

130 / 150 kW Liquid-Cooled Generator Sets

Standby Power Rating

HG13090 – (Aluminium, Dark Gray) – 130 kW 60 Hz

HG15090 – (Aluminium, Dark Gray) – 150 kW 60 Hz

INCLUDES

- **Innovative design and prototype testing:** These are key components of Honeywell's success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose Honeywell with the confidence that these systems will provide superior performance.
- **Test Criteria:** Prototype tested; NEMA MG1-22 Evaluation; System torsional tested; Motor starting ability.
- **Solid-State, Frequency Compensated Voltage Regulation:** This state-of-the-art, power maximizing regulation system is the standard on all Honeywell models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Provides precise digital voltage regulation for sensitive electronics.
- **Single Source Service Response:** From Honeywell's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **Honeywell Transfer Switches:** Long life and reliability are synonymous with Honeywell. One reason for this confidence is the Honeywell product line is offered with its own transfer systems and controls for total system compatibility.



FEATURES & BENEFITS

- Power Zone[®] 410 controller
- Closed coolant recovery system
- Voltage regulation designed for sensitive electronics
- UV/Ozone resistant hoses
- 5 Year limited warranty
- Sound attenuated aluminum enclosure
- Smart battery charger
- UL 2200 Listed
- Isochronous electronic governor

130 / 150 kW Technical Specifications

GENERATOR SPECIFICATIONS		130 / 150 kW
Type	Synchronous	
Rotor insulation class	H	
Stator insulation class	H	
Telephone Interference Factor (TIF)	<50	
Alternator output leads 1-Phase	4 Wire	
Alternator output leads 3-Phase	12 Wire	
Bearings	Sealed Ball	
Coupling	Flexible Disc	
Excitation system	Synchronous	
Total Harmonic Distortion	<5%	
VOLTAGE REGULATION		
Type	Full Digital	
Sensing	All	
Regulation	Designed for Sensitive Electronics	
GOVERNOR SPECIFICATIONS		
Type	Electronic	
Frequency regulation	Isochronous	
Steady state regulation	Designed for Sensitive Electronics	
ELECTRICAL SYSTEM		
Battery charge alternator	40 Amp	
Static battery charger	5 Amp	
Recommended battery (battery included)	Group 31, 925 CCA	
System voltage	12 Volts	
GENERATOR FEATURES		
Revolving field heavy duty generator Directly connected to the engine Operating temperature rise 135° C above 25° C ambient Class H insulation is NEMA rated All models fully prototype tested		
ENCLOSURE FEATURES		
Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.	
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.	
Small, compact, attractive	Makes for an easy, eye appealing installation.	
SAE	Sound attenuated enclosure ensures quiet operation.	

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

ENGINE SPECIFICATIONS		130 / 150 kW
Make	Generac	
Type	V	
Cylinders	8	
Displacement (L)	8.9	
Bore - mm (in)	114 (4.5)	
Stroke - mm (in)	108 (4.25)	
Compression ratio	9.1:1	
Intake air system	Turbocharged and Aftercooled	
Lifter type	Hydraulic Roller	
ENGINE LUBRICATION SYSTEM		
Oil pump type	Gear	
Oil filter type	Full Flow Spin-On Cartridge	
Crankcase capacity - L (qt)	9.9 (10.5)	
ENGINE COOLING SYSTEM		
Type	Pressurized Closed	
Water pump	Belt-Driven	
Fan speed - RPM	2,330	
Fan diameter - mm (in)	559 (22)	
Fan mode	Pusher	
FUEL SYSTEM		
Fuel type	Natural Gas or Liquid Propane (model specific)	
Carburetor	Down Draft	
Secondary fuel regulator	Standard	
Fuel shutoff solenoid	Standard	
NG fuel pressure - kPa (in. WC)	1.74-2.74 (7-11)	
LP fuel pressure - kPa (in. WC)	1.74-2.74 (7-11)	

