



GEA Farm Technologies

Plate Coolers

For lower production costs and improved milk quality

- Reduces the energy requirement for cooling milk
- Rapid cooling suppresses bacterial growth
- Designed to handle output from fast throughput milking parlours
- High quality stainless steel construction provides hygienic surfaces inside and out as well as durability

Reduce energy use and the costs of milk production



The plate cooler is an essential part of any cooling system. Rapid reduction in milk temperature protects milk quality by suppressing bacterial growth. Dramatic savings in electricity and compressor wear and tear ensure optimum performance at all times.

A single-bank plate cooler consists of a series of stainless steel plates. Warm milk flows through alternate plates in one direction whilst cold water flows through the remaining plates in the opposite direction removing heat from the milk. A double bank plate cooler has two sets of plates, so the milk and water pass through twice thus improving the efficiency of heat exchange. A correctly-sized plate cooler will reduce the temperature of the milk to a-b°C (single-bank) or c-d°C (double bank).

There are a number of options for using the residual warm water from the plate cooler. For example, it may be used as part of a heat recovery system for heating wash water, for pre-rinsing the milking equipment, or for washing down the parlour at the end of milking.

The GEA Farm Technologies plate cooler leads the way in milk cooling technology. High capacity plates that are 50% larger than the normal size maximise the area of the cooling surface and minimise the pressure drop. 40mm milk inlets/ outlets and 1½" BSP water inlets/outlets ensure unrestricted flow through the plate cooler. A complete stainless steel construction prevents rusting of frame and provides longevity.

Plate cooler selection

Plate cooler selection depends on the flow of milk coming from the milk pump, with fast-throughput parlours demanding a larger capacity plate cooler for maximum efficiency. However, oversizing of the plate-cooler should be avoided, since this will result in the use of excessive amounts of water for little or no additional cooling benefit.

Model No	WPC 75/S35	WPC 100/S45	WPC 150/S55	WPC 75/D32-32	WPC 100/D42-42	WPC 150/D52-52
Suitable for milk pump of capacity	7,500 litres/hour	10,000 litres/hour	15,000 litres/hour	7,500 litres/hour	10,000 litres/hour	15,000 litres/hour
Single / double bank	Single	Single	Single	Double	Double	Double
No of plates	35	45	55	32+32	42+42	52+52



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