



Dari-Kool® Glacier-Guard™ Cooler/Wash Control

Programmable cooling and cleaning for your bulk tank

With unmatched versatility, the Glacier-Guard cooler/wash control from Bou-Matic offers:

- Programmable tank cooling and cleaning cycles for greater tank cleaning efficiency and high milk quality
- Wash cycle monitoring - with more than 30 adjustable wash parameters - for better control over water and chemical usage
- Milk temperature recording over the duration of a cooling cycle
 - Download this information to a computer for monitoring and displaying the complete cooling cycle, or
 - Use a roll printer for real-time printouts*
- An automatic chemical pump module for liquid chemical usage convenience - there is no human contact
- Automatic dispensing of chemicals so there is no waste
- Optional quick drain and fill that can greatly reduce the time it takes to clean a milk cooler

*RS232 roll printer and prom required



It's a Cooling Control

The cooling portion of the Glacier-Guard cooler/wash control can be custom programmed to meet the specific needs of the dairy, based on the size of the cooler and way the dairy operates.

It's a Washing Control

The wash portion of the Glacier-Guard cooler/wash control can also be custom programmed to meet the specific needs of the dairy, based on the size of the cooler, the way the dairy operates, and available CIP water supply.

Glacier-Guard programmable cooling features include:

- Delayed compressor start on first milking to prevent evaporator plate icing
- Beginning of next milking compressor start. This avoids having the blend temperature rise to a point where the compressors normally turn on
- Pre-starting compressors **before** the start of the next milking. Deep cooling the milk to below storage temperature further reduces blend temperature and cooling time at the end of milking
- Milk temperature recording from the start of the first milking to the end of the last milking, and up to when the milk cooler is emptied. With this data, analysis of how fast the milk was cooled, milk storage temperature between milkings, and the milk temperature when the milk was picked up can be recorded
- Alarm functions, which allow remote alarms and lights to alert the operator if operating conditions or temperatures are not as expected
- Monitoring and recording of compressor start/stop time which can be used to determine run times, compressor power usage, agitator start/stop and run times, and chiller run times
- Displaying stored information on the on-board LCD display, or downloading to a computer for long term storage and/or graphing of information for quality control

Glacier-Guard programmable wash features include:

- Programmed operation of 1/2-inch and larger water solenoid valves to provide accurate water volumes and temperatures, and reduced fill times
- High volume air-activated drain valves to further reduce wash times (optional)
- Programmed operation of peristaltic chemical pumps during all wash and sanitize cycles, which gives accurate dependable CIP results using liquid or concentrates
- Monitoring and recording of water valve on/off times, wash pump operation, chemical pump run times, water temperatures, and other operating parameters

So much versatility working for you in a programmable cooler/wash control.

The Glacier-Guard cooler/wash control only from Bou-Matic.



4023924 - Pneumatic cooler wash drain valve (Shown mounted on 1-1/2 Hp wash pump inlet assembly)

Sample temperature graphs using Bou-Matic interface software and your PC.

Glacier-Guard/PC Interface Software

Some authorities have indicated they may accept the temperature graph - generated using a PC - in place of customary chart recorders. Please verify acceptance from your local inspector and/or department of agriculture authority.

4023739 - Serial Printer/PROM Kit

Date, time, dairy name and dairy ID is stamped at the beginning and end of the milk temperature graph.

All wash parameters of all wash phases are printed during each wash cycle.

With the replacement PROM this roll printer is capable of providing real-time hardcopy strip-chart temperature graphs and wash cycle information. These data may be used to document CIP information and the storage temperature of the milk in the cooler.



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