



**Clover Corporation** *HVAC Equipment*  
*Your FAMILY owned HVAC Supplier*  
602 Tolland Street • East Hartford, Connecticut 06108-3728  
(860) 528-0081 (P) • (860) 528-9539 (F) • [Info@Clover-corporation.com](mailto:Info@Clover-corporation.com)



## BACK FROM THE BRINK

As our world opens up “post COVID” what can we expect?

❖ Customer expectation of speedy deliveries has been heightened over the pandemic. With our local warehouse space, we are proactively meeting these expectations backed by our customer satisfaction.



❖ The HVAC community is booming despite some product delays brought on by the pandemic. These product delays are expected to continue through the 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2021; however, manufacturers are more equipped than ever to meet these demands.

❖ Many manufacturers have upgraded their plants to meet increased government regulation on efficiency, offering new and enhanced systems.

❖ While product cost may be going up due to increased efficiencies, manufacturers are balancing this out with lowered up-cost savings long term, making the equipment worth the added price.

❖ Energy Incentives offered by the State have come under scrutiny to ensure equity across the consumer market applies. This review will most likely not affect the 2021 Energize CT rebates but could factor in next year’s distribution of \$.

“If we invest in researching and developing energy technology, we’ll do some real good in the long run, rather than just make ourselves feel good today,”  
-Bjørn Lomborg

# Providing Clean Energy

Reduction of Carbon in the atmosphere must be balanced with an infrastructure that can provide sustainability in answer to the growing demand for energy.

As we move forward to a cleaner environment and a better equitable energy outlook for consumers, we need to consider what has been working and expand on it. Looking worldwide and nationwide at what has been working may offer additional insight to the marketplace.

Dowling on Main is a prime example: natural gas absorption cooling and heating was combined with solar to provide a cost-effective green solution for a historic building in Manchester, CT.



Using only single-phase power, the heat pumps reduce the need for electric power by 87% to provide 15 tons of cooling **and** 360,000 BTUs of heating to the building. This highly efficient system incorporates renewable energy using outside air for heat rejection in cooling



mode and as a heat source in heating mode.

The natural gas energy consumed while in cooling mode is very affordable during the off-peak summer gas season when demand is low reaping cost savings for tenants. Then in winter the 126% efficient heat pump shifts into heating mode providing renewable energy to conserve on heating costs, further reducing carbon and tenant costs.

As an example, with 15,000 GAHP heat pumps the release of 59,389 tons of CO<sub>2</sub> and 351,725 lbs of NO<sub>x</sub> is avoided and is comparable to planting 8,484,136 trees or removing the emissions of 132,950 cars.

Federal mandates on clean energy are increasing. President Biden's energy policy has a goal of a carbon free power sector by 2035 and a net zero emission economy no later than 2050. The utility industry however is unprepared for the clean energy future they will soon be facing. Using today's energy efficient technologies needs to be reconsidered.

# Relieving The GRID

Tecogen, Inc., parent company of **Tecochill**, gas engine driven cooling, is a clean energy company providing ultra-efficient, clean, natural gas-powered on-site power, heating and cooling products for over 30 years.



The first standardized natural gas, engine-driven chiller, was introduced by Tecochill in 1987. They've been reliably delivering chillers that cost 30-60% less to operate when compared with conventional electric chillers for 34 yrs! The superior efficiency reduces electric demand and ***cuts the average building's carbon footprint in half.***

The greatest savings provided by Tecochill technology is most evident in summertime when electricity rates are at their highest, and peak usage charges skyrocket the cost of traditional electric chillers or other electric equipment.



Across New England, colleges and universities are finding natural gas technologies offer better efficiency and lower operating costs necessary to run their campuses on a tight budget. When it comes to the environment, *natural gas burns cleaner than source electric and other fuels*, helping schools operate in an environmentally friendly manner.

A life-cycle analysis showed that a 200-Ton Tecochill gas engine-driven chiller would save up to \$9,595 annually, compared to an electric chiller.

