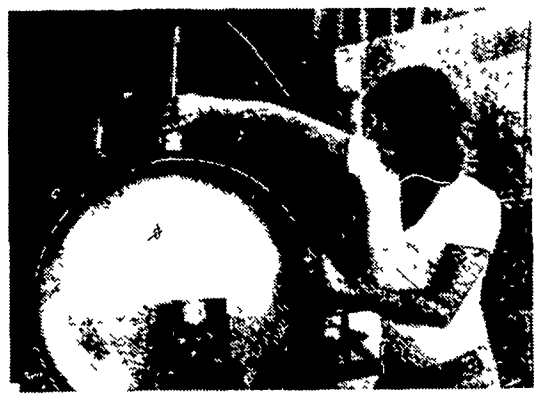
THERMA•STOR A SUCCESS STORY

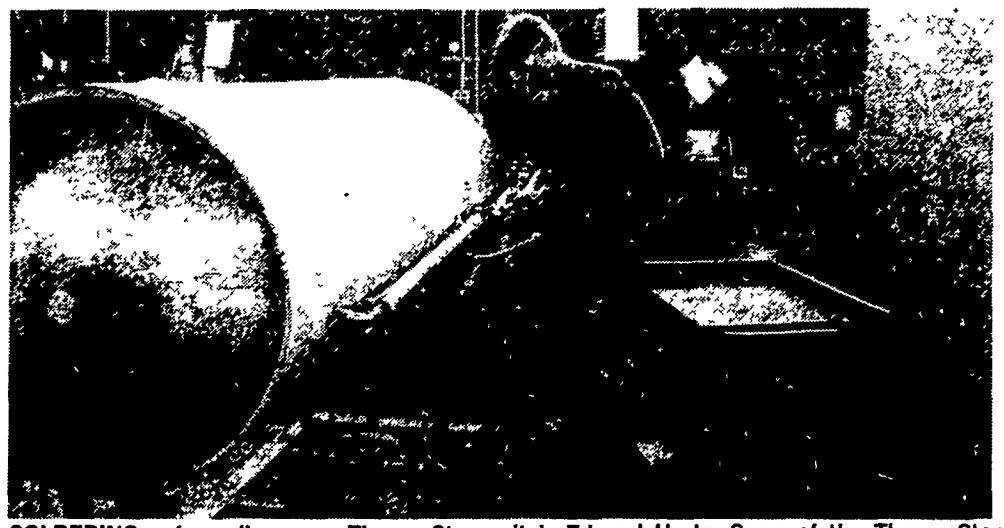
A WINNING PRODUCT is DECO's Therma-Stor heat recovery system. The product was selected as one of the 10 best new products developed by Wisconsin industry in 1976. A contest was sponsored by the Wisconsin Governor's office and the National Society of Professional Engineers. Shown receiving the award from Governor Patrick J. Lucey, left, is DECO's Ken Gehring, Therma-Stor product manager.

THERMA-STOR collects heat from a bulk milk cooler on a dairy farm and uses it to heat water for washing around the milk house and milking parlor. As such, it saves a great deal of energy for dairy farmers. Shown preparing to weld the top on a Therma-Stor unit is Jim Miller.

FITTING a cover on an insulated Therma-Stor unit are Mike Feeney, left, and Guy Addison.

TESTING FOR LEAKS is a crucial and exacting chore in the production of Therma-Stor units. First the tank is filled with nitrogen under 750 lbs. of pressure and covered with a soap solution. If no leaks are discovered in that way, the nitrogen is taken out and freon substituted. Then a machine, operated in the photo by Jeff Larson, is used to discover even the tiniest freon leak.





SOLDERING a freon line on a Therma-Stor unit is Edward Hurtz. Some of the Therma-Stor production takes place at DECO's Plant 1 and some of it in Plant 2.

Heat Recovery System (HRS)

Designed to fit any existing system, the THERMA•STOR HRS is the ***ultimate*** example of energy conservation.

The THERMA•STOR HRS will produce ***all*** of your dairy hot water needs, ***without*** the use of electricity or fuel.

