



Why **TECOCHILL**?

Natural Gas Engine-Driven Chillers

If you're serious about growing, get a serious cooling system!

Indoor commercial growers will significantly reduce their energy costs using clean, plentiful natural gas.

Lowest Operating Cost

Natural gas chillers have the lowest operating cost, especially when compared to electric chillers. Cut costs by as much as 30% to 60%.

Lowest Electrical Consumption

Tecogen chillers operate on single phase power using only 1-2 kW and can run with much smaller backup generator to protect plants during a power outage. (A similar electric chiller requires 100-400 kW.)

Great for sites with limited electric capacity.

For new sites, smaller electric feed means savings on building costs.

Free CO₂

Tecogen's Ultra exhaust after-treatment is the cleanest in the world with near zero CO and NO_x. Our exhaust gases can be used for CO₂ enrichment, increasing yield as much as 70%

Free Hot Water

Engine driven chillers produce a huge amount of free waste heat which can be used for process heating, space heating, DHW or to drive an absorber providing additional cooling capacity.

Nationwide Factory Service

Internet or Cellular Remote Monitoring & Control

OSHPD and IBC Seismic Certification

ETL Listed, UL approved

Hundreds of chillers have operated successfully for decades in schools, hospitals, nursing homes, hotels, apartments/condos, ice rinks & industrial facilities



Tecogen is the industry leader in engine-driven chillers with over 30 years of experience.

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 1-2 kW single-phase power required for water-cooled units

Versatility:

- Heat recovery options
- Low-temperature applications

Models Available

- 50 ton air-cooled
- 150 to 400 ton water-cooled

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 communication system only requires a customer internet connection or cellular modem
- BACNet integration available

TecoDrive® 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 80 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 Ultra™ ultra low-emission package for less than 0.15 gm/bhp-hr of NOx

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
- Can be used to drive absorber for additional cooling

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 CO₂ for enrichment to increase yield

Environmentally Friendly

- Meets ultra-low emissions standards, SCAQMD (Southern CA) compliant
- Reduced global warming (lowest fuel input per unit of cooling of any chiller)
- Reduced fossil fuel use
- Reduced greenhouse gas emissions due to use of natural gas (especially when displacing electricity produced from coal or oil)

Engineering & Support

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

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:

- Preventative maintenance
- Troubleshooting and repair

OSHPD and IBC
Seismic Certification

