

MUELLER FRE-HEATER™

EXPLANATION OF THE REVOLUTIONARY NEW MUELLER "FRE-HEATER™" FOR THE DAIRY FARM

Bulk milk coolers on modern dairy farms remove heat from the milk promptly after it is produced. To accomplish this requires refrigeration machines and they are generally of the air-cooled type. Air-cooled condensing units literally "throw away" this valuable heat.

On these same farms, large amounts of hot water are needed for "prepping" the cows, washing the milk cooler, the pipeline milker, other equipment, and the milking parlor itself. It is also advantageous to heat the cows drinking water in winter.

The Mueller Fre-Heater conserves energy and provides "free" hot water by capturing the heat now wasted!

HERE'S HOW IT WORKS:

Rather than using noisy, dust-creating fans with fragile, dirt collecting air-cooled condensers, the refrigerant is routed to a specially designed condenser/heat exchanger and its heat is transferred to the water.

A thermostatically controlled valve delivers 145° F water to the storage tank.

In addition to the thermostatic valve, a mixing valve is provided to permit "prepping" temperature water.

Thus, the Fre-Heater delivers two temperatures of water — prepping and washing.

Tests indicate the Fre-Heater consumes 10% less power than an air-cooled system . . . and you get Free Hot Water!

ELIMINATES REFRIGERATION SERVICE PROBLEMS!

The most common causes of slow cooling in bulk milk cooling systems are related to the air-cooled condenser.

Three things which frequently reduce the efficiency are

1. Poor air circulation and recirculation
2. Fan motor failures
3. Dirty or clogged condenser fins

Air-cooled condensing units are generally installed out of doors in order to assure adequate air supply to the condenser. This exposes the compressor to extreme ambient temperatures. Starting problems and compressor failures have resulted and air-cooled condenser units are always noisy.

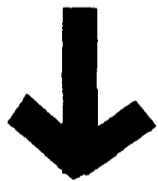
The Fre-Heater eliminates these problems because:

- There is no air-cooled condenser.
- The Fre-Heater is installed indoors.
- There are no fans to generate noise.
- The head pressure is very stable — assuring longer compressor life.
- There are no cold weather starting problems, plus . . . the Fre-Heater conserves energy and produces Free Hot Water!

HOW MUCH HOT WATER CAN BE GENERATED?

There are many variables, so this question cannot be answered directly; however, a rule of thumb is that a Fre-Heater operating on 60° F. well water will produce a volume of 145° F. water similar to the amount of milk produced during a milking. In other words, if 100 gallons of milk per milking is produced, approximately 100 gallons of hot water (145° F.) will be generated during each milking.

NEW SHIPMENT MUELLER TANKS AND FRE-HEATERS JUST ARRIVED



L. to R. Sam Stoltzfus, Ken Groff, Gid Diener

CONTACT QUEEN ROAD REPAIR TO SEE A **MUELLER FRE-HEATER** IN OPERATION, RIGHT ON THE FARM.

QUEEN ROAD REPAIR

BOX 67, INTERCOURSE, PA 17534

After 5 P.M.

