

22/27/32/38 kW Liquid-Cooled Generator Sets

Standby Power Rating

HG022 (Aluminum – Dark Gray) – 22 kW 60 Hz

HG027 (Aluminum – Dark Gray) – 27 kW 60 Hz

HG032 (Aluminum – Dark Gray) – 32 kW 60 Hz

HG038 (Aluminum – Dark Gray) – 38 kW 60 Hz

INCLUDES

- **Innovative engine design and rigorous testing:** Total commitment to component testing, reliability testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards allows users to choose Honeywell generators with the confidence that these systems will provide superior performance.
- **PrecisionPower™ Electrical Technology:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic and microchip based appliances, such as variable speed HVAC.
- **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:** Our extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electrical component.
- **Honeywell Transfer Switches:** The Honeywell generator line is offered with its own transfer systems and controls for total system compatibility.
- **Mobile Link® Wi-Fi Connectivity:** Honeywell standby generators are Wi-Fi enabled. Now users can remotely connect and monitor generator status on a smartphone, tablet, or PC from anywhere in the world using Mobile Link's free service.
- **18 in (457 mm) Offset:** Listed and labeled by the Southwest Research Institute allowing installation as close as 18 in (457 mm) to a structure.
**Must be located away from doors, windows, and fresh air intakes and in accordance with local codes.



FEATURES & BENEFITS

- | | | | | |
|---|--|---|--|--|
| <ul style="list-style-type: none"> • PrecisionPower™ Electrical Technology • Two-line multilingual digital LCD controller (English, Spanish, French, Portuguese) • Isochronous electronic governor • UV/Ozone resistant hoses | <ul style="list-style-type: none"> • System and status & maintenance interval LED indicators • Closed coolant recovery system • Voltage regulation designed for sensitive electronics • Flexible fuel line connector | <ul style="list-style-type: none"> • Smart battery charger • Sound attenuated aluminum enclosure • UL 2200 Listed • Natural Gas or LP Gas operation | <ul style="list-style-type: none"> • 5 Year premium limited warranty • Capability to be installed within 18 in (457 mm) of a building* | <p>* Only if located away from doors, windows, and fresh air intakes, unless otherwise directed by local codes.</p> <p>Meets EPA Emission Regulations. 22 & 27 kW are CA/MA emissions