

TECOCHILL[®]

Gas Engine Driven Chillers



Energy Savings



Environmentally Friendly



Nationwide Service

WATER-COOLED



AIR-COOLED



WHY TECOCHILL?

Natural gas cooling allows commercial and industrial customers to significantly reduce their energy costs.



LOWEST OPERATING COST

Cut costs by as much as 30% to 60% when compared to conventional electric chillers



AVOID ON-PEAK ELECTRIC DEMAND CHARGES & "TIME-OF-DAY" RATES



AVAILABLE HEAT RECOVERY

Additional savings can be realized by recovering waste engine heat for domestic hot water, space heat, process, etc.



FREE UP ELECTRIC CAPACITY FOR OTHER PURPOSES



IDEAL FOR RETROFIT APPLICATIONS



ENVIRONMENTALLY FRIENDLY

TECONET™

- State-of-the-Art microprocessor-based system
- Fully automatic chiller operation
- Precise PID control of building chilled water temperature
- Remote and local fault monitoring
- Fully integrated system monitors and controls both engine and refrigeration system concurrently
- Modbus networking capability for open protocol communication with building management systems, programmable controllers, or between multiple TECOCHILL units for lead/lag operation
- Remote telecommunication system only requires a customer phone line

TECO DRIVE® ENGINE

TECOCHILL chillers are powered by TecoDrive 7400 engines, industrial versions of the General Motors Mark V 7.4L V8, modified to Tecogen specifications.

- Proven engine design, with over 30 million hours of reliable operation
- Typical engine life of more than 15,000 run-hours

Features:

- Variable-speed operation for exceptional life
- Low-pressure natural gas fuel system
- Optional low-emission package for less than 0.5 gm/bhp-hr of NOx

COST SAVINGS

- Chiller operating costs can be cut by as much as 30% to 60% when compared with conventional electric chillers
- Avoid electric demand charges and "time-of-day" rates
- Variable-speed engine technology yields excellent part-load efficiencies
- Additional savings can be realized by recovering waste engine heat for heating domestic hot water, space heat, process, etc.

HEAT RECOVERY OPTION

- High-temperature heat recovery (up to 225°F) with no additional fuel input
- Heat recovered from engine jacket, oil and exhaust
- Excellent economic bonus for sites with hot water needs

APPLICATIONS

Ideal for Retrofit or Replacement Applications

- Footprint comparable to an electric chiller
- Easy disassembly for access to mechanical room
- Quiet operation
- Able to utilize existing cooling tower, pumps, and piping in most cases
- Only 2.7 kW single-phase power required for water-cooled units

Versatility:

- Heat recovery options
- Low-Temperature Applications

ENGINEERING & SUPPORT

- Proven, standardized product design
- All units factory run-tested
- ETL listing
- Professional application engineering and service
- Extensive service documentation and training programs

ENVIRONMENTALLY FRIENDLY

- Reduced global warming (lowest fuel input per unit of cooling of any chiller)
- Reduced fossil fuel use
- Reduced CO₂ emissions due to use of natural gas (especially when displacing electricity produced from coal or oil)
- Non-CFC (R-134a) refrigerant
- Meets ultra-low emissions standards

THE INDUSTRY LEADER

- Over 20 years experience in packaged chillers, refrigeration, and cogeneration systems
- More than 1,400 operating units in the field
- Outstanding track record for engine-driven chillers in the U.S. and abroad

Hundreds of successful installations in:

- schools
- hospitals
- apartment buildings
- office buildings
- ice rinks
- nursing homes
- hotels
- retailers
- industrial facilities
- many others ...

TECOGEN SERVICE

Tecogen's extensive service network offers local service for many regions in the United States. Our factory-trained technicians not only provide expertise in the engine and its subsystems, but their capabilities extend to the entire chiller.

Services:

- Preventive Maintenance
- Troubleshooting & Repair
- Seasonal Start-Up & Shut-Down

TECOGEN Service Locations:

- Massachusetts (headquarters)
- Connecticut
- New York City/Long Island/New Jersey
- New York State
- Atlanta
- North Carolina
- Detroit
- Chicago
- San Francisco
- Los Angeles

Call **800.678.0550** for more information



TECOGEN  *TECOHILL®*
Natural Gas Engine-Driven Products *TECOGEN®*
TecoFROST™

45 First Avenue
Waltham, MA 02451

781.466.6400 [phone]
781.466.6466 [fax]

www.tecogen.com



Made In The USA