THERMA•STOR Dimensions (inches)
Model 100—H = 84½, Dia = 21½
Model 170—H = 87 Dia. = 27½

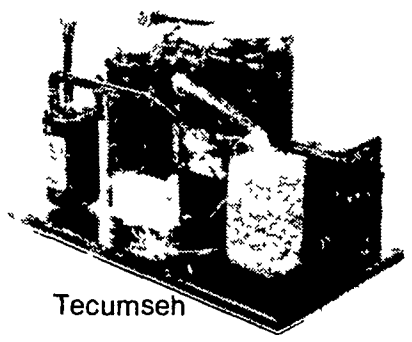
Conventional cooling systems use fan cooled condensers to remove the refrigerant heat. This wasted heat can now be saved with the use of the THERMA•STOR HRS. By replacing the fan cooled condensers with a THERMA•STOR, the heat from the hot refrigerant is transferred to cold water, which in turn becomes hot water. This process will heat about 1 gallon of water to about 110° for every gallon of milk being cooled. In addition, the THERMA•STOR produces and stores 1/3 of its capacity in Hot Water from 150° to 190°. (The precise temperature of water reached in this section is dependent upon total compressor H P and running time, see Chart for more details).

Size	High Temp. Section Capacity	No. & Size Of Compr.	Compressor Oper. Time (HR) 1½	2	2½
100	33 Gal	(1) 3H P	150	160	165
		(1) 4H P	155	165	170
		(1) 5H P	165	175	180
170	57 Gal	(2) 3H P	150	160	170
		(2) 4H P	160	170	180
		(2) 5H P	170	180	190

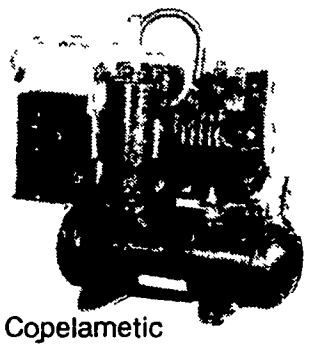
Chart shows typical temperatures (F) reached in the high temperature section of the THERMA•STOR HRS as determined by total compressor horsepower and operating time Temperatures and time shown assume proper refrigerant charge in system efficient compressor operation and no pre cooler in system

The THERMA•STOR HRS is available in two sizes: a single condenser, 100 gallon; or as a dual condenser, 170 gallon model. Both come equipped with male Areo-Quip fittings for use on existing systems or for use with a Tecumseh or Heavy-Duty Copelametic compressor

Water does not go through the compressor. The water is heated by the refrigerant gas from the compressor. Your existing compressor can remain outside.



Tecumseh



Copelametic

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Angus breed sets record

ST. JOSEPH, Mo. - Angus breeders registered 264,620 head of purebred Angus cattle in the 1977 Angus fiscal year, up more than 36,000 head from 1976, reports Lloyd D. Miller, executive secretary of the American Angus Association.

"The nearly 16 per cent increase for the year ended September 30, is the largest annual percentage increase in registrations in the history of the American Angus Association," Miller said, "and represents renewed faith in the future of the cattle business by a majority of our members. This growing optimism has been particularly obvious the last few months, Miller emphasized. "Registrations for the month of August were up 24.86 per cent and in September, registrations showed a 29.11 per cent increase over the same month a year earlier."

Transfers of registered Angus were 158,165 head. This was down 14 per cent from last year, but still represents the sale of nearly 70 per cent of all cattle that were recorded in 1976.

During the fiscal year, 2,537 new life members and 1,355 junior members joined the American Angus Association. This is down some 12 per cent and 4 per cent respectively, but represents the starting of a large number of new Angus herds in this low year in the beef cattle cycle.

On the last day of processing of the fiscal year, the nine millionth animal was added to the American Angus Association herd book. The number 9,000,000 has been set aside and will be awarded to the grand champion Angus bull at the 1977 North American Livestock Exposition, November 15 in Louisville, Kentucky.

Registration number 1,000,000 was not reached until 1947, some 64 years after the founding of the American Angus Association. The second million animals were recorded by 1954 and registration number 4,000,000 was not reached until 1963. This means that more than half of the 9 million animals recorded in the American Angus Association herd book (5 million head of bulls and heifers) have been added in the last 14 years.