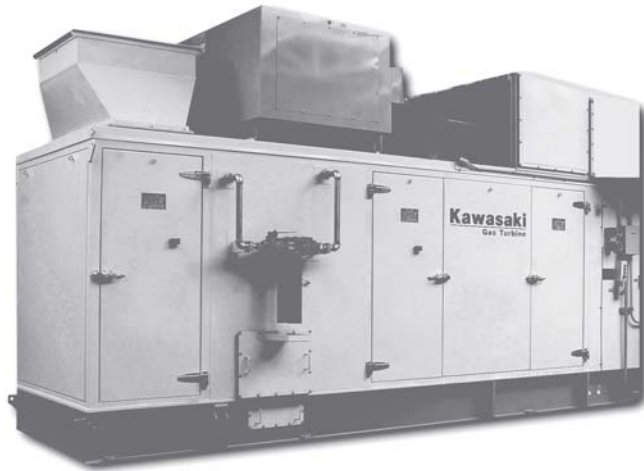


GPB15X Gas Turbine

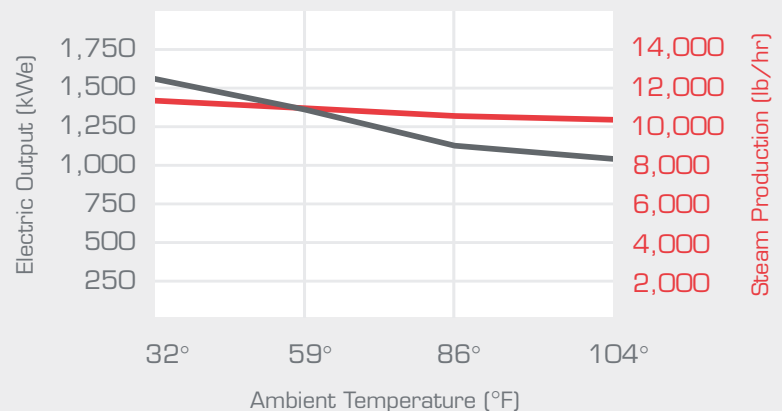


- // PROVEN INDUSTRIAL DESIGN
- // WORLD'S LOWEST EMISSIONS
- // CATALYTIC COMBUSTION SYSTEM
- // EASY INSTALLATION
- // OPTIMIZED FOR COGEN APPLICATIONS
- // PROVEN RELIABILITY
- // LOW MAINTENANCE

A CLOSER LOOK

- // Ideal for installation in hospitals, universities, institutions, district heating and cooling, pharmaceutical, and other facilities with a significant thermal and electrical load
- // Offers 77% cogeneration efficiency
- // Compact design is ideal for all applications requiring a small footprint
- // Eliminates the need for large, costly cleanup devices and systems, as well as the environmental hazards associated with such systems
- // Patented catalytic combustion technology meets even the most stringent emissions requirements with less than 2.5 ppm NOx emissions
- // Engineered specifically for long service intervals, low maintenance and rapid installation
- // Based on an engine platform with over 20 years of commercial experience and proven reliability

GPB15X Performance



(KW)

GPB15X

CHP								Gas Turbine			
Amb. Temp	Electric Output	Fuel Consumption	Steam Production*		Electrical Efficiency	Recovery Efficiency	Overall Efficiency	Gas Flow	Air Flow	Exhaust Flow	Exhaust Temp
°F	kWe	MMBtu/hr	lb/hr	MMBtu/hr	%	%	%	scfh	lb/s	lb/s	°F
32	1,580	22.4	11,100	11.1	24.1	49.6	73.7	24,751	18.64	18.75	968
59	1,390	20.4	10,900	10.9	23.3	53.4	76.7	22,541	17.28	17.38	982
86	1,190	18.6	10,500	10.5	21.9	56.5	78.4	20,552	15.97	16.05	1,004
104	1,060	17.6	10,400	10.4	20.6	59.1	79.7	19,448	15.10	15.18	1,024

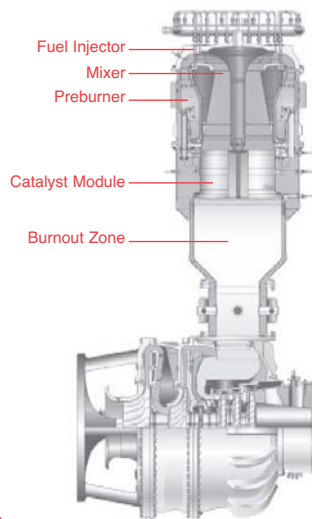
Fuel: Gas (905 BTU/scf), NOx Reduction: Catalytic Combustor, NOx: 2.5 ppm, CO: 10.0 ppm, VOC: 2.0 ppm

Note:

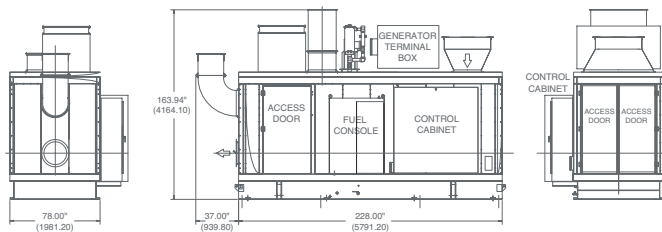
Emission guarantee 70-100% load
 4/10" intake/exhaust pressure loss
 Sea level
 Required gas pressure: 300 psig

* Contact Kawasaki Application Engineering for site-specific performance
 * Not for guarantee

PACKAGE LAYOUT



Engine Configuration



Generator Set Package

STANDARD EQUIPMENT

- // M1A-13X gas turbine with catalytic combustion system
- // Reduction gearbox and gearbox-to-generator coupling
- // Indoor enclosure, sound attenuated to 85 dBA, with lighting and ventilation
- // 4160 V generator
- // Steel base skid, primed and painted with anchor bolts and nuts
- // Duplex lube oil system with dual air-to-oil coolers
- // Natural gas fuel system
- // Air inlet plenum
- // Exhaust bellows and clamp
- // VFD start system
- // State-of-the-art gas turbine/generator control panel
- // Fire detection/suppression system
- // Touch-screen HMI
- // Long-Term Service Agreement

FOR MORE INFORMATION:

Kawasaki Gas Turbines—Americas
 8829 North Sam Houston Parkway West
 Houston, Tx 77064
 P 281 970 3255
 F 281 970 6465
 www.kawasakigasturbines.com