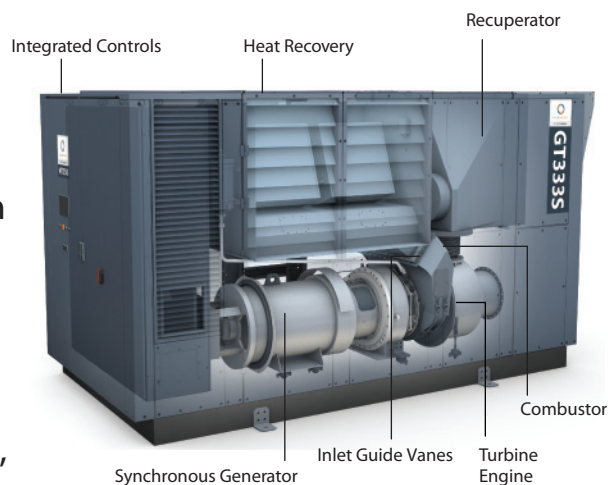


High Efficiency Gas Turbine Generator with Ultra Low Emissions

333 kW Continuous Electrical Power with Optional Integrated Heat Recovery

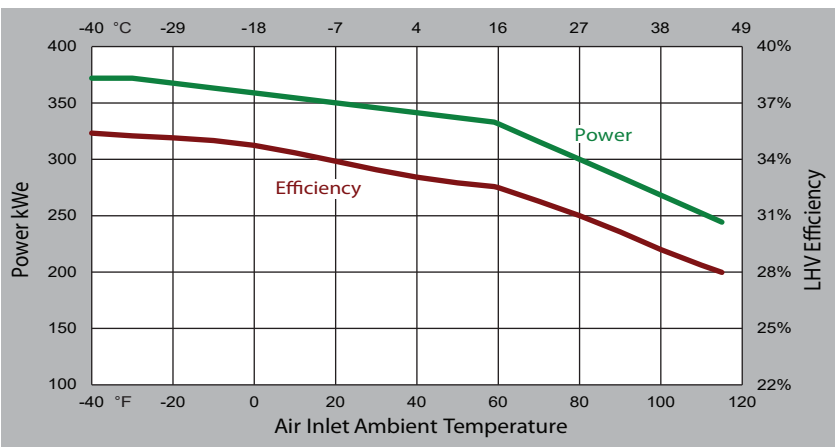
KEY FEATURES

- Fuel Flexibility: Seamless transition between Natural Gas & LPG
- California Air Resources Board (CARB) 2007 Certification
- Maximum total efficiency over 85%
- Synchronous generator ideal for managing site loads
- Grid-parallel, Grid-isolated, or Dual-mode operation
- Configurable with factory fitted heat recovery module, third party WHRUs or double effect absorption chillers
- Widest fuel tolerance of any small capacity gas turbine
- Only 8 hours of annual maintenance required



ELECTRICAL PERFORMANCE*

CHARACTERISTIC	SPECIFICATION
Electrical efficiency	33% LHV without gas booster
Electrical power	333 kW



* At ISO Conditions (59°F [15°C], sea level, 60% RH), pipeline natural gas
 Electrical efficiency tolerance: +1/-2.5 pts
 Electrical power tolerance: ± 20kW
 Elevation derate of approximately 3.5% per 1000 ft (305 m).
 There is a 3 kW power reduction when utilizing waste heat recovery (cogen)

Nominal Heat Rate (HHV)	11,552 Btu/kWh (12.2 MJ/kWh) w/o gas booster 11,909 Btu/kWh (12.6 MJ/kWh) w/ gas booster
Nominal Heat Rate (LHV)	10,502 Btu/kWh (11.1 MJ/kWh) w/o gas booster 10,827 Btu/kWh (11.4 MJ/kWh) w/ gas booster
Voltage	480 VAC / 400 VAC
Frequency	60 Hz / 50 Hz
Type of Service	3 phase, wye, 4 wire
Grid-isolated Regulation (Steady State)	± 0.50% nominal voltage ± 0.30 Hz nominal frequency
Transient Handling (Linear Loads) (Recovery within 5 sec)	± 10% nominal voltage max ± 5 Hz frequency max

RUGGED GAS TURBINE

- Back-to-back rotating components
- Proven oil-lubricated bearings
- H₂S tolerance up to 6500 ppmv

SYNCHRONOUS GENERATOR

- Same technology utilities use to power the grid
- High load starting capability up to 125 hp DOL

