GGW130 | 9.0L | 130 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

PRAMAC | Power Engineering Division

*Assembled in the USA using domestic and foreign parts

Image used for illustration purposes only

Power Ratings		
GGW130	Standby	130kW/163kVA

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

BS5514 and DIN 6271

SAE J1349

ISO 3046, 7637, 8528, 9001

NEMA ICS10, MG1, 250, ICS6, AB1

ANSI C62.41

ENERGY GENERATION

PRAMAC ensures superior quality and performance by managing all aspects of production: from design to manufacturing.

PRAMAC can trace its roots back to 1966; from then onwards it has been expanding its activity in the energy and material-handling sector, continuously growing globally with a wide and flexible product range.

In the field of power generation, PRAMAC offers solutions for every kind of power supply demand: portable and industrial generators for stand by and prime power applications and mobile and towable lighting for outdoor needs.

PRAMAC operates through a wide distribution network and provides global coverage even in the most demanding markets.

GGW130 | 9.0L | 130 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

PRAMAC | Power Engineering Division

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer/Catalyst

Fuel System

- NPT Fuel Connection on Frame
- Primary and Secondary Fuel Shutoff

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Amortisseur Winding
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping (Enclosed Units Only)
- Standard Factory Testing
- 1 Year Limited Warranty or 1,000 Hours
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

CONTROL SYSTEM

Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- ○ Engine Block Heater
- ○ Air Filter Restriction Indicator
- ○ Radiator Stone Guard (Open Set Only)
- ○ Critical Silencer (Open Set Only)
- ○ Baseframe Cover/Rodent Guard
- ○ Fan and Belt Guards (Enclosed Units Only)
- ○ Oil Heater

FUEL SYSTEM

- ○ NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- ○ 10A Battery Charger
- ○ Battery Warmer

ALTERNATOR SYSTEM

- ○ Alternator Upsizing
- ○ Anti-Condensation Heater
- ○ Tropical Coating
- ○ Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS

- ○ Main Line Circuit Breaker
- ○ Shunt Trip and Auxiliary Contact
- ○ Electronic Trip Breaker

GENERATOR SET

- ○ Extended Factory Testing (3-Phase Only)
- ○ 8 Position Load Center

ENCLOSURE

- ○ Weather Protected Enclosure
- ○ Level 1 Sound Attenuation
- ○ Level 2 Sound Attenuation
- ○ Level 2 Sound Attenuation with Motorized Dampers
- ○ Steel Enclosure
- ○ Aluminum Enclosure
- ○ AC/DC Enclosure Lighting Kit
- ○ Enclosure Heater (with Motorized Dampers)
- ○ Pad Vibration Isolators
- ○ Up to 321 KPH Wind Load Rating (Contact Factory for Availability)
- ○ Door Open Alarm Switch

CONTROL SYSTEM

- ○ 21-Light Remote Annunciator
- ○ Remote Relay Assembly (8 or 16)
- ○ Oil Temperature Indication and Alarm
- ○ Remote E-Stop (Break Glass-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Flush Mount)
- ○ 10A Engine Run Relay
- ○ Ground Fault Annunciator
- ○ 100 dB Alarm Horn
- ○ 120V GFCI and 240V Outlets
- ○ Remote Communication - Modem
- ○ Damper Alarm Contacts (with Motorized Dampers Only)

ENGINEERED OPTIONS

ENGINE SYSTEM

- ○ Coolant Heater Ball Valves
- ○ Fluid Containment Pan

CONTROL SYSTEM

- ○ Battery Disconnect Switch

GENERATOR SET

- ○ Special Testing
- ○ Battery Box

GGW130 | 9.0L | 130 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

PRAMAC | Power Engineering Division

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	8
Type	V
Displacement - In^3 (L)	543 (8.9)
Bore - in (mm)	4.49 (114.3)
Stroke - in (mm)	4.25 (107.95)
Compression Ratio	9.1:1
Intake Air Method	Turbocharged
Number of Main Bearings	5
Connecting Rods	Forged Steel
Cylinder Head	Cast Iron
Cylinder Liners	No
Ignition	High Energy
Piston Type	Aluminum Alloy
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic Roller
Intake Valve Material	Steel Alloy
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	Yes

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear Driven
Oil Filter Type	Full Flow Spin-On Cartridge
Crankcase Capacity - qt (L)	10 (9.5)

Cooling System

Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed - RPM	2,386
Fan Diameter - in (mm)	22 (559)

Fuel System

Fuel Type	Natural Gas, Propane
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure - in H_2O (kPa)	7 - 11 (1.7 - 2.7)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	40 A
Battery Size	See Battery Index 10000016949
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0150124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Permanent Magnet
Bearings	Single Sealed Ball
Coupling	Direct Drive
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

GGW130 | 9.0L | 130 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

PRAMAC | Power Engineering Division

OPERATING DATA

POWER RATINGS - NATURAL GAS/PROPANE VAPOR

	Standby
Single-Phase 120/240 VAC @1.0pf	130 kW/130 kVA Amps: 542
Three-Phase 120/208 VAC @0.8pf	130 kW/163 kVA Amps: 452
Three-Phase 120/240 VAC @0.8pf	130 kW/163 kVA Amps: 391
Three-Phase 277/480 VAC @0.8pf	130 kW/163 kVA Amps: 196
Three-Phase 346/600 VAC @0.8pf	130 kW/163 kVA Amps: 157

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip

277/480 VAC	30%	208/240 VAC	30%
K0130124Y21	327	K0130124Y21	327
K0150124Y21	326	K0150124Y21	244
K0200124Y21	478	K0200124Y21	361

