

 **AKVATERM**

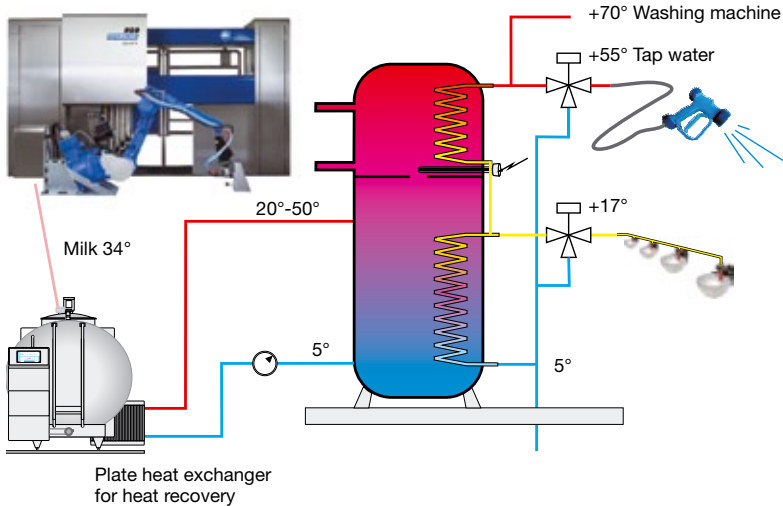


**AKVA FARM**

Use the heat from milk cooling

# AKVA FARM

A perfect solution to heat drinking water up to +17 °C by using free heat recovery



- The recovery heat from the milk cooling process is stored in the accumulator tank and drinking water will be heated by using a heat exchanger coil
- The tank is insulated by 100 mm seamless polyurethane and covered with hygienic, white-painted steel sheet
- The drinking water for the cattle is produced using the most efficient heat exchanger coils on the market
- **All you need is an accumulator tank and plumbing installation!**
- The milk cooling compressor generates a great deal of heat
- A cow produces an average of 34 litres of milk per day and the heat recovering from cooling can heat more than 70 litres of drinking water up to +17°C. Part of the energy can be used to pre-heat DHW or/and washing water.
- Enough to heat drinking water for all cattle – **without any cost!**
- The pre-heated washing water can be heated further using any heat source.

Size of barn (Milk robot)	Accumulator tank	Dimensions (diameter x height)	Immersion
30 cows, drinking cup 12 L/min	AKVA 750 EK + LK60	950 mm x 2050 mm	4,5 kW CU4 K10
30 cows, drinking cup 21 L/min	AKVA 750 EK + LK80	950 mm x 2050 mm	4,5 kW CU4 K10
60 cows, drinking cup 12 L/min	AKVA 1500 EK + LK80	1250 mm x 2150 mm	6 kW CU4 K10
60 cows, drinking cup 21 L/min	AKVA 1500 EK + LK120	1250 mm x 2150 mm	6 kW CU4 K10
100 cows, drinking cup 12 L/min	AKVA 2000 EK + LK100	1400 mm x 2200 mm	9 kW CU4 K10
100 cows, drinking cup 21 L/min	AKVA 2000 EK + LK160	1400 mm x 2200 mm	9 kW CU4 K10
150 cows, drinking cup 12 L/min	AKVA 2500 EK + LK140	1500 mm x 2250 mm	2x6 kW CU4 K10
150 cows, drinking cup 21 L/min	AKVA 2500 EK + LK200	1500 mm x 2250 mm	2x6 kW CU4 K10

Size of barn (Milking morning/evening)	Accumulator tank	Dimensions (diameter x height)	Immersion
30 cows, drinking cup 12 L/min	AKVA 1000 EK + LK60	1050 mm x 2100 mm	4,5 kW CU4 K10
30 cows, drinking cup 21 L/min	AKVA 1000 EK + LK80	1050 mm x 2100 mm	4,5 kW CU4 K10
60 cows, drinking cup 12 L/min	AKVA 2000 EK + LK80	1400 mm x 2200 mm	6 kW CU4 K10
60 cows, drinking cup 21 L/min	AKVA 2000 EK + LK120	1400 mm x 2200 mm	6 kW CU4 K10
100 cows, drinking cup 12 L/min	AKVA 2500 EK + LK100	1500 mm x 2250 mm	9 kW CU4 K10
100 cows, drinking cup 21 L/min	AKVA 2500 EK + LK160	1500 mm x 2250 mm	9 kW CU4 K10
150 cows, drinking cup 12 L/min	AKVA 3000 EK + LK140	1600 mm x 2300 mm	2x6 kW CU4 K10
150 cows, drinking cup 21 L/min	AKVA 3000 EK + LK200	1600 mm x 2300 mm	2x6 kW CU4 K10

Alternative if there is no existing plate heat exchanger (special installation required):

Hot gas coil (condenser coil)	Max. Pressure	Size	Connection
HG 35	50 bar	cooling compressor 1 kW - 7,5 kW	Copper 22 mm
HG 45	50 bar	cooling compressor 7,6 kW - 9,7 kW	Copper 22 mm
HG 50	50 bar	cooling compressor 9,8 kW - 11,6 kW	Copper 22 mm

Accumulators also available in larger sizes



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