

THERMAX, INC



Special Interest

- High COP
- World Class manufacturing facility
- 2,500 Installations world wide

Inside this issue:

- Results 2
- Contacts 2

Medway Plastics

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Customer

Medway Plastics Corporation (MPC), an injection molding Plastics Company, offers a diverse range of products including beverage containers; produce baskets, bread trays, audio speaker enclosures and office furniture. Facility is spread over 5 buildings. Electric utility is SCE (Southern California Edison) and gas service is provided by Long Beach Gas Company.

Problem

Utility costs were becoming an increasingly larger part of monthly operating expenses. During the recent California energy crisis, MPC rented portable generators, shed load and worked odd shifts and weekends in order to balance productivity against rising power costs.

Solution

MPC purchased three of DTE's ENI415S units. Each ENI415S is a stoichiometric gas engine unit from DTE Energy Technologies, Michigan each unit with a gross output rating of 375 Kw, with cogeneration providing jacket water heat recovery. The ENI415S units have the dual benefit of generating lower-cost power and allowing Medway to utilize the heat from the engine jacket water to drive a 160 ton single effect Vapor Absorption Chiller from Thermax. Each unit of DTE has jacket water capacity of 1.117 MMBTU/Hr while the chiller requires 2.55 MMBTU/hr. The chilled water from the chiller is used for cooling operations related to the plastic injection molding process.

Equipment Furnished

Thermax model LT16S nominal 160 ton Low Temperature Hot Water Fired Absorption Chiller

Year of Supply: 2002

Reference: Mr. F. Michael Faubert - Vice President (DTE Energy Technologies, Inc.)



Results

Medway has not only been able to substantially reduce its annual energy expenses but also is able to achieve significantly greater electric supply reliability.

Thermax, a technology driven company has been in the core sectors of Energy & Environment for more than 45 years and has defined its business as "Conserving Energy and Preserving the Environment". Thermax manufacture environment friendly and energy efficient Vapor Absorption Chillers in their world class manufacturing facility complying to ISO 9001, ISO 140001 and most international standards such as ETL, CE, ASME, DNV, TUV, etc. Thermax' absorption chillers run on low or high-pressure steam, hot water or can be direct gas and / or Oil fired. Today Thermax has over 2,500 installations the world over including major supplies to the developed countries such as USA, UK, Germany, Spain and Italy.

Thermax's single stage low temperature type hot water driven chillers are available from 10 till 1400 ton with high COP and can provide chilled water outlet temperatures as low as 40°F and can run with hot water outlet temperature as low as 158°F.

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