

# XL Robotic Milking

## The Cooling Solution for You

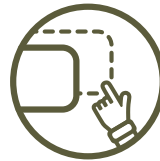
*For farms with more than 720 cows, achieving effective milking management is crucial for greater efficiency and profit security.*

# Cooling the World's Milk



## The Future is Here

Voluntary milking systems are a game changer for eliminating problems related to inconsistencies in labor and procedures on extra-large dairies. These XL dairies are removing threats from the twenty-four/seven hustle by hedging on robots, and Paul Mueller Company has the cooling solution.



## XL Dairies = Custom Solutions

When your robotic project exceeds 12 boxes, everything becomes unique to your facility and layout. At Paul Mueller Company, we have custom cooling solutions tailored specifically to your XL robotic milking expansion. Our design specialists will collaborate with your team to configure the ideal system: The milk transfer system, the chiller/plate cooler, the on-farm storage vessel, the milk hauler interface, and the CIP (clean-in-place) wash system. The goal is to utilize the most of every day and every robot. Mueller's milk house solutions help minimize your down time.



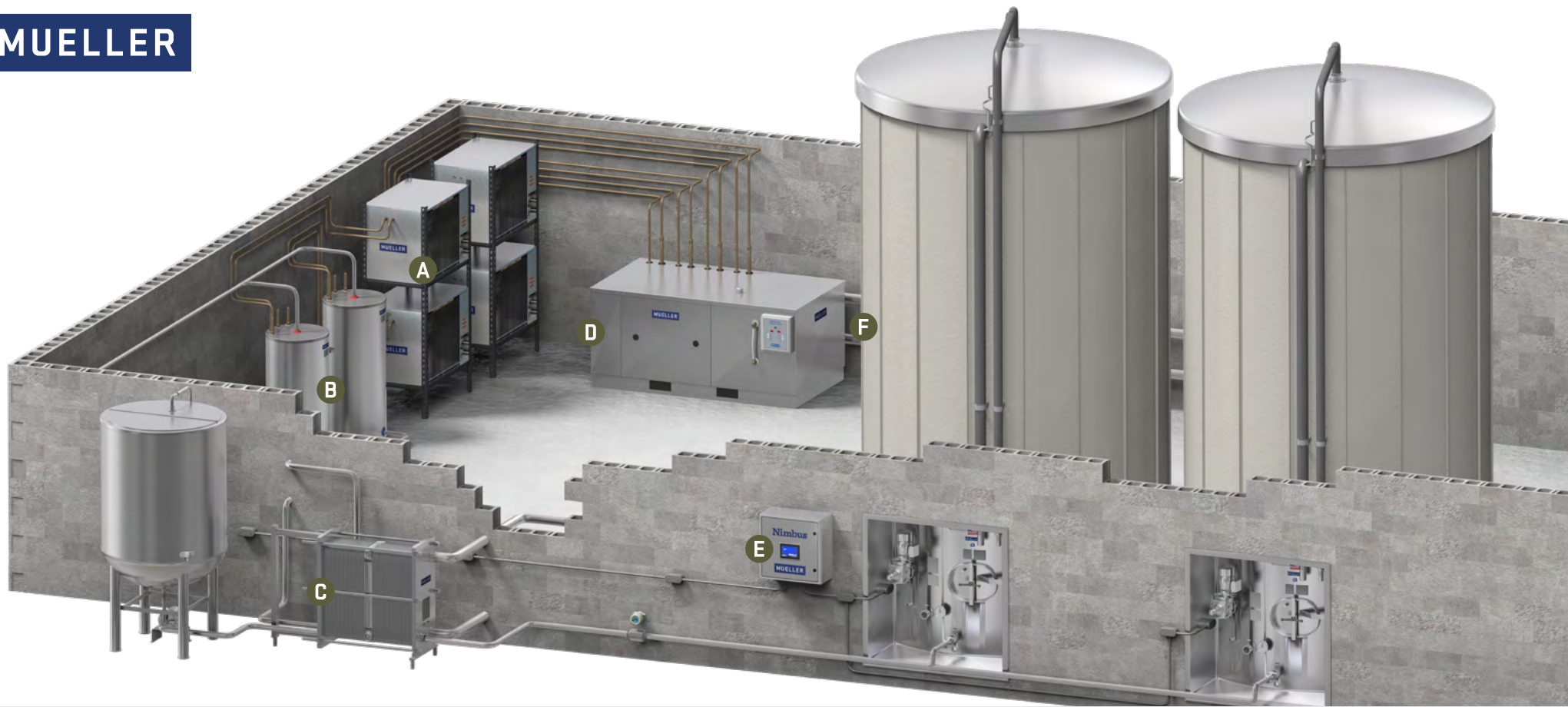
## Built for Expansion

As dairy producers are thinking about future growth, you will likely see more robotic-milking dairies worldwide. Robotic dairies allow producers more time for things they are passionate about such as herd health, milk quality, and genetics. This way of life also promotes flexibility in a dairy producer's daily operations allowing for more quality time with family and friends.

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## **E-Star® HiPerForm® EVC Digital Condensing Unit:**

Working in conjunction with both milk coolers and chillers, the E-Star HiPerForm allows for large volumes of milk to be cooled while utilizing less energy. Its proprietary technology has historically made it the most energy efficient milk cooling system.



## **Model D Fre-Heater®:**

XL robotic dairies require a lot of refrigeration which allows for ample heat recovery opportunities. The Model D Fre-Heater is designed to capture the milk cooling system's excess heat energy while providing additional hot water storage. Simple and durable, the Fre-Heater reduces waste and generates free heat for your hot water system.



## **Accu-Therm® Plate Cooler:**

XL dairies demand extremely large and efficient Accu-Therm plate coolers. These plate coolers must have adequate well water and glycol cooling, while also being mindful of milk handling and system wash requirements.



## **LS / LSA Chiller:**

Since their introduction, LS and LSA chillers have continued to grow in popularity. These chillers are durable and will provide years of cooling for your XL robotic dairy. LS-series chillers connect to our industry-leading E-Star HiPerForm EVC condensing units and produce a reliable and easy-to-service cooling system.



## **Nimbus Milk House Control:**

This control is specifically designed for robotic systems requiring multiple storage vessels. The Nimbus communicates milk temperature, volume, and cooling status via the cloud while handling all the essential standard functions such as cooling, wash, robotic communication, and milk hauler interface.



## **Milk Silo:**

With its vertical design, the Mueller milk silo allows for maximum product storage and protection in a minimum amount of space. Ranging from 10,000 to 40,000 gallons, these silos adequately meet the needs of on-farm milk storage for your XL robotic dairy.