

HVAC NEWS

2023 WINTER EDITION

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TECHNOLOGY MEETS HISTORY

America's oldest continually operating seed company, Comstock Ferre & Co, once supplied seeds for the entire nation.

Today Comstock Ferre & Co. has transformed, offering not only seeds but a natural food market and café known as Heirloom Market.

New efficient heating and cooling equipment is meeting the complex design criteria of historic buildings. Mini-split systems and Furnaces by Concord® offered options for the heating and cooling required in today's business environment without compromising the rich history of Wethersfield told by the buildings.

MAKING THE JUMP TO MODERN TIMES

An ever-growing line of heating and cooling products, for residential and light commercial application, is available now for an upgrade this season and next. Designed to blend in with any home decor, the mini-split system is perfect for those applications where ducting is not available.

Ideal for remodeled spaces, the Concord® min-split system can be installed with or without ductwork quickly with minimal disruption.

Mini-splits have one of the best available warranties in the industry! See if you qualify for a **5-year parts or a 7-yr compressor warranty** (applies to residential applications).



A **new 96% efficient**, variable speed motor offers the competitive edge needed in today's marketplace. With 10 yr. limited warranty on parts and limited lifetime warranty on the heat exchanger (with registration), the customer has peace of mind they've purchased Quality with a capital "Q"!

ENJOY EVEN MORE SAVINGS!

Energize CT's rebate program adds to the savings when you upgrade your efficiency! As Energize partners, we can walk you through this process and help you get registered to receive these savings. Give us a call to start the process today!



STILL RINGING IN THE NEW YEAR SAVINGS!

NEW IN 2023!

Introducing GREE VRF's

Variable Refrigerant Flow Systems

- Offers High Efficiency
- Small Footprint
- Great Flexibility

Clover now offers this HVAC system that **saves up to 55%** over unitary units. Available in Single phase up to 5-Tons.



VRF systems are designed as either 2-pipe or 3-pipe, water or air cooled. In a 2-pipe heat pump system, all zones must be all cooling or all heating. A heat recovery version (HR) is usually done with 3-pipe designs and can heat certain zones while simultaneously cooling others.

By operating variably, VRF units work only at the needed rate allowing substantial energy savings at load conditions. Additional saving incentives are available from Energize CT.

VRF's are typically installed with an inverter to support the variable motor speed and thus variable refrigerant flow rather than simple on/off operation.



Inverter systems are programmed for varied speeds to provide the capacity needed. They deliver better comfort through smaller temperature swings and longer run times, which helps lower humidity.

TECOCHILL PROVES ITS RELIABILITY AND DEPENDABILITY TIME AND TIME AGAIN!



NEW!

Introducing Tecogen's new breakthrough technology, the **Smart Hybrid-Drive Air-Cooled Chiller**.

Why choose, when you can have both? Seamlessly combine two power sources! Run on natural gas, or electricity, or **BOTH!**

Intelligent Hybrid-Drive provides the ability to blend natural gas and electric operation seamlessly in any combination.

Additional savings are realized by recovering free waste engine heat for heating domestic hot water, space heat, dehumidification, etc.

Optimize utility costs based on real-time energy pricing. Ask us about the **40% IRA tax incentive** available for reducing installation costs.

50% REDUCTION IN UTILITY RELATED OPERATING COSTS

and

50% REDUCTION IN GREEN HOUSE GAS (GHG) EMISSIONS

*compared to electric and hot water units

Contact us for more information on the NEW Tecochill recently showcased at AHR 2023 - 860-528-0081 or email: info@clover-corporation.com.

LIMITED POWER?

ROBUR'S GOT YOUR BACK!

Robur's solution eliminates Time of Day and Demand Rates by operating on single phase 208/230 power, greatly reducing the need for back-up generators.

Their drastic reduction in electric power consumption means you don't have to upgrade your electric capacity or deal with associated costs of doing so.



Robur gas heat pumps integrate well with other existing systems and produce greater heating and cooling capacities using less energy.

At **over 130% efficiency**, they're 35%+ more efficient than the highest efficiency gas appliance on the market.

Robur heat pump offers many benefits that other systems just are not capable of providing.

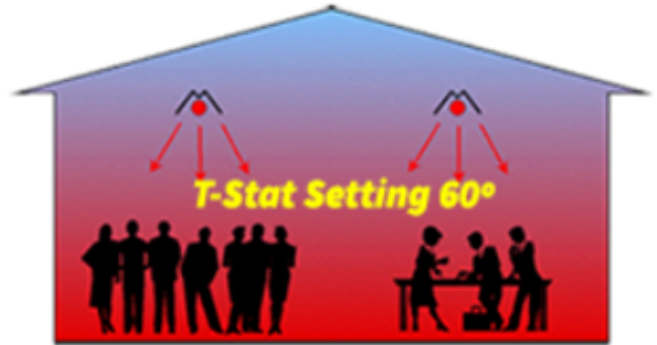
Gas heat pumps use less energy by integrating well with other existing systems and producing greater heating and cooling capacities.

- **With a conventional boiler package**, it raises the overall efficiency.
- **With solar systems**, when solar radiation is not sufficient, the model GAHP-A also offers 40% renewable energy.
- **With electric heat pumps**, it offers higher discharge temperatures when the outside air drops in temperature.
- **With in-floor radiant heat**, the gas heat pump's direct fired absorption technology guarantees a continuous supply of hot water to the radiant heating system as well as the radiant cooling.

There's even a **Geo-Thermal model!**

Robur offers a wide range of systems with a lot of flexibility for application. Modular design and staging capability easily adapts to changing load conditions.

RADIANT ENERGY



Radiant energy put the heat where you need it near the floor. Optimizing the heat distribution and saving energy and money!

With energy costs on the rise, now is the best time to consider infrared with the savings that it offers!

The objective of infrared heat is to convert the highest % of fuel into energy (heat). Energy is then stored and reradiated to the building's interior.

An optimum tube system incorporates the highest efficiency while maintaining the lowest maintenance. The vacuum dry tube system by Combustion Research offers **3 to 5% more** even heat than other radiant tubes.

A patented spiral low mass tube system Reflect-O-Ray heats up faster, allowing radiant heat output to be delivered faster than other radiant tubes available.

The Reflect-O-Ray system controls its radiant path with reflectors designed to best radiate the heat into the space. When using radiant tube heating you can expect to **save 30 to 50%** over forced air systems.



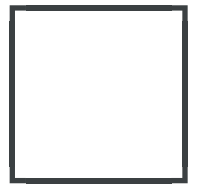


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MINIMUM EFFICIENCY STANDARDS OF 2023

Did you know?

In January of 2023 new minimum efficiency standards, set by the Department of Energy, went into effect.

What is affected by this change?

- Space constrained air conditioners (gas/electric and electric/electric - 0.75-2.5 ton units)
- Space constrained heat pumps
- Single packaged heat pumps

Any units, meeting the mentioned criteria, manufactured **after 12/31/2022** will need to meet the new efficiencies. If you purchase units manufactured **before 12/31/2022**, they will be grandfathered in and do not need to meet the new efficiency requirements.

The new DOE minimums are as follows:

- Space constrained air conditioners - 11.7 SEER2
- Single packaged air conditioners - 13.4 SEER2
- Space constrained heat pumps - 11.9 SEER2 and 6.3 HSPF2
- Single packaged heat pumps - 13.4 SEER2 and 6.7 HSPF2