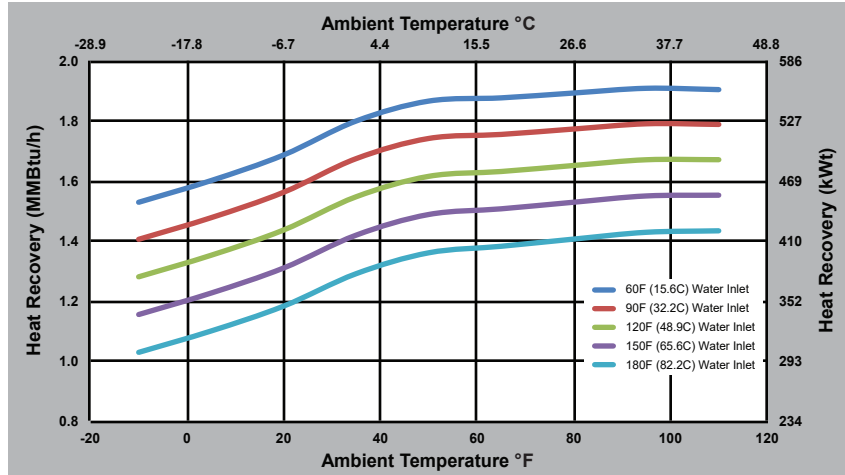
PATENTED RECUPERATOR

- Critical to high system efficiency
- Compact rugged design

COMBINED HEAT AND POWER

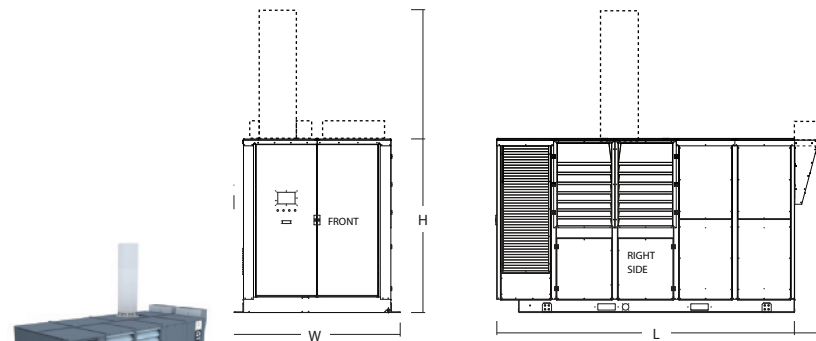
- Controllable output level
- Integral heat recovery unit contained within turbine enclosure

HEAT OUTPUT RECOVERABLE TO WATER



Note: Heat Recovery Unit (HRU) at 200 gpm (757 lpm) water flow, sea level, ± 15%

PHYSICAL SPECIFICATIONS



Weatherproof
Outdoor
Enclosure

DIMENSIONS		WIDTH	LENGTH	HEIGHT	WEIGHT Est.
Indoor Unit	(in)	76.0	164.1	89.6	14,500 lb
	(cm)	193.0	416.9	227.6	6,577 kg
Outdoor Unit	(in)	76.0	165.0	155.6	14,500 lb
	(cm)	193.0	419.1	395.2	6,577 kg

SOUND LEVELS

CHARACTERISTIC	SPECIFICATION
Standard	62 dB(A) @ 10m
Low sound option (not available on all models)	55 dB(A) @ 10m



Generator
Braking
Resistor

GENERATOR BRAKING RESISTOR

CHARACTERISTIC	SPECIFICATION
Dimensions (LxWxH)	43x63x31 (110x160x78 cm)
Weight	595 lb (270 kg)

CONTACT INFORMATION

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ADDRESS
30 New Hampshire Avenue
Portsmouth, NH 03801
United States

HEAT RECOVERY*

CHARACTERISTIC	SPECIFICATION
Exhaust temp (w/o HRU)	507°F (264°C)
Engine air flow	5.0 lb/s (2.3 kg/s) 3990 scfm (6400 Nm³/h)
Max available heat (direct exhaust)	1.9 MMBtu/h (556 kW)
Max water flow	225 gpm (852 lpm)
Max inlet water pressure	125 psig (862 kPa)
Max outlet water temp.	205°F (96°C)

* At ISO Conditions (59°F [15°C], sea level, 60% RH)
Available heat based on exhaust recovery down to 59°F (15°C)

FUEL REQUIREMENTS*

CHARACTERISTIC	SPECIFICATION
Fuel Consumption (LHV)	3.5 MMBtu/h (1025 kW)
Inlet pressure	
-with gas booster	4" (100 mm) WC to 1 psig (6.9 kPa)
-without gas booster	70 to 140 psig (483 to 965 kPa)
Min temperature**	35°F (2°C)
Max temp.	
-with gas booster	115°F (46°C)
-without gas booster	175°F (79°C)
333SW Model	325 to 600 WI Btu/ft³ 12.1 to 22.3 WI MJ/m³
333ST Model	500 to 970 WI Btu/ft³ 18.6 to 36.1 WI MJ/m³
333SM Model	800 to 1900 WI Btu/ft³ 29.8 to 70.7 WI MJ/m³

* Fuel consumption based at ISO conditions
** Or 18°F (10°C) dewpoint suppression, whichever is greater
WI - Wobbe Index Lower heating value (LHV)

EMISSIONS AT 100% LOAD*

CHARACTERISTIC	SPECIFICATION
NOx	<5 ppmv @ 15% O₂
CO	<5 ppmv @ 15% O₂
VOC	<5 ppmv @ 15% O₂

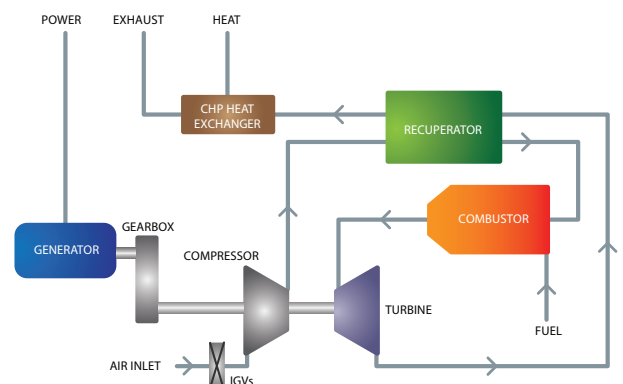
* Pipeline natural gas only at ISO conditions

AMBIENT TEMPERATURE LIMIT

CHARACTERISTIC	SPECIFICATION
Standard	-10° to 115°F (-23° to 46°C)
Cold Weather Option*	-20° to 115°F (-29° to 46°C)

* Some configurations may require additional cold weather options

GT333S GAS TURBINE CYCLE



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