided.
- Service valves.
- Includes one-year limited compressor warranty.

Available in U.S.A. and Canada only.



LARGE HORSEPOWER, WATER-COOLED REFRIGERATION UNIT   R-507					
Horsepower	Model Number	Voltage	Chiller Capacity <sup>1</sup> (Btu/h)	Part Number	List Price
10	WC1001	230/3	103,300	8826927	
10	WC1002	460/3	103,300	8826988	

LARGE HORSEPOWER, WATER-COOLED REFRIGERATION UNIT WITH UNLOADERS   R-507					
Horsepower	Model Number	Voltage	Chiller Capacity <sup>1</sup> (Btu/h)	Part Number	List Price
15	WCU1501	230/3	141,500	8826989	
15	WCU1502	460/3	141,500	8826990	
25	WCU2501	230/3	193,400	8826993	
25	WCU2502	460/3	193,400	8826994	
30	WCU3001	230/3	231,800	8826995	
30	WCU3002	460/3	231,800	8826996	
35	WCU3501	230/3	291,000	8826997	
35	WCU3502	460/3	291,000	8826853	
40	WCU4002	460/3	341,100	8826999	

<sup>1</sup> Chiller capacities at 20°F evaporator and 100°F condensing temperature.

Unloader models are 45% for 15 horsepower; 25 and 30 horsepower are 50%; and 35 and 40 horsepower are 33%.

Freight included on orders of air-cooled refrigeration unit(s) that exceed \$50,000 list price.



PAUL MUELLER COMPANY

# NOTES



# PAUL MUELLER COMPANY

## Our Products and Services

### Skids and Integrated Systems

- Small Scale to Custom
- Automated Systems
- Modular Process Systems
- Water-for-Injection Distribution Skids

### Custom Tanks and Vessels

- Mixing, Storage, and Process
- Design and Fabrication
- Routine to Extreme Specialty Process

### Refrigeration Solutions

- Falling Film Chillers
- Batch Chillers
- Packaged Chillers
- Air-Cooled Condensing Units
- Heat Recovery
- Controls

### Clean Utilities

- Pure Steam Generators
- Multiple-Effect Stills
- Water-for-Injection Distribution Systems

### Heat Transfer Solutions

- Heat Transfer Surfaces
- Preformed Heat Transfer Panels
- Plate Heat Exchangers
- Replacement Parts
- Service and Repair

### Component Products

- Tank Heads
- Tank Shells
- Manways
- Agitators

### Cleaning Systems

- Clean-in-Place (CIP) Systems
- Chemical Dosing Systems

### Specialty Hauling with Mueller Transportation, Inc.

- Door-to-Door Specialty Handling
- Oversized Hauling Capabilities

# Who We Are

At Paul Mueller Company, we are united by a belief that the only quality that matters is quality that works for life. With every piece of processing equipment we build, our goal is to have lasting impact. This collective vision has led us from a small sheet metal shop to a global supplier of heating, cooling, processing, and storage solutions. Our equipment allows farmers, brewers, and engineers to keep their products fresh and their inventory strong. Whether our equipment preserves milk in rural areas or helps manufacture medicine with broad health benefits, we are making an impact across the globe.

Creating Quality  
for *Life*

## Industries We Serve

- Animal Health
- Battery Production and Recycling
- Beverage
- Brewing
- Chemical
- Dairy Farm
- Dairy Processing
- Food
- Heat Transfer
- HVAC
- Mining
- Oil and Gas
- Personal Care
- Pharmaceutical
- Refrigeration
- Tank Fabrication
- Wine
- And More

## Facilities and Resources

- Domestic Facilities With Nearly One Million Square Feet Under Roof
- Comprehensive Test Facilities for Factory Acceptance Testing
- Expert Fabricators and Manufacturing Staff
- Onsite, Experienced Engineering Department

## Project Support Services

- Comprehensive, Customizable Documentation Packages
- IQ/OQ Protocols and Execution
- Seamless Shipping with Mueller Transportation, Inc.
- Expanded Scope Facility Construction and Expansion
- Installation Supervision and Site Acceptance Testing

## Quality and Process Certification

- ASME (American Society of Mechanical Engineers)
- ASME BPE (American Society of Mechanical Engineers Bioprocessing Equipment Standard)
- API (American Petroleum Institute)
- UL (Underwriters Laboratories)
- CSA (Canadian Standards Association)
- PED CE (Pressure Equipment Directive Certification)
- UKCA (United Kingdom Conformity Assessed)
- CRN (Canadian Registration Number)
- TSSA (Technical Standards and Safety)

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