130 / 150 kW Operating Data

GENERATOR OUTPUT POWER & AMPERAGE - 60 HZ

		STANDBY POWER USING LP (kW)	STANDBY AMPERAGE USING LP (A)	STANDBY POWER USING NG (kW)	STANDBY AMPERAGE USING NG (A)	CB SIZE (BOTH)
HG13090	120/240 V, 1Ø, 1.0 pf	130	542	130	542	600
	208/120 V, 3Ø, 0.8 pf	130	451	130	451	500
	240/120 V, 3Ø, 0.8 pf	130	391	130	391	400
	480/277 V, 3Ø, 0.8 pf	130	195	130	195	225
HG15090	120/240 V, 1Ø, 1.0 pf	134	558	144	600	700
	208/120 V, 3Ø, 0.8 pf	140	486	150	520	600
	240/120 V, 3Ø, 0.8 pf	140	421	150	451	500
	480/277 V, 3Ø, 0.8 pf	140	210	150	226	250

SURGE CAPACITY IN AMPS

		Surge Amperage AT 30% VOLTAGE DIP (A)
HG13090	120/240 V, 1Ø	854
	208/120 V, 3Ø	816
	240/120 V, 3Ø	707
	480/277 V, 3Ø	351
HG15090	120/240 V, 1Ø	617
	208/120 V, 3Ø	619
	240/120 V, 3Ø	536
	480/277 V, 3Ø	351

ENGINE FUEL CONSUMPTION

		Liquid Propane L/h (US gph)	Natural Gas m ³ /h (SCFH)
HG13090	25% of rated load	17.9 (4.7)	14.4 (509)
	50% of rated load	28.9 (7.6)	24.3 (858)
	75% of rated load	40.0 (10.6)	34.1 (1,204)
	100% of rated load	51.1 (13.5)	44.0 (1,554)
	100% of rated load	51.1 (13.5)	44.0 (1,554)
HG15090	25% of rated load	19.4 (5.1)	15.9 (562)
	50% of rated load	31.8 (8.4)	27.3 (964)
	75% of rated load	44.9 (11.9)	38.3 (1,353)
	100% of rated load	58.1 (15.3)	50.1 (1,769)
	100% of rated load	58.1 (15.3)	50.1 (1,769)

Note: Fuel pipe must be sized for full load.

Natural Gas - 37.26 MJ/m³ (1,000 BTU/ft.³)

Liquid Propane - 25.5 MJ/L (91,420 BTU/US gal); 0.27 m³/L (36 ft.³/US gal); 0.507 kg/L (4.24 lb./US gal)

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

130 / 150 kW Operating Data

ENGINE COOLING

MODEL	130 kW	150 kW
Air Flow (Fan Air Flow Across Radiator) - m ³ /min (SCFM)	153 (5,415)	158 (5,598)
System Coolant Capacity - L (US gal)	24 (6.3)	24 (6.3)
Heat Rejection to Coolant - kW (BTU/min)	71.3 (243,000)	71.3 (243,000)
Maximum Ambient Temperature - °C (°F)	50 (122)	50 (122)

COMBUSTION REQUIREMENTS

Airflow at Rated Power - m ³ /min (SCFM)	10.5 (371)	9.7 (343)
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SOUND EMISSIONS

Sound Output at Normal Load - dB(A) at 7 m (23 ft)	75	80
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EXHAUST

Exhaust Airflow at Rated Output - m ³ /min (SCFM)	34.0 (1,200)	34.1 (1,204)
Exhaust Temperature at Rated Output - °C (°F)	696 (1,285)	782 (1,440)

ENGINE PARAMETERS

Rated Engine Speed - RPM	1,800
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POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration HG13090 using NG & LP.....	25°C (77°F) before derate, 3% per every 5°C above 25°C (1.7% per every 5°F above 77°F)
Temperature Deration HG15090 using NG.....	25°C (77°F) before derate, 7.2% per every 5°C above 25°C (2% per every 5°F above 77°F)
Temperature Deration HG15090 using LP.....	25°C (77°F) before derate, 9.9% per every 5°C above 25°C (2.8% per every 5°F above 77°F)
Altitude Deration HG13090.....	1% per every 100 m above 183 m (3% per every 1,000 ft. above 600 ft.)
Altitude Deration HG15090.....	0.7% per every 100 m above 183 m (2.1% per every 1,000 ft. above 600 ft.)

