



Dari-Kool® Falling Film Chiller

The premier milk cooling system for large dairies

The Dari-Kool falling film chiller is a highly efficient, large capacity chiller designed for the needs of today's growing dairies. Whether used to add to existing cooling in expanding dairies, or for 100% total instant cooling in new applications, the Dari-Kool falling film chiller has proven to be a dependable, economical, and highly efficient source of chilled water for your pre-cooling system.

Stainless steel falling film chiller plates mount vertically in the enclosed stainless steel cabinet. Warm coolant water enters the cabinet at the top and fills a distribution pan, which



evenly distributes the water across and down both sides of the cooling plates. The full-flow, non-circuited

design of the Dari-Kool falling film chiller plates offers greater capacity with lower refrigerant pressure drop. This results in fast and more economical cooling.



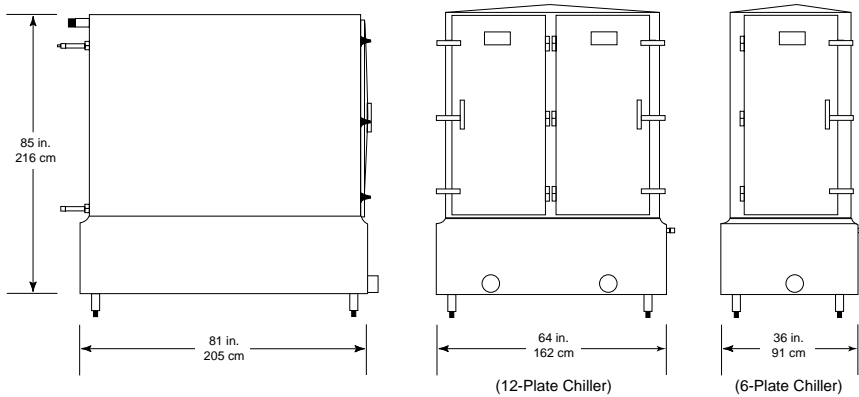
Falling film chillers are more efficient than conventional "barrel" chillers. The vertical falling film chiller cooling plate uses the same highly efficient method of transferring heat from the coolant to the refrigerant as the plate cooler uses in transferring the milk heat to the coolant. Industry tests have indicated that this flat plate type heat exchanger design is much more efficient than either the tube-in-shell - or "barrel"- chiller, or the tube-in-tube type chiller.

The falling film chiller design is easier to inspect and maintain than other types of large capacity chillers and the open plate design is easier to clean. Occasional ice build-up will not affect coolant flow or cause

damage to the evaporator. The falling film chiller is ideal for expanding dairies. It can be ordered so that extra plates can be added when the dairy's production increases. This reduces the cost to add extra capacity to your chiller system, unlike other fixed designs.

The Dari-Kool falling film chiller is available in 6-plate cabinets with from two to six cooling plates capable of 60 to 180 gallons per minute of chilled water, with a load of from 10 hp or 120,000 Btuh to 45 hp or 380,000 Btuh*. The large 12-plate cabinets are available with from six to twelve plates, capable of 210 to 360 gallons per minute of chilled water, with a load of from 35 hp or 420,000 Btuh to 90 hp or 820,000 Btuh*.

**Refrigeration capacity is dependent on coolant temperature, compressor capacity and condensing temperature.*

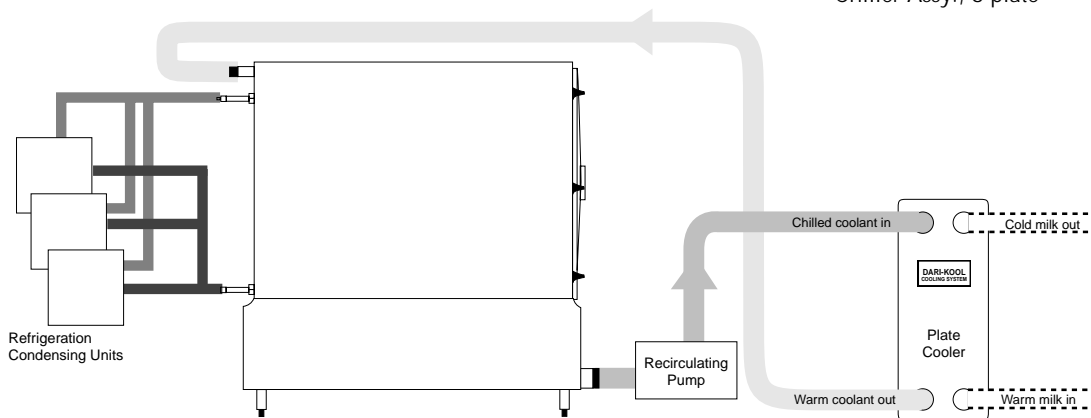


Falling film chillers using 12-plate cabinets

Description	Shipping Wt. (lbs.)
Chiller Assy., 6 plate	2650
Chiller Assy., 7 plate	2750
Chiller Assy., 8 plate	2850
Chiller Assy., 9 plate	2950
Chiller Assy., 10 plate	3050
Chiller Assy., 11 plate	3150
Chiller Assy., 12 plate	3250

Falling film chillers using 6-plate cabinets

Description	Shipping Wt. (lbs.)
Chiller Assy., 2 plate	1250
Chiller Assy., 3 plate	1350
Chiller Assy., 4 plate	1450
Chiller Assy., 5 plate	1550
Chiller Assy., 6 plate	1650



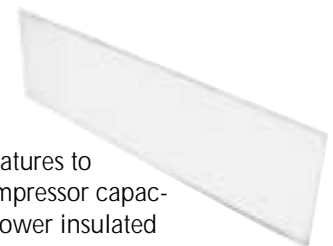
Dari-Kool® falling film chillers supply a continuous flow of chilled water to Dari-Kool plate coolers. The chiller provides “instant” cooling of milk before it enters the bulk tank to help maintain the highest milk quality. Dari-Kool falling film chillers are available in 2- to 6-plate configurations using the 6-plate cabinet, and in 6- to 12- plate configurations using the 12-plate cabinet. All 6-plate cabinets are fitted with a 6-plate water distribution trough, and 12-plate cabinets are fitted with two 6-plate troughs, to make adding additional plates easy and economical.

**Actual capacity may vary depending on operating temperature and flow rate.*

- Reservoir capacity:
 - 140 gallons - 6-plate cabinet (198 gallon maximum)
 - 280 gallons - 12-plate cabinet (379 gallon maximum)
- For use with R-12, R-22, R-502 refrigerant
- Water flow rate - 35 gpm per plate
- Refrigerant capacity per plate - 5-ton, 60,000 Btuh*
- Water inlet(s):
 - One 2”M NPT inlet on 6-plate chillers
 - Two 2”M NPT inlets on 12-plate chillers
- Water outlet:
 - One 3”M NPT outlet on 6-plate chillers
 - Two 3”M NPT outlets on 12-plate chillers

• **Optional: Cooler Reservoir Partition Plate**

The partition divider plate allows a 12-plate chiller cabinet to provide two coolant temperatures to dual coolant plate coolers, and maximize compressor capacities. The partition plate effectively splits the lower insulated coolant reservoir in two, so that separate temperatures can be run on each side of a 12-plate chiller cabinet. Optional partition plate can be field installed or installed at the factory.



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