

# ACCU-THERM<sup>®</sup> PLATE COOLERS



**YOUR EXISTING WATER  
SUPPLY PRECOOLS MILK**

Enhance cooling capacity  
on your dairy farm.

Learn more at [PaulMueller.com](http://PaulMueller.com).

**MUELLER**

# MUELLER® ACCU-THERM® PLATE COOLERS

*Enhance Cooling Capacity  
on Your Dairy Farm*

## STANDARD FEATURES

- ▶ 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.

## ACCU-THERM PLATE COOLERS

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.



# TECHNICAL SPECIFICATIONS

## WALL-MOUNT ACCU-THERM PLATE COOLER

MODEL NUMBER	MUELLER PART NUMBER	NUMBER OF PLATES	NUMBER OF PASSES				SHIPPING WEIGHT (LBS.)
			WELL WATER		CHILLED WATER		
			MILK	WATER	MILK	PG <sup>2</sup>	
				SINGLE-PASS			
AT4DSW-31	9816136	31	1	1	—	—	95
				DUAL-PASS			
AT4DSWD-61	9816138	61	2	2	—	—	120
AT10DSWM-40	9816145	40	2	2	—	—	263
			MULTI-PASS, MULTI-DUTY <sup>1</sup>				
AT4DSWM-70	9403438	70	1	1	3	1	132
AT10DSWM-50	9816146	50	1	1	2	1	284
			MULTI-PASS, SINGLE-DUTY <sup>3</sup>				
AT10DSWD-52	9861033	52	—	—	2	1	287

## FLOOR-MOUNT ACCU-THERM PLATE COOLER

MODEL NUMBER	MUELLER PART NUMBER	NUMBER OF PLATES	NUMBER OF PASSES				SHIPPING WEIGHT (LBS.)
			WELL WATER		CHILLED WATER		
			MILK	WATER	MILK	PG <sup>2</sup>	
			MULTI-PASS, MULTI-DUTY <sup>1</sup>				
AT10DSFM-91	9816148	91	1	1	3	1	530
AT20DSFM-91	9831128	91	1	1	5	1	1,407
AT20DSFM-130	9831129	130	2	1	4	1	1,605
			HIGH-EFFICIENCY, MULTI-PASS, MULTI-DUTY <sup>1</sup> , PORTED TERMINAL				
AT4DSFMP-119	9404352	119	3	3	1	1	244
AT10DSFMP-96	9404255	96	2	2	2	1	600
AT20DSFMP-76	9830581	76	2	2	2	1	1,485
AT20DSFMP-96	9831117	96	2	2	4	1	1,547
AT20DSFMP-174	9402443	174	2	2	6	1	1,788
AT20DSBMP-270	9403498	270	4	4	4	1	2,063
AT40DSBMP-169	9404462	169	2	2	2	2	2,757
			HIGH-EFFICIENCY, MULTI-PASS, MULTI-DUTY <sup>1</sup> , PORTED TERMINAL				
AT20DSFM-48	9830605	48	4	4	—	—	1,152

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

1 All connections are clamp-type fittings

2 Propylene glycol

3 For use with chilled water only

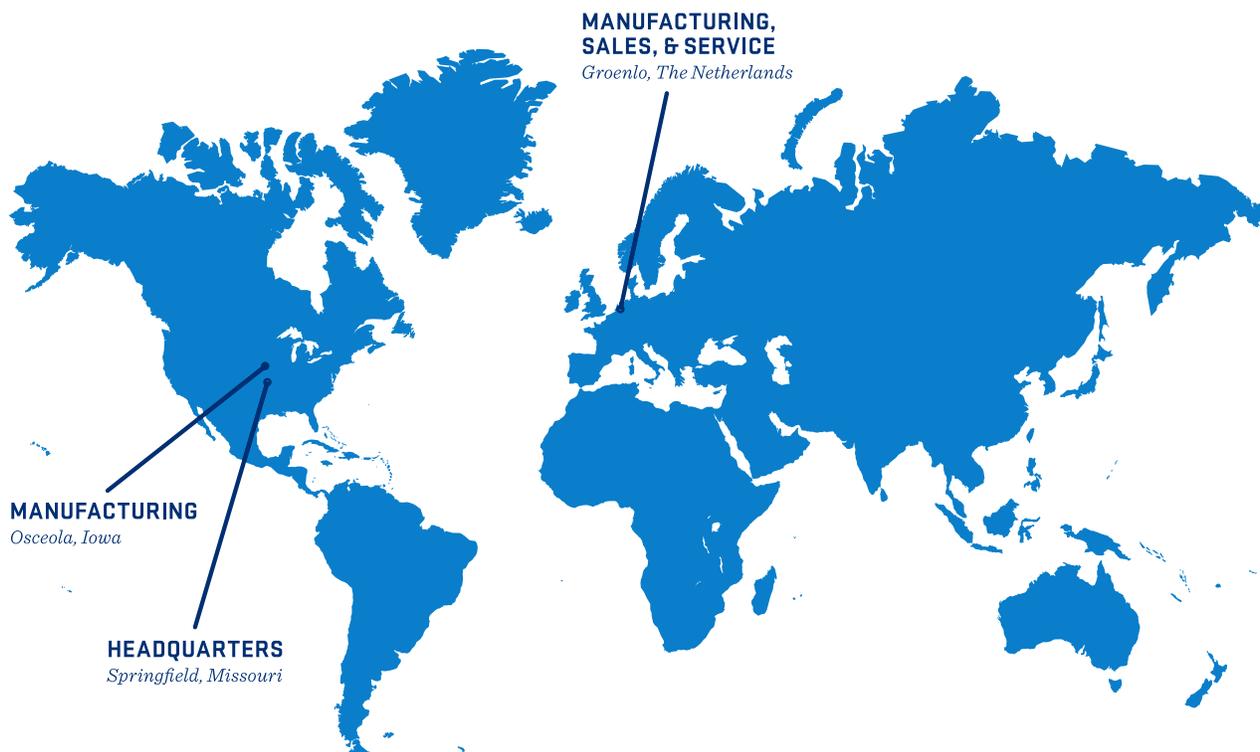


Paul Mueller, Our Founder



# PAUL MUELLER COMPANY

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.



**MANUFACTURING,  
SALES, & SERVICE**  
*Groenlo, The Netherlands*

**MANUFACTURING**  
*Osceola, Iowa*

**HEADQUARTERS**  
*Springfield, Missouri*



## COOLING THE WORLD'S MILK

The commitment and prosperity of local dairy farmers lays a foundation for strong communities around the globe.

dairyfarm@paulmueller.com  
**1-800-MUELLER | PAULMUELLER.COM**

©2021 Paul Mueller Company | DFESGF APCP-001