CONTROLLER FEATURES

STANDARD FEATURES

128 x 64 Graphical Display with Heater	Multi-Lingual	Full System Status
Three Phase Sensing Digital Voltage Regulator	Full Range Standby Operation	Remote Communication
Programmable Auto Crank	Emergency Stop	On / Off Manual Switch
Not in Auto Flashing Light	Selectable Low Speed Exercise	NFPA 110 Capable**
5 A Integrated Battery Charger***		

Full System Status: • Three Phase AC Volts • Three Phase Amps • kW • Power Factor • Oil Pressure • Water Temperature • Oil Temperature* • Oil Level* • Fuel Pressure and Level • Engine Speed • Battery Voltage • Alternator Frequency • Time • Date • Line Power and Gen Power • Run Hours • Service Reminders • Fault History (Alarm Log)

STANDARD PROTECTIONS

Low Oil Pressure	Low Coolant Level	High / Low Coolant Temperature
Oil Temperature	Over / Under Speed	Over / Under Voltage
Over / Under Frequency	Over / Under Current	Over Load
Battery Voltage	Battery Charger Current	Phase to Phase and Phase to Neutral Short Circuits (I ² T Algorithm)
Ground Fault		

DISPLAY

Easy Menu Structure	Multi-Lingual	On Screen Editable Parameters
Key Function Monitoring: • Three Phase Voltage, Amperage, kW, kVa, and kVAr • Selectable Average or Line to Neutral Voltage Measurements • Frequency • RPM • Engine Coolant Temperature • Engine Oil Temperature • Battery Voltage • Warning and Alarm Indication • Diagnostics • Maintenance Events / Information • Hourmeter		

CONTROL PANEL

Audible Alarm and Silence†	Auxiliary Shutdown Rocker Switch	Not in Auto Indication
AUTO / OFF / MANUAL: • Operation Through Onboard Buttons or Optional Key Switch • Indication Through Display Screen and LEDs		
* Optional; When Available.		** See NFPA 110 in Accessory Section.
*** Operation Disabled when Optional 10A Battery Charger is Installed.		† When Selected; See Modular NFPA 110 Components Section.

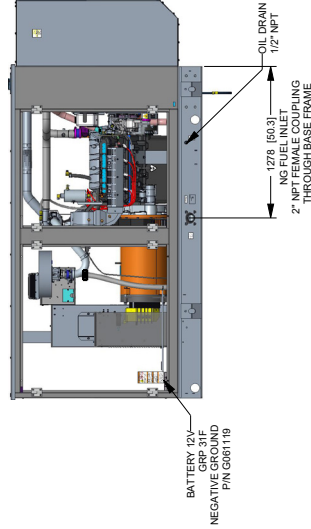
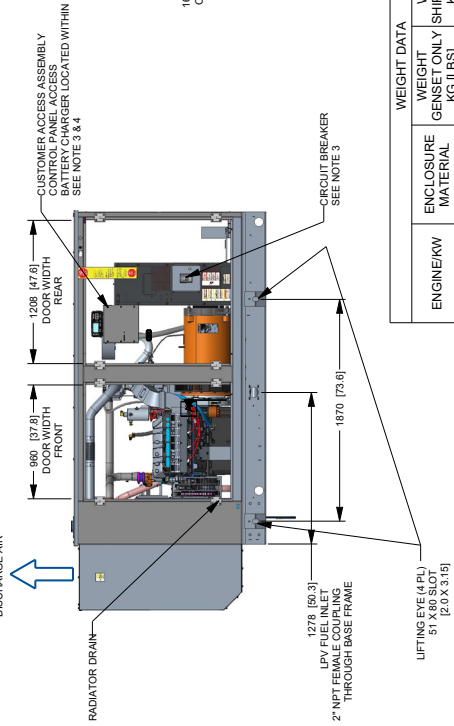
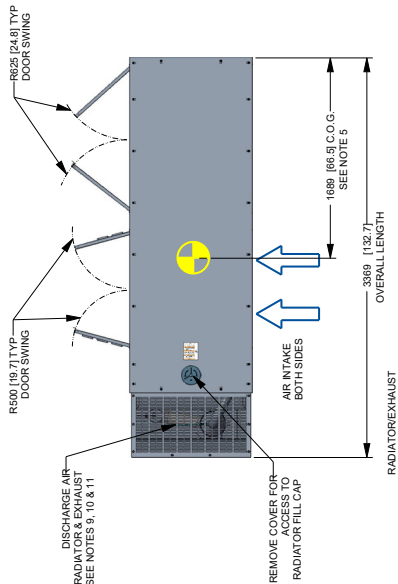
130 kW Installation Layout

