

FALLING FILM CHILLERS

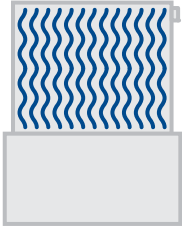


MUELLER[®]

THE MILK COOLING SYSTEMS SPECIALISTS[™]

MUELLER® FALLING FILM CHILLERS

Provides Faster Cooling and Lower Energy Costs!



Mueller® falling film chillers cool water that is pumped through an Accu-Therm® plate heat exchanger. Faster cooling of warm milk is achieved via this process. Rapid cooling inhibits bacteria growth and ensures higher quality milk. Another benefit of Mueller falling film chillers is their expandability — they can utilize anywhere from 2 to 16 stainless steel Temp-Plate® evaporator plates. You can invest less initially and add plates as cooling needs increase over time.

In addition to the falling film chiller, a complete chiller system requires a circulating pump, one or more refrigeration units, refrigeration tubing, and an Accu-Therm plate heat exchanger. The refrigeration units circulate refrigerant through evaporator plates within the chiller and drop the temperature of the reservoir water supply. Chilled water then flows from the chiller through the plate heat exchanger where warm milk is passing in the opposite direction. The warm milk transfers its heat to the water before flowing into the milk storage vessel. The warm water in the plate heat exchanger then flows back to the chiller for recooling.



Mueller Falling Film Chiller Features and Benefits

- **Stainless steel water contact surfaces and outer jacket** — Provides longer life than galvanized steel; reduces possibility of leaks.
- **Patented Temp-Plate heat transfer surface** — Provides the most efficient cooling possible and eliminates evaporator ice buildup.
- **Energy-efficient design** — Refrigeration units can be staged to cool varied milk flows, using less horsepower at low milk flows and saving on energy costs.
- **Low milk cooling costs** — The refrigeration unit operates only during milking, reducing milk cooling costs.
- **Designed for compact spaces** — Foot print of only 18 to 53 square feet.
- **Limits water usage** — Closed loop system recycles water through the system, using only 150 to 650 gallons of water.
- **Easy access to chiller functions** — The control cabinet is equipped with controls for temperature, circulator pump, and on/off operation.
- **Two cabinet models available** — Expandability from 2 to 16 plates.
- **Sizes available to fit any dairy** — 10 hp to 160 hp units are available to accommodate your individual needs.

Mueller Falling Film Chiller Specifications

Model	No. of Evaporators	Nominal Operating Capacity		Length (in)	Width (in)	Height (in)
		(gal)	(liters)			
NS-R	2-8	150	568	68 ¹ / ₂	36 ¹ / ₂	76
NS-R	7-12	300	1,135	68 ¹ / ₂	60 ¹ / ₂	76
LNS-R	2-8	325	1,230	104 ³ / ₈	39 ¹ / ₈	93 ¹ / ₄
LNS-R	9-16	650	2,460	104 ³ / ₈	72 ³ / ₈	93 ¹ / ₄



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