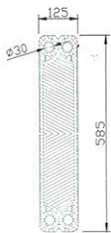


# Eco Plate Cooler



Ref.: 995



Ref.: 996



Ref.: 997



Ref.: 999



Ref.: 903

Melker Milk Cooling Plates are basically designed to cool milk. However they have many other uses, such as cooling or heating any other type of liquid (by temperature exchange between two liquids).

Both cooling plates and the frames are manufactured from stainless steel. They are self-cleaning, being cleaned by their own washing system. They are designed for easy assembly and dismantling, thus they can be thoroughly washed when necessary.

They are easily adapted to new and old installations, and offer great efficiency with a capacity of 4.000 litres per hour. They come in two models: the "F" model with a circuit for water and the "FF" model with two circuits for water.

The "F" model is basically a pre-cooler and pre-heater. The "FF" model does the complete desired cycle. For example it can cool the milk to 2 degrees or heat it to 90 degrees. (Any other temperatures are possible.)

Using the Melker exchange plates between the receiver and the storage tank in a milking installation will save more than 50% of the electricity used by the tank cooling group during each milking session, thus paying for itself in a short time.

The Melker plate coolers also play a large role in the bacteriological quality of the milk; it cools instantly, thus impeding the growth of bacteria.



## MODEL F

REF.	N.° PLATES	MILK FLOW L/h	WATER FLOW L/h
9950	19	950	2750
9951	21	1200	3500
9952	25	1450	4100
9953	27	1650	4850
9954	31	1900	5450
9955	37	2350	5850
9956	43	2750	6450
9957	49	3250	6950
9958	55	3650	7250

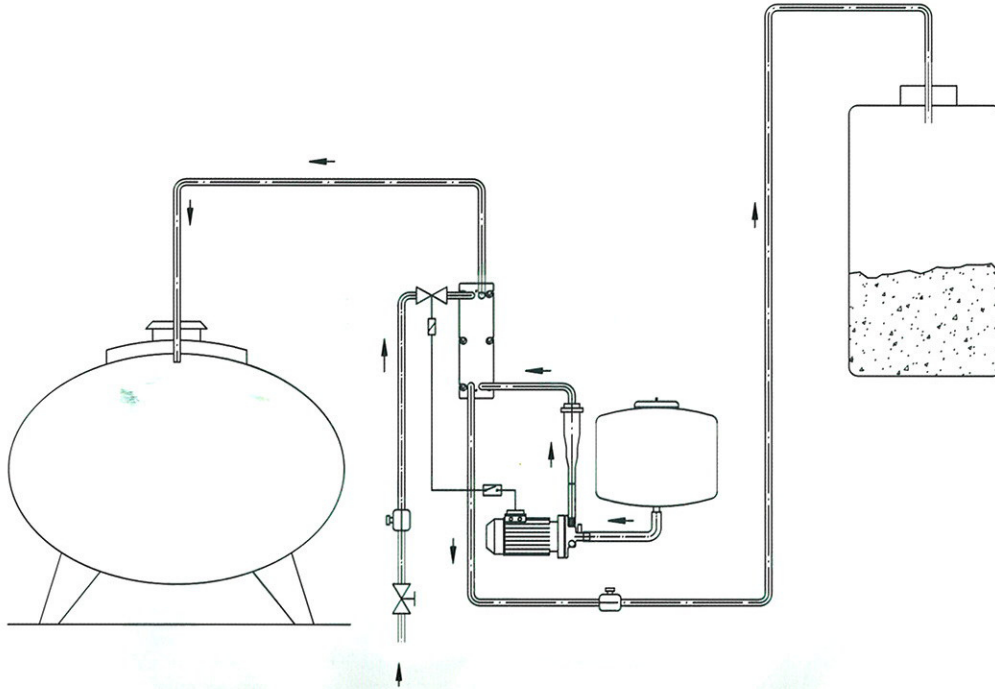
The "F" model reduces the milk temperature to 3.° C above the water temperature.

## MODEL FF

REF.	N.° PLATES	MILK FLOW L/h	WATER FLOW L/h
9960	30	900	2750/2750
9961	38	1150	3500/3500
9962	42	1350	4100/4100
9963	50	1600	4850/4850
9964	54	1850	5450/5450
9965	56	2300	5850/5850
9966	78	2700	6850/6850
9967	94	3600	7450/7450

The "FF" model reduces the milk temperature to 2.° C above the water temperature.

# Eco Plate Cooler



• Work pressure test about small milk plate cooler, model F 57

Milk Flow	Bar. Pressure	
	Milk Inlet	Milk Outlet
6.000 L/h	0,20 Bar	0,05 Bar.
3.000 L/h	0,08 Bar	0,01 Bar.
2.000 L/h	0,02 Bar	0,003 Bar.
1.000 L/h	0,01 Bar	0,001 Bar.

• "X" coefficient test about small milk plate cooler, model F 57

Liquid	Flow	Temperature °C	
		Inlet	Outlet
Water	4.500 L/h.	22,5 °C	
Milk	1.450L/h.	36,0 °C	24,5 °C

Temperature transmission relation: 3 to 1

• "X" coefficient test about small milk plate cooler, model F 57

Liquid	Flow	Temperature °C	
		Inlet	Outlet
Water	6.000 L/h.	22,5 °C	
Milk	2.000 L/h.	36,0 °C	24,5 °C

Temperature transmission relation: 3 to 1

Liquid	Flow	Temperature °C	
		Inlet	Outlet
Water	4.000 L/h.	12,0 °C	
Milk	2.000 L/h.	35,0 °C	15,0 °C

Temperature transmission relation: 2 to 1

• Small milk plate cooler tighten:

The smallest size for plate tighten is 2,8 mm.

The maxim size for plate tighten is 3,0 mm.

Example: Small plate cooler, model F 30

Smallest size:  $30 \times 2,8 = 84$  mm.

Maxim size:  $30 \times 3,0 = 90$  mm.