Drawing A0001618959 (1 of 2)

- NOTES:**
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: (6" LARGER PER SIDE THAN FRAME)
 2. 1305 (52") WIDE 3'100 (122") LONG.
 3. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
 4. THE UNIT MUST BE INSTALLED ON A CONCRETE PAD WITH A MINIMUM THICKNESS OF 4" (100 MM) AND SERVICES TO THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 70 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
 5. CHANGING THE BREAKER INFORMATION:
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY ON LEFT SIDE OF GENERATOR.
 - REMOVE REAR COVER FOR ACCESS.
 - SWITCH CONTROL WIRES REMOVE REAR COVER FOR ACCESS.
 6. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND AIR FROM GENERATOR SET MUST BE ENCLOSED TO PREVENT COOLING AIR FLOW.
 7. REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 8. MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8"-11 GRADE 5 (USE S1 STANDARD SAE TORQUE SPECS)
 9. AIR DISCHARGE AIR AND EXHAUST SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS
 10. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.
 11. ACCESS EXHAUST MUFFLER, ACCESS AVAILABLE THROUGH DOORS TO FAN BELT.

SERVICE ITEM	9.0L
OIL FILL CAP	EITHER SIDE
OIL DIP STICK	RIGHT SIDE
OIL FILTER	LEFT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	LEFT SIDE
COOLANT RECOVERY BOTTLE	RIGHT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	EITHER SIDE
SPARK PLUGS	EITHER SIDE
MUFFLER	SEE NOTE 11
FAN BELT	EITHER SIDE
BATTERY	RIGHT SIDE

REFERENCE OWNERS MANUAL FOR REPLACEMENT PART LISTINGS.



