

# Accu-Therm® Plate Coolers



**MUELLER**

# Mueller® Accu-Therm® Plate Coolers

## Enhance Cooling Capacity On Your Dairy Farm

Paul Mueller Company Accu-Therm® plate coolers, also known as plate heat exchangers, let you use your existing water supply to precool warm milk before putting it in your milk cooler. An Accu-Therm plate cooler can cut the operating time of your refrigeration system up to 50 percent while reducing the temperature of incoming milk up to 30°F (16.6°C). Save energy and money while enhancing your milk quality.

Accu-Therm plate coolers have a series of sanitary (type 316) stainless steel plates compressed in a frame. Separated by gaskets to contain pressure and control flow, these plates form channels. Fluids run through these channels. When using plate coolers on a dairy farm, cool water flows up the channel on one side while warm milk flows in the opposite direction on the other side. The milk's temperature drops as its heat transfers to the cool water. Corrugated plate design enhances heat transfer capabilities for ultraefficient, fast precooling.

Used in conjunction with a Mueller chiller, an Accu-Therm plate cooler can cool milk down to 37°F (2.8°C) in less time, which maintains high milk quality and impedes bacteria growth. We help you size the appropriate Accu-Therm plate cooler for your dairy operation with single-pass, dual-pass, or multi-pass multi-duty model options. The single-pass and dual-pass units are designed for well water precooling. The multi-pass multi-duty units are designed for well water precooling and chilled water instant cooling. A precooling only multi-pass unit is also available.

## Features and Benefits

- Save up to 50 percent on energy costs when you **use municipal or well water to precool milk**, significantly reducing operating time and wear-and-tear of your cooler's refrigeration system.
- Durable, rust-resistant, **type 304 stainless steel end frames and stainless steel compression bolts** are maintenance free with no paint to crack or peel.
- All AT20 models have **snap-in gaskets** for ease of inspection.
- A **clean-in-place system** helps reduce maintenance efforts.
- Each plate cooler contains **top-quality, type 316 stainless steel plates** for sanitary milk contact surface.
- Our standard models are carefully designed to meet most applications. In the case of very large dairies, or those with other considerations, we can also **custom configure a heat exchanger** to your specific needs.



## MUELLER WALL-MOUNT ACCU-THERM PLATE COOLER SPECIFICATIONS

Part No.	Model	No. of Plates	No. of Passes				Shipping Weight (lbs.)
			Well Water		Chilled Water		
			Milk	Water	Milk	PG <sup>2</sup>	
<b>SINGLE-PASS</b>							
9816136	AT4DSW-31	31	1	1	---	---	95
<b>DUAL-PASS</b>							
9816138	AT4DSWD-61	61	2	2	---	---	120
9816145	AT10DSWM-40	40	2	2	---	---	263
<b>MULTI-PASS, MULTI-DUTY<sup>1</sup></b>							
9403438	AT4DSWM-70	70	1	1	3	1	132
9816146	AT10DSWM-50	50	1	1	2	1	284
<b>MULTI-PASS, SINGLE-DUTY<sup>3</sup></b>							
9861033	AT10DSWD-52	52	---	---	2	1	287

## MUELLER FLOOR-MOUNT ACCU-THERM PLATE COOLER SPECIFICATIONS

Part No.	Model	No. of Plates	No. of Passes				Shipping Weight (lbs.)
			Well Water		Chilled Water		
			Milk	Water	Milk	PG <sup>2</sup>	
<b>MULTI-PASS, MULTI-DUTY<sup>1</sup></b>							
9816148	AT10DSFM-91	91	1	1	3	1	530
9831128	AT20DSFM-91	91	1	1	5	1	1,407
9831129	AT20DSFM-130	130	2	1	4	1	1,605
<b>HIGH-EFFICIENCY, MULTI-PASS, MULTI-DUTY<sup>1</sup>, PORTED TERMINAL</b>							
9404352	AT4DSFMP-119	119	3	3	1	1	244
9404255	AT10DSFMP-96	96	2	2	2	1	600
9830581	AT20DSFMP-76	76	2	2	2	1	1,485
9831117	AT20DSFMP-96	96	2	2	4	1	1,547
9402443	AT20DSFMP-174	174	2	2	6	1	1,788
9403498	AT20DSBMP-270	270	4	4	4	1	2,063
9404462	AT40DSBMP-169	169	2	2	2	2	2,757
<b>HIGH-EFFICIENCY, MULTI-PASS, MULTI-DUTY<sup>1</sup>, PORTED TERMINAL</b>							
9830605	AT20DSF-48	48	4	4	---	---	1,152

Accu-Therm plate coolers (heat exchangers) for other applications and flows are available upon request.