*The following scholastic facilities are cashing in on these lower costs:*

## At CCSU,

A residential dormitory, at James Hall, was upgraded to the STx 200 Chiller. Free heat reclaimed from the engine will be used to warm outside air providing ventilation to the Hall areas of the building.

## Curry College

Energy savings of 55% were gained over the previous year thanks to Tecochill's air cooled model CH-50-ACP. It reduced their carbon footprint and reduced on-peak demand charges. The savings prompted the purchase of a CH 300x water cooled model for their student center. The free hot water is captured to wash dishes in the dining area.



# Relieving The GRID Continued

## Dundee School



A 150-ton STx water cooled gas engine chiller replaced a 20+ year-old model, providing them a more efficient unit. They saw savings on electric demand and lowered emission standards.

## Greenwich High School

Installed a new 200-ton Tecochill gas engine-driven chiller, to upgrade their old system while still maintaining their clean energy. Their choice helped conserve valuable energy and additionally saved them money.



## River Street School

Recently upgraded their 20-year-old Tecochill system. This allowed them to maintain their low electric demand and their low carbon footprint. Reclaimed heat from the engine also provides domestic hot water, providing additional savings.



## St. Joseph's University



With a history of concern for the environment, the school decided to choose a natural gas engine driven cooler over electric for the Carol Autorino Ctr for the Arts, that includes a 400-seat auditorium, 5 art galleries, offices, and a reception area. Their choice lowered their environmental impact and operating costs.



# Clover Corp's - Allied Connection News

## magic-pak™ – All-in-One HVAC Systems

To meet the new DOE regulations for *minimum efficiency* required for all single packaged vertical units, Allied-Air Enterprises has redesigned the M-Series Magic-Pak offering:

- 5-year limited warranty on all parts
- Top supply and return on all models
- Factory installed float switch
- Anti-microbial drain pan
- 20-year warranty on stainless-steel heat exchanger
- Proudly manufactured in the U.S. since 1964
- Allied is a Lennox International Inc. Company

The new smaller model Magic-Pak® systems range from 15,000 to 60,000 BTU/HR heating inputs, and cooling with capacities from ¾ Ton to 3 Ton, to meet the job you need!



Magic-Pak M-Series™ heating and cooling units are the ideal choice for apartments, condominiums, and other multifamily buildings.

Design certified as a direct vent appliance, the Magic-Pak® reduces installation costs for builders and improves the building's appearance without outside condensers and external refrigerant lines.

Tenants love that they get to control their own indoor comfort year-round.

Pick up the phone now and give us a call for a quote on your multi-unit project or for additional information - 860-528-0081. Ask us about an installation near you.

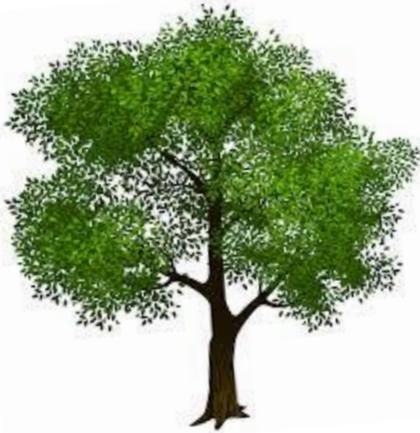


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**CONCORD**

### ANNOUNCEMENT



The Concord® mini-split heat pump is an Allied Commercial product that both heats and cools without ducts!

Perfect for the home that lacks space for ducts. Also, for additions, sunrooms, or extensions where ducting would be difficult to add to an existing system.

With no ductwork and no hassle, they're quick to install. They come with a warranty owners will love - **up to 12 years on residential applications.**

Single zone or multi zone, the Allied Commercial mini-split is a solid choice:

- Quickly installs with minimal disruption
- Runs quietly and blends with any décor
- Provides efficient spot heating and cooling
- May qualify for tax incentives and local utility rebates

Choose from a wall-mounted indoor unit, ceiling cassette indoor unit or a ducted indoor unit. There are options to fit your need to provide comfort conditioning wherever you need it

Outdoor unit

