

TECOGEN[®] CM-60 & CM-75

Combined Heat and Power Modules

with *Ultra* low emissions option available

Energy efficiency re-imagined.
Powered by clean, plentiful natural gas.
Tecogen, the pioneer in modular CHP.

Exceptional Cost Savings

Tecogen CHP products are among the most efficient ways to provide electricity and heat to a building. Fueled by plentiful and inexpensive natural gas, a proven internal combustion engine provides on-site generation of electricity while its high-grade waste heat is recovered and purposefully used to serve the building's hot water needs. This boost in overall efficiency translates into immediate dollar savings of up to 50% for building owners.

Clean Energy

Extraordinary efficiency translates into less fuel consumption for the same amount of electrical and thermal energy produced. This results in a considerable reduction in greenhouse gas (GHG) emissions of more than 40%. Also, with Tecogen's patented *Ultra* system, pollutant emissions are nearly eliminated, meeting the toughest air emission standards in the United States including in California and the Northeast. In New Jersey, for instance, the *Ultra* system is air permit exempt. With *Ultra*, the resulting NOx/CO emissions levels are comparable to, or lower than, those from less efficient gas-consuming generation technologies, such as microturbines and fuel cells.

Unsurpassed Quality and Safety

TECOGEN[™] modules are ETL-Listed for product safety certification and have been type tested to comply with the interconnection standards of IEEE P1547/ D07 and NYSIR, and are certified by UL as Non-Islanding. All units are factory run-tested at full-load prior to shipment to ensure superior quality.

Simplified Installation and Interconnection

Modules come fully pre-packaged from the factory, including engine, generator, oil/ jacket/ exhaust heat recovery, controls, electrical switchgear, emissions controls, and modem for remote monitoring and data-logging. This allows for standardization and minimizes installation cost and complexity in the field. Also, the comprehensive third-party (ETL/IEEE/NYSIR/UL) certifications provide streamlined interconnection permitting with the local electric utility.



Tecogen is a leading next-generation manufacturer of natural-gas-fueled, engine-driven, combined heat and power (CHP) products that aim to reduce energy costs, reduce greenhouse gas emissions, and alleviate congestion on the national power grid. The installed base of more than 2,000 units is supported by a unique and established network of factory engineering and field sales and service personnel located in California, the Midwest and the Northeast.



CA Rule 21 - Certified
NJDEP - Air Permit Exempt
NYSIR - Certified

Specifications:¹

Induction-Based Cogeneration

Engine	<i>Proven Low-Emission Natural Gas V-8 Engine, 454 cid, 1820 rpm</i>			
Generator	<i>Marathon Induction-Based Generator</i>			
Controls	<i>TecoNet™ Microprocessor-Based System, Fully Automatic, Fault Monitoring, Lead/Lag Multiple Unit Control, Modbus Networking & Internet-Based Remote Telecommunications</i>			
	CM-60 Low Emissions	CM-60 Ultra Low Emissions	CM-75 Low Emissions	CM-75 Ultra Low Emissions
Electrical Output (kW)	60 kW		75 kW	
Thermal Output (Btu/hr)	458,000	439,000	511,000	489,000
Engine Jacket/Exhaust Manifolds	301,000	301,000	336,000	336,000
Remote Exhaust Gas Heat Exchanger	157,000	138,000	175,000	153,000
Gas Input	782 scfh		927 scfh	
Overall Efficiency				
@ LHV of 905 Btu/scf	93.6%	90.9%	91.4%	88.8%
@ HHV of 1020 Btu/scf	83.1%	80.7%	81.1%	78.7%
Required Gas Pressure	10-28" wc			
Design Hot Water Flow	22 gpm (24 gpm max)			
Maximum Leaving Water Temperature	230° F			
Maximum Entering Water Temperature	180° F			
Electrical Service	208V / 230V / 460V, 3 PH, 3-wire			
Acoustic Level	70 dBa @ 20'			
Dimensions	7' 2"L x 3' 8"W x 3' 10"H			
Weight	3000 lbs			
IEEE P1547/D07 - Certified by Intertek Testing Services to be in compliance with this Draft Standard for Interconnecting Distributed Resources with Electric Power Systems.				
California Rule 21 - Certified to meet the Type Testing and Production Testing requirements for California Rule 21. (www.energy.ca.gov/distgen/interconnection/certification.html)				
NYSIR—Accepted as Type Tested and Approved Equipment by the New York State Public Service Commission Standard Interconnect Requirements. (www.dps.ny.gov/distgen.htm)				

¹ All specifications are +/- 5% and are subject to change without notice. Performance data is valid up to 100 °F ambient temperature.



Tecogen products are covered under one or more of the following U.S. patents:
8,578,704 7,239,034 7,243,017
and other patents pending



Outdoor Enclosure Option