FUEL CONSUMPTION RATES*

Natural Gas – scfh (m^3/hr)

Percent Load	Standby
25%	635 (18.0)
50%	1,005 (28.4)
75%	1,401 (39.7)
100%	1,797 (50.9)

LPV – scfh (m^3/hr)

Percent Load	Standby
25%	265 (7.5)
50%	390 (11.0)
75%	516 (14.6)
100%	642 (18.2)

LPL – gph (Lph)

Percent Load	Standby
25%	6.3 (23.8)
50%	10.1 (38.2)
75%	14.0 (53.0)
100%	17.7 (67.0)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Air Flow (Fan Air Flow Across Radiator) - Open Set	cfm (m^3/min)	7,445 (211)
Coolant Flow	gpm (Lpm)	28 (104)
Coolant System Capacity	gal (L)	6.3 (24.0)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No. 0199270SSD
Maximum Additional Radiator Backpressure	in H_2O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power - cfm (m^3/min)	298 (8.4)

ENGINE

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW	hp	194
Piston Speed	ft/min (m/min)	1,275 (389)
BMEP	psi (kPa)	157 (1,083)

Deration - See Bulletin No. 10000011339.
60Hz - See Bulletin No. 10000011339.
50Hz - See Bulletin No. 10000011319.

EXHAUST

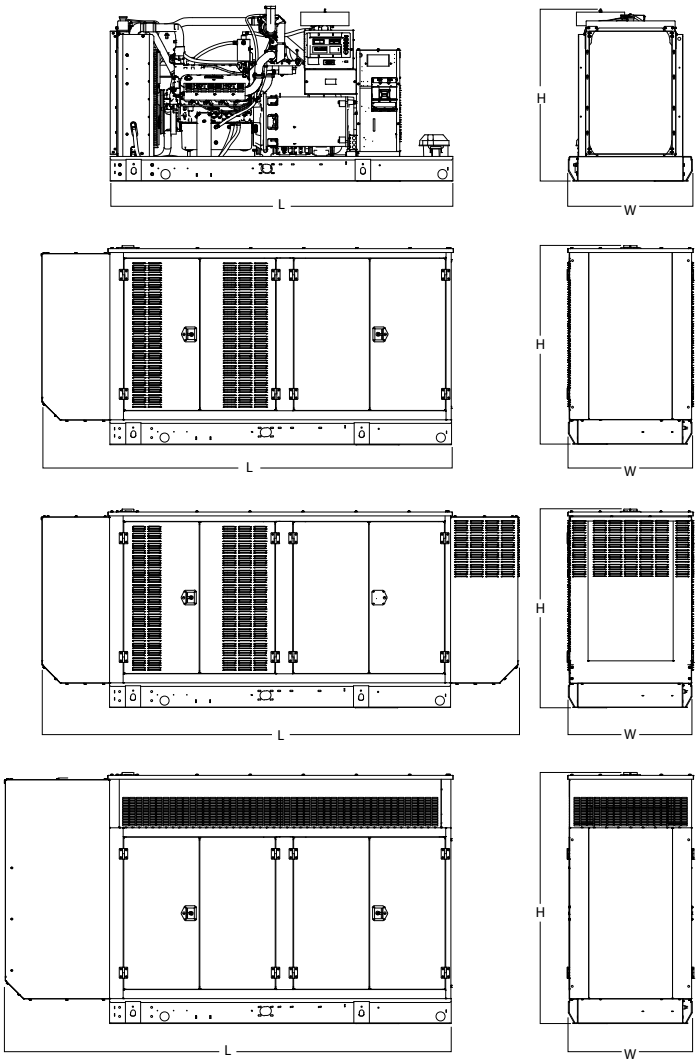
		Standby
Exhaust Flow (Rated Output)	cfm (m^3/min)	1,033 (29)
Maximum Allowable Backpressure (Post Silencer)	inHg (kPa)	0.75 (2.54)
Exhaust Temperature (Rated Output)	°F (°C)	1,413 (767)

GGW130 | 9.0L | 130 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

PRAMAC | Power Engineering Division

DIMENSIONS AND WEIGHTS*



OPEN SET

L x W x H - in (mm)	110 (2,794) x 39.9 (1,013) x 54.3 (1,378)
Weight - lbs (kg)	2,627 - 2,674 (1,129 - 1,213)

WEATHER PROTECTED ENCLOSURE

L x W x H - in (mm)	132.7 (3,371) x 40.5 (1,029) x 64.1 (1,627)
Weight - lbs (kg)	Steel: 3,388 - 3,434 (1,537 - 1,558) Aluminum: 3,009 - 3,055 (1,365 - 1,386)

LEVEL 1 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	129.5 (3,289) x 40.5 (1,029) x 56.2 (1,427)
Weight - lbs (kg)	Steel: 3,624 - 3,670 (1,644 - 1,665) Aluminum: 3,110 - 3,157 (1,411 - 1,432)

LEVEL 2 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	144.5 (3,670) x 40.5 (1,029) x 80.9 (2,054)
Weight - lbs (kg)	Steel: 3,743 - 3,789 (1,689 - 1,719) Aluminum: 3,161 - 3,207 (1,434 - 1,455)

* Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please contact a PRAMAC Industrial Dealer for detailed installation drawings.

PR Industrial s.r.l. | Località Il Piano snc | 53031 Casole d'Elsa, Siena - Italy

Part No. 10000012073
Rev. C 08/06/2020