<sup>1</sup>All connections are clamp-type fittings

<sup>2</sup>Propylene glycol

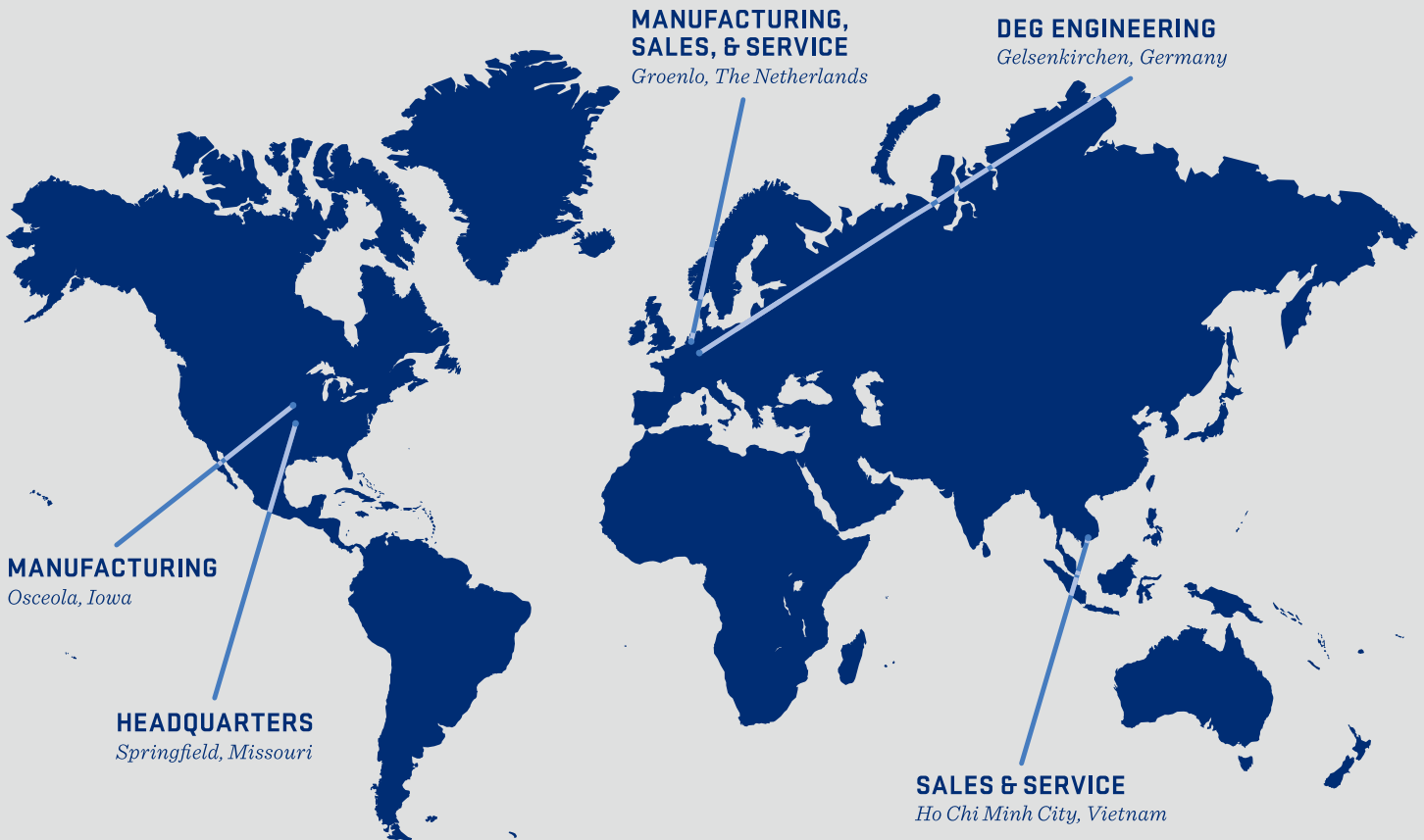
<sup>3</sup>For use with chilled water only

# PAUL MUELLER COMPANY

## PAUL MUELLER, OUR FOUNDER



At Paul Mueller Company, we are united by a belief in quality that works for life. Our goal is to have lasting impact with every piece of processing equipment we build. This collective vision has led us from a small sheet metal shop into 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.



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