

AEGEN THERMO POWER™ TP-75



The AEGEN THERMO POWER 75 is a compact, modular combined heat and power (CHP) system producing 75 kW of power and 5.23 therms of heat per hour. A three-way non-selective catalyst reduction (NSCR) emissions control package includes a catalytic converter and temperature and oxygen controls designed to reduce emissions of nitrogen oxide, carbon monoxide, and hydrocarbons. The CHP module has a natural gas-fired reciprocating engine, an induction generator, heat recovery system, a sound attenuating enclosure, electrical switchgear, and solid-state controls for automatic and unattended operation. High efficiency heat recovery components consist of oil cooler, engine jacket for heat transfer, marine type exhaust gas manifolds and exhaust gas heat exchangers. The AEGEN THERMO POWER 75 operates in parallel with existing mechanical and electrical systems in the facility. The module includes an advanced utility-grade relay (U.L., C.S.A., and C.E. listed or certified) for electrical protection and redundancy as standard equipment.

Features

- ✦ Reliable, proven technology
- ✦ Highly efficient
- ✦ Environmentally sound with low emissions
- ✦ Quiet operation
- ✦ Modular – scaleable into larger systems
- ✦ Compact – easily fits in most buildings
- ✦ Indoor or outdoor installation
- ✦ Ease of installation – no business disruption
- ✦ U. L. listed
- ✦ Remote monitoring and control
- ✦ Digital display and user-friendly interface
- ✦ Infinite system life with maintenance program
- ✦ Electric and thermal load following
- ✦ Modbus compatible for networking with building automation systems



Characteristic	MODELS			
	Induction		Synchronous	
	TP-75	TP-75 LE	TPS-75	TPS-75 LE
Electrical Power Output	75 kW	75 kW	75 kW	75 kW
Thermal Output	484,000 Btus/hour	523,000 Btus/hour	484,000 Btus/hour	523,000 Btus/hour
Gas Input	865 standard cubic feet per hour (scfh)	930 standard cubic feet per hour (scfh)	865 standard cubic feet per hour (scfh)	930 standard cubic feet per hour (scfh)
Required Gas pressure	4 to 10 inches water column	10 to 14 inches water column	4 to 10 inches water column	10 to 14 inches water column
Efficiency	83.9%. at HHV of 1,020 Btus/scf	82.1%. at HHV of 1,020 Btus/scf	83.9%. at HHV of 1,020 Btus/scf	82.1%. at HHV of 1,020 Btus/scf
Max Output Water Temperature	230° F			
Weight	3,050 pounds			
Suspension	Vibration isolation mounts			
Dimension	46" width x 89" length x 49" height			
Acoustic Level (enclosed)	70 decibels (dba) from 20 feet away			
Output Voltage	208V or 460V nominal, 3 Phase, 3-wire			
Emissions	Each Aegen Thermo power model meets stringent air quality standards and requirements			