PHONE 717-768-7111

JOHN D. WEAVER 656-9982 — KENNETH M. GROFF 354-0473

GID DIENNER 768-8521

OR Answering Service 354-4374

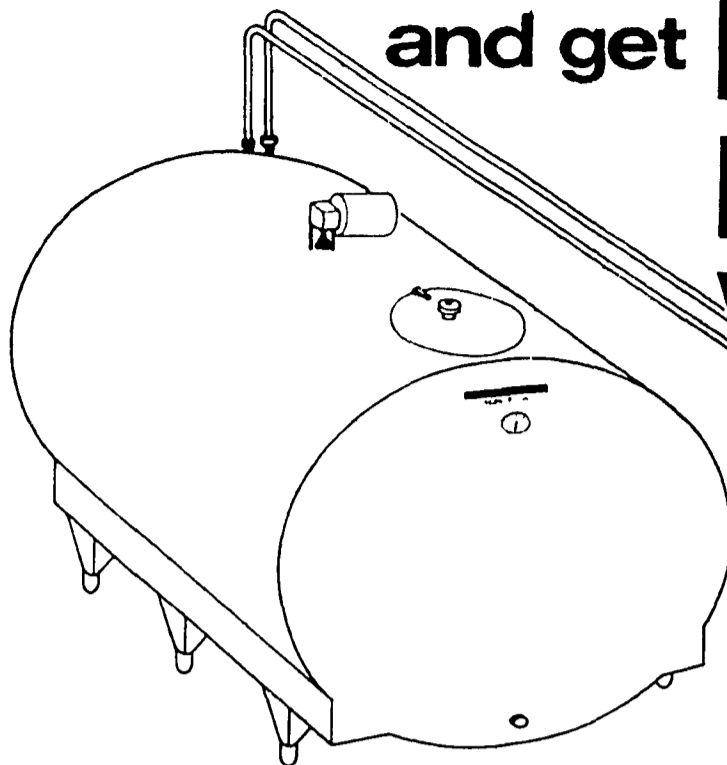
24 Hour Service

We Stock Hess' Farm Supplies, Check Our Prices on Animal Medications

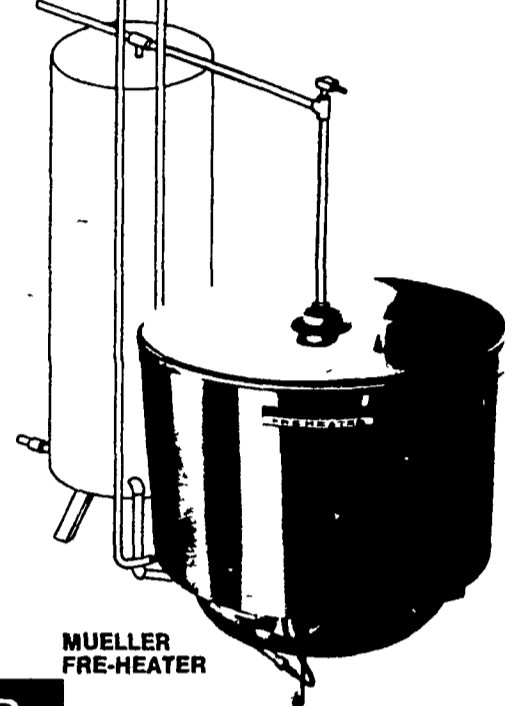
USED TANKS
AND
MILKING EQUIPMENT
IN STOCK

Save Energy

and get FREE HOT WATER..



MUELLER
HIPERFORM™
BULK MILK COOLER



MUELLER
FRE-HEATER

WHAT SIZES ARE AVAILABLE?

2, 3 and 4 HP units are available for either HiPerForm or conventional refrigeration systems.

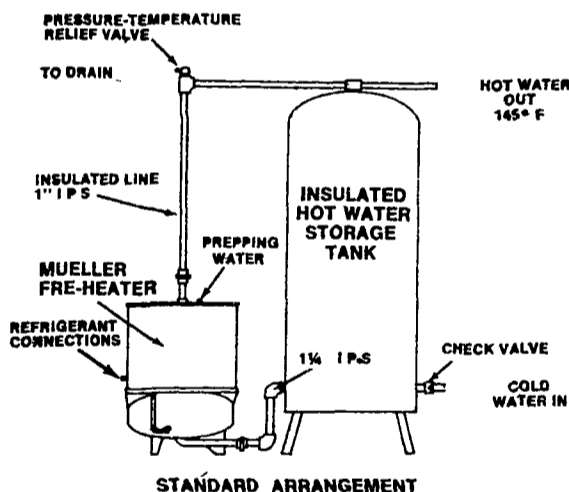
The 2 HP. unit normally requires a 120 U.S. gallon water storage tank and the 3 and 4 HP size each normally require two 120 gallon water storage tanks. (See typical installation diagrams on back.)

The Mueller "Fre-Heater" can be used with either the Mueller HiPerForm Bulk Milk Cooler or with a conventional bulk milk cooler.

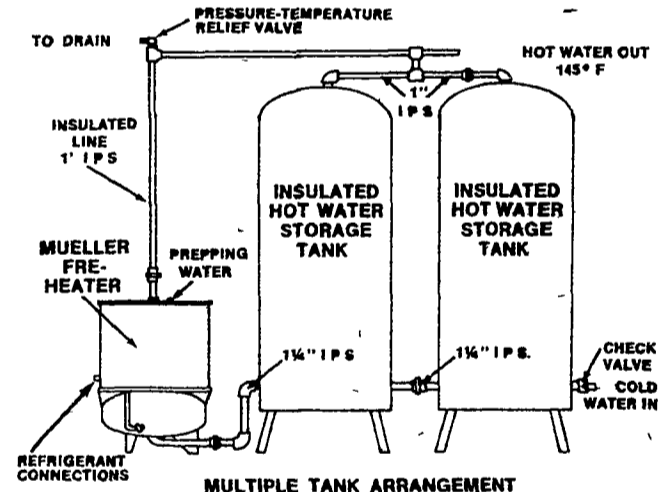
with the revolutionary...

MUELLER FRE-HEATER™

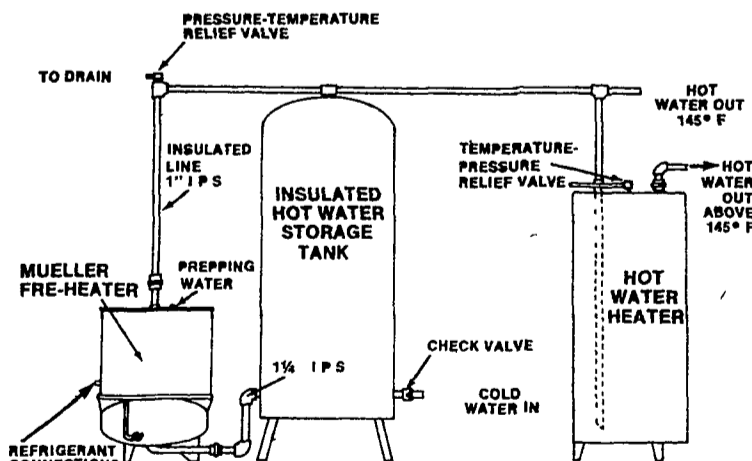
TYPICAL MUELLER FRE-HEATER™ INSTALLATIONS



STANDARD ARRANGEMENT



MULTIPLE TANK ARRANGEMENT



TEMPERATURE BOOSTER ARRANGEMENT

- Washing Bulk Milk Cooler
- "Prepping" Cows & Warming Their Drinking Water
- Washing Pipeline Milkers
- Washing Milking Parlor
- Other Hot Water Uses
- Noisy, Dust-creating Fans
- Dirt-collecting Air Cooled Condenser
- Air Circulating Problems