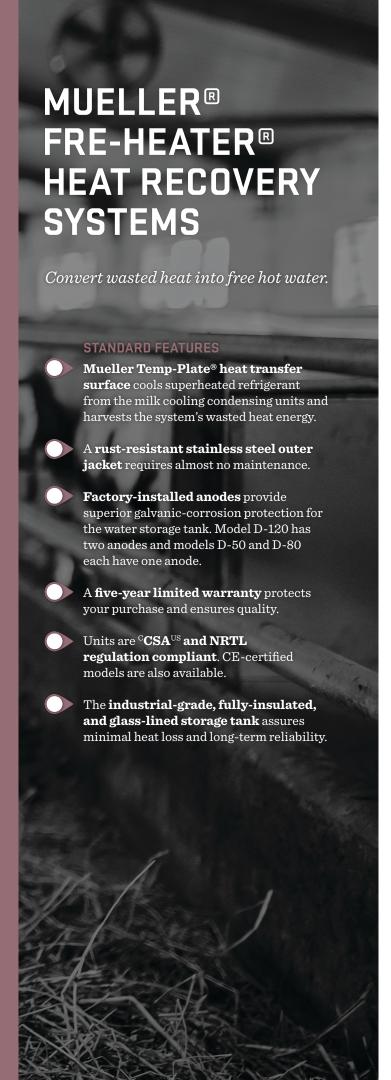
FRE-HEATER® HEAT RECOVERY SYSTEMS

Learn more at **PaulMueller.com**.



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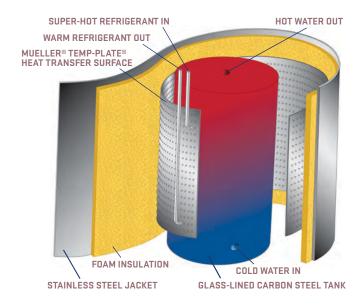
FRE-HEATER HEAT RECOVERY SYSTEM



Whether your dairy farm operation is large or small, you need plenty of hot water for equipment cleanup, cow prepping, and feeding calves. Paul Mueller Company's Fre-Heater® recovers wasted heat from your milk-cooling system and uses it to heat water you can use around your farm. Adding a Mueller® Fre-Heater to your system drastically reduces the cost of hot water in your operation, enhancing your profitability.

The Model D Fre-Heater consists of a heavyduty, glass-lined storage tank surrounded by stainless steel Mueller Temp-Plate® heat transfer surface for maximum heating efficiency. Two-inch foam surrounds the Temp-Plate, keeping heat within the tank. A rust-resistant, stainless steel outer jacket houses the entire assembly for protection and a finished appearance. The Mueller Model D recovers 45 to 60 percent of your system's wasted heat energy, depending on the refrigerant type. It is available in 50-, 80-, and 120-gallon sizes to meet your specific hot water needs.

The Mueller Model DE Fre-Heater is similar in construction to the Model D Fre-Heater and recovers up to 60 percent of your system's wasted heat energy. A 4.5-kilowatt heating element is included for maintaining 120 to 170°F water. The Model DE is available in a 120-gallon size.





TECHNICAL SPECIFICATIONS

MODEL Number²	NUMBER OF REFRIGERATION CIRCUITS	REFRIGERATION CONNECTION SIZE	REFRIGERATION PER CIRCUIT CAPACITY ¹	DIMENSIONS		APPROXIMATE	DART
				HEIGHT (INCHES)	DIAMETER (INCHES)	SHIPPING WEIGHT (LB)	PART NUMBER
D-50	1	.625" OD	6,000 to 48,000 Btuh R-507	53.88	21.75	225	8828038
D2-50	2	.625" OD	6,000 to 48,000 Btuh R-507	53.88	21.75	225	8828037
D-80	2	.75" OD	12,000 to 60,000 Btuh R-507	58.63	25.25	320	8828036
D-120	2	.75" OD	12,000 to 90,000 Btuh R-507	61.75	29.50	475	8828032
D2-120	2	1.125" OD	36,000 to 180,000 Btuh R-507	61.75	29.50	475	8828030
DH-120	2	1.625" OD	84,000 to 420,000 Btuh R-507	61.75	29.50	475	8828029
DHS-120	1	1.625" OD	168,000 to 840,000 Btuh R-507	61.75	29.50	440	8825141
DE-120 ³	2	1.125" OD	36,000 to 180,000 Btuh R-507	61.75	29.50	475	8828034

 $^{1\ \} Refrigeration\ tonnage\ capacities\ are\ 30^{\circ}F\ evaporator\ ton\ loads,\ not\ total\ heat\ of\ rejection\ tons.\ Pressure\ drop\ through\ a\ Fre-Heater\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ will\ be\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ approximately\ 15\ psi\ at\ the\ refrigeration\ circuit\ approximately\ 15\ psi\ at\ approxim$ maximum tonnage capacities are 30°Fevaporator tonnadas, not total near of rejection tons. Fressite drop through a Fre-Freater refrigeration/heat recovery system efficiency is usually obtained at or below the mid-range tonnage application.

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.

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.



Paul Mueller, Our Founder



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.





COOLING THE WORLD'S MILK

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

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