

# Vertical milk cooling tank & Ice Builder

VM/DIB & VM/DX 

The Packo vertical milk cooling tank with direct expansion (DX) or ice water (DIB) is an ideal solution when you have shortage of space, much less floor surface is required compared to a large horizontal tank. Avoid building costs and save space by placing your tank outside.

The outer jacket and inner tank are fully made of stainless steel AISI 304. The construction, following industrial standards, ensures an almost unlimited lifespan and a high second hand value. The tank is insulated with PU foam insulation insuring minimum heat losses. In other words, the tank is made to be installed outside where the tank control and the milk truck connection are placed inside the building.

The highest standards regarding food hygiene are respected, this means that there is no risk of contamination. Because of the large tank outlet (80 mm) and the inclined construction of the bottom, the milk is evacuated rapidly but treated very gently without the risk of fat separation.

The efficient Packo cleaning system, with powerful stainless steel pump and two strategically installed spray balls, guarantees that the tank is thoroughly cleaned. The Dolphin tank control with automatic dosing pumps for detergents is standard and gives an accurate concentration of cleaning agents to ensure low consumption.

Capacity: 12,000 to 35,000 Litres

2, 4 & 6 Milkings and AMS milking

## PIB

The Packo Ice Builder is the result of many years of experience in cooling liquids for the dairy- and food industry. The PIB is the heart of the DIB system, it builds up an ice reserve with which it can make a large amount of ice water at zero degrees.

The PIB is constructed of thick stainless steel plates (AISI 304) for a long lifetime. Environmental friendly PU-foam is injected between the interior and exterior housing for insulation. The insulation has a thickness of 50 mm to ensure a completely vapour-tight construction. This prevents thermal losses and improves low energy consumption.

The standard PIB is supplied with a powerful pump that transports the ice water (see principal previous page) through the heat exchanger in the DIB tank. A rapid cooling, **without the risk of freezing**, of your valuable milk is ensured. **Bacteria don't stand a chance!**

Possible options include an extra ice water pump for instant cooling and a time clock for the use of **cheaper night-rate electricity**.

Cooling capacity: 8 – 372 kWh



### Alcove

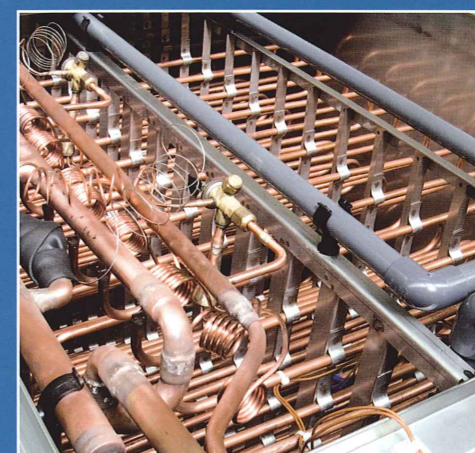
An alcove facilitates the installation of the tank. The tank is placed in face of a large opening in the wall. The Dolphin tank control, the bottom filling and the self washing milk outlet with 80 mm butterfly valve and milk tanker connection are mounted on the tank. They can easily be reached from the inside.



### Bottom filling

The bottom filling allows the milk to enter the tank very gently, thus avoiding fat separation. A large non return valve prevents the milk to flow back from the tank into the milkline.

With a single action one butterfly valve is closed and the second one is opened. The milk cannot enter the tank anymore and the milkline can be cleaned together with the milking parlour.



### PIB evaporator

The evaporator of the PIB is made from seamless copper tubes and mounted in a stainless steel frame, a long lifetime is ensured.