



Dairy Cooling Solutions
A Division of Eurotec Limited

Packo

ICE BUILDER for MILK COOLING

PIB 230-370

238 - 374 kW



Application

- ›Ice water has been used for many years in dairy farms and collection centres because it can cool large amounts of milk in a very short time.
- ›A lot of ice can be stored on a small area, which results in a compact space saving unit. Thanks to this large ice reserve; a huge amount of ice water at zero degrees can be produced.
- ›With automatic milking systems there is no risk of freezing even the smallest quantities of milk.

Characteristics

- ›Construction of thick stainless steel sheets (18/10 – AISI 304) ensuring a long lifetime.
- ›Insulation between outer and inner vessel with environmental friendly PU-foam.
- ›This "sandwich" construction gives a very rigid and stable structure.
- ›Prevention of thermal losses; improvement of low energy consumption.
- ›The well dimensioned evaporator enables the storage of a large ice reserve, this guaranties a maximum cold transfer.
- ›The evaporator is made of seamless copper tubes and mounted in a stainless steel frame for a long lifetime.

Ice builder controls

- ›Electrical control box incorporated (without cooling unit controls).
- ›An accurate ice thickness sensor activates the cooling system until an equal layer of ice is formed on all evaporator tubes.
- ›The thermostatic expansion valves are pre-mounted.

Ice water agitation

Two high pressure three phase airblowers push compressed air through a PVC collector on the bottom of the ice-builder for an even meltdown of the ice.

Cooling

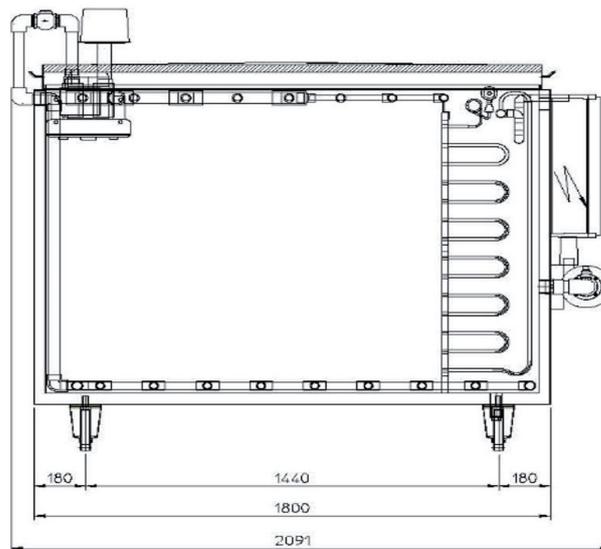
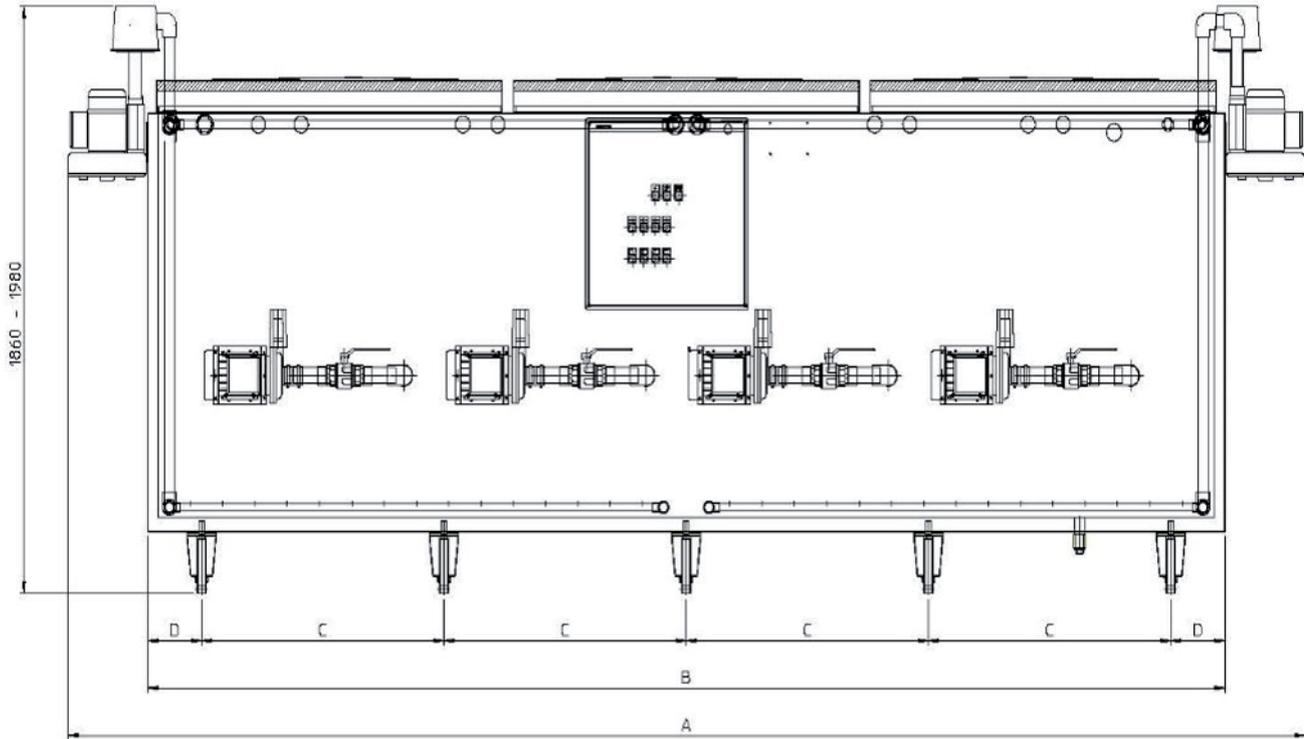
The ice water coming from the ice accumulator is transported with three phase icewater pumps through the heat exchanger(s) of a DIB tank.

Instant cooling

The milk flows through a tubular or plate heat exchanger before entering the milk cooling tank. Ice water flows through this heat exchanger in the opposite direction. The milk is cooled to storage temperature before it enters the tank. Instant cooling requires minimum one extra ice water pump.

Available options

- ›Time clock for use of night rate electricity.
- If the ice accumulator is used in combination of a Packo milk cooling tank with Dolphin control, a night clock is already integrated in the Dolphin control unit with versions from 2.0. onwards.
- ›Minimum ice thickness sensor.
- ›Electronic level control ice water.
- ›Extra ice water pump for instant cooling.
- ›Anti frost protection.



PIB 230 - 370 Dimensions

Model	Cool. cap. kWh	Cool. cap. Kcal	Ice kg	A mm	B mm	C mm	D mm	Legs number	Net weight kg
230	238,4	205005	2563	3260	2665	755	200	8	1050
370	374,6	322150	4027	4594	4000	900	200	10	1415



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www.daircoolingsolutions.nz T: 09 579 1990 E: sales@eurotec.co.nz

Subject to modifications. The photographs and descriptions provided are intended as a guide and may not always exactly match the items supplied.