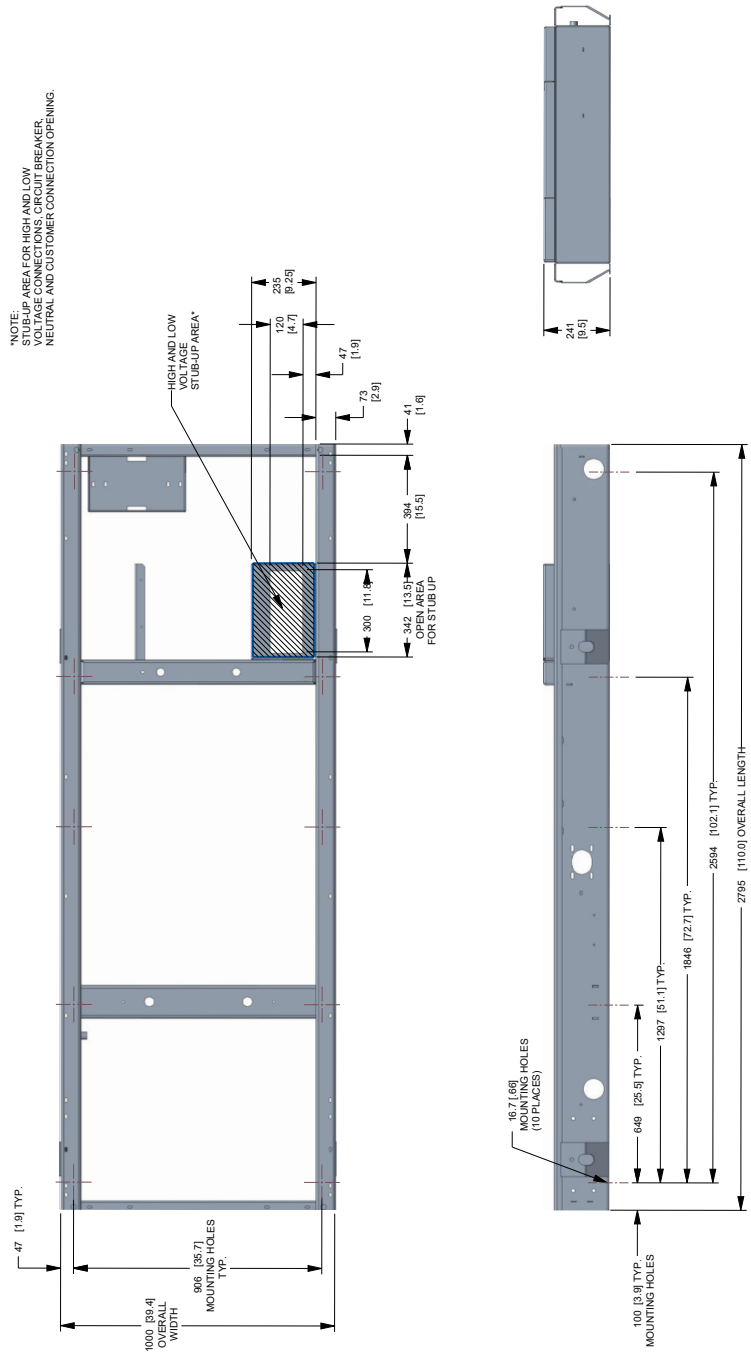
WEIGHT DATA			
ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT GENSET ONLY KG [LBS]	WEIGHT SHIPPING SKID KG [LBS]
9.0L/130KW	AL	1365 [3009]	80 [176]
			1445 [3185]

DIMENSIONS: MM [INCH]

130 kW Installation Layout

Drawing A0001618959 (2 of 2)

NOTE:
 THIS AREA FOR HIGH AND LOW
 VOLTAGE CONNECTIONS, CIRCUIT BREAKER,
 NEUTRAL AND CUSTOMER CONNECTION OPENING.



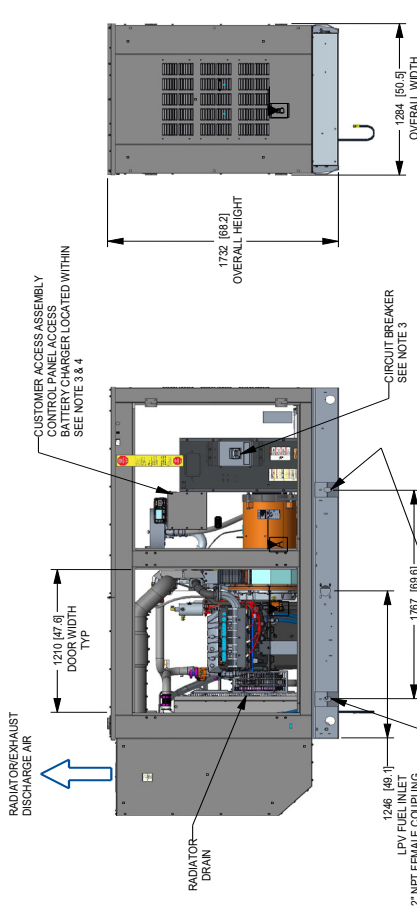
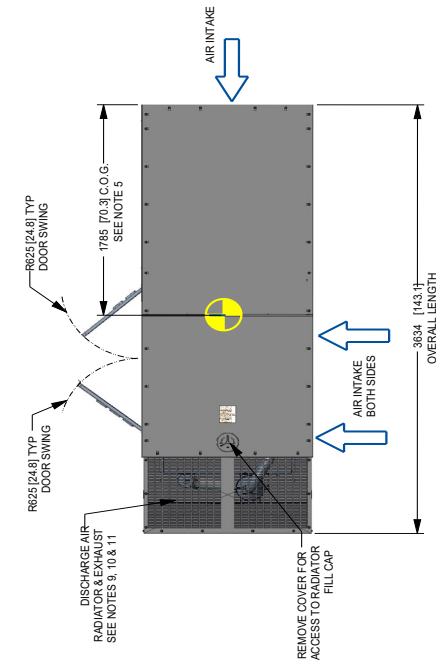
150 kW Installation Layout

