

DeLaval plate heat exchanger

Precision engineering for rapid milk temperature reduction



DeLaval plate heat exchanger BMSS



DeLaval plate heat exchanger BHSS



DeLaval plate heat exchanger BM

Efficient cooling

DeLaval proudly offers a wide range of durable plate heat exchangers newly designed to efficiently cool your dairy farm's milk.

Reliable milk quality maintenance

Milk is primarily refrigerated to maintain its quality for as long as possible and reducing the milk's temperature reduces the growth of bacteria. On-farm milk cooling is more cost efficient by pre-cooling the milk - using well water through a heat exchanger - before it enters the milk tank for cooling by refrigeration. To maintain

maximum quality milk, it is vital that both these cooling stages work efficiently. Optimising the efficiency of pre-cooling milk before it enters the bulk tank, requires the correct water-to-milk flow rate. We recommend a water-to-milk flow rate of 2.5 : 1 for our BM range and 2 : 1 for our BH range.

Your cost-saving investment

Pre-cooling reduces the cooling load and thus the energy required. Associated costs, are also reduced. A correctly sized DeLaval plate heat exchanger package can save you up to 60 percent of your refrigeration energy costs.





Designed for optimum efficiency

To meet your farm's requirements for milk pre-cooling, the DeLaval plate heat exchanger range comprises three sizes for medium milk flow rates and five sizes for higher milk flow rates. With your budget in mind, you can select from the effective BM PR 23, 37 or 51 plate options - framed in either aluminium or stainless steel. The BH PR 23, 35, 47, 61 or 73 plate options for higher milk flow rates, are all supplied with stainless steel frames.

The stainless steel DeLaval plate heat exchanger is a long lasting, non-rusting and an easy-to-clean pre-cooling solution. Clip-on gaskets make it easy and quick to service, keeping maintenance costs to a minimum. The effective block and bleed gasket seal design ensures your milk does not mix with the cooling water.

Type	Number of plates	Flow rate of milk litres per min	Water required to optimise cooling (water:milk)	Inlet size Water/milk	Aluminium frame	Stainless steel frame
BM PR-23	23	21	2.5:1	1" BSP / 40mm	•	o
BM PR-37	37	38	2.5:1	1" BSP / 40mm	•	o
BM PR-51	51	55	2.5:1	1" BSP / 40mm	•	o
BH PR-23	23	33	2:1	2" ss / 2" ss		•
BH PR-35	35	66	2:1	2" ss / 2" ss		•
BH PR-47	47	100	2:1	2" ss / 2" ss		•
BH PR-61	61	133	2:1	2" ss / 2" ss		•
BH PR-73	73	166	2:1	2" ss / 2" ss		•

- = standard
- o = optional