Drawing A0001618957 (1 of 2)

- NOTES:**
- MINIMUM RECOMMENDED CONCRETE PAD SIZE: (6" LARGER PER SIDE THAN FRAME)
 - MINIMUM RECOMMENDED ROOM SIZE: (6" LARGER PER SIDE THAN FRAME)
 - REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
 - SEE SPECIFICATION SHEET OR OWNER'S MANUAL.
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY ON LEFT SIDE OF GENERATOR. BATTERY CHARGER 120 VOLT AC (5 AMP MAX) CONNECTION AND ACCESS TO TRANSFER SWITCH CONTROL WIRES. REMOVE REAR COVER FOR ACCESS.
 - SEE SPECIFICATION SHEET OR OWNER'S MANUAL.
 - BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
 - REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 - MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8"-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
 - SEE SPECIFICATION SHEET OR OWNER'S MANUAL FOR AIR DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
 - GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIA TOR IS NOT RECIRCULATED.
 - REMOVE FRONT END PANEL TO ACCESS EXHAUST MUFFLER. ACCESS AVAILABLE THROUGH DOORS TO PAN BELT.

SERVICE ITEM	9.0L
OIL FILL CAP	EITHER SIDE
OIL DIP STICK	RIGHT SIDE
OIL FILTER	LEFT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	LEFT SIDE
COOLANT RECOVERY BOTTLE	RIGHT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	EITHER SIDE
SPARK PLUGS	EITHER SIDE
MUFFLER	SEE NOTE 11
PAN BELT	EITHER SIDE
BATTERY	RIGHT SIDE

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS.

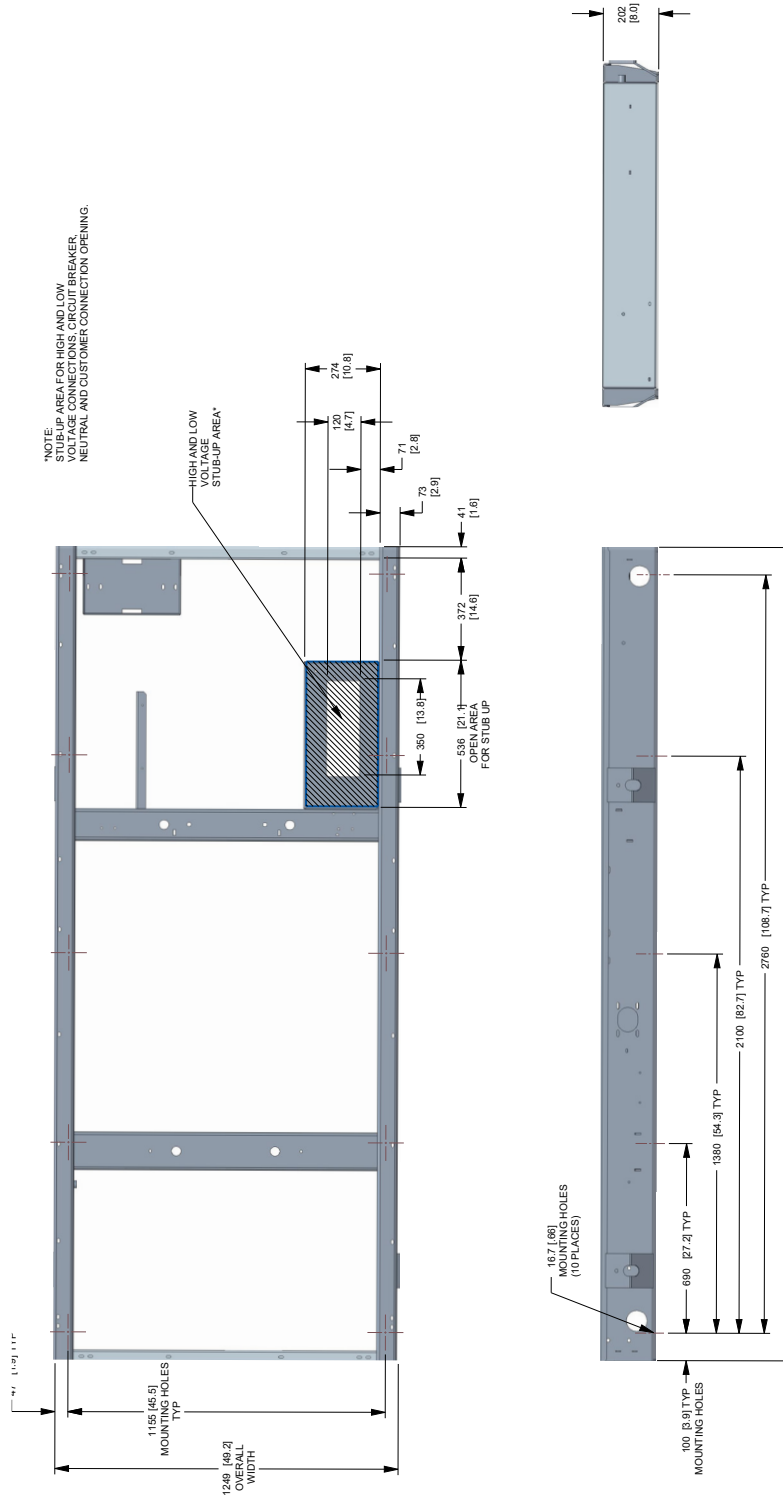


ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT DATA	
		WEIGHT GENSET ONLY KG [LBS]	WEIGHT SHIPPING SKID KG [LBS]
9.0L/150KW	AL	1487 [3278]	1618 [3560]

DIMENSIONS: MM [INCH]

150 kW Installation Layout

Drawing A0001618957 (2 of 2)



130 / 150 kW Available Accessories

MODEL #	PRODUCT	DESCRIPTION
G009883-0	Standard Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
G009884-0	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G0061600-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G009882-0	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac liquid-cooled generators.
G006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency. Mounted to exterior of generator.
G007005-0	Wi-Fi LP Fuel Level Monitor	The Wi-Fi enabled LP fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in making sure your generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify when your LP tank is in need of a refill.
G007000-0 (50 amp) G007006-0 (100 amp)	Smart Management Module	Smart Management Modules (SMM) are used to optimize the performance of a standby generator. They manage large electrical loads upon startup and shed them to aid in recovery when overloaded. In many cases, using SMM's can reduce the overall size and cost of the system.
G009885-0	400 A CB Kit	400 A Circuit Breaker Kit designed for three phase products built with a factory installed circuit breaker greater than 400 A.
A0000018981	Ultrasonic Cleaner Solution	An ultra-concentrated anti-corrosive cleaning solution engineered to reach the smallest cavities to clean the toughest contaminants. This water based formula is non-toxic, biodegradable, safe for both metal and plastic surfaces, and is superior in rinsability.
A0000019001	All Surface Protectant	All surface protectant for vinyl, rubber, plastics creates a barrier that seals & protects surfaces from water, UV rays while renewing the look of the surface.
G0074110	Kit, Phase Sense, 208-240 V, PZ410	3-Phase Sensing Wire Kit required for RTS Transfer Switch (208/120 & 240/120 V 3-Phase Output) when used with Power Zone® 410 Controller.
G0074120	Kit, Phase Sense, 480 V, PZ410	3-Phase Sensing Wire Kit required for RTS Transfer Switch (480/277 V 3-Phase Output) when used with Power Zone® 410 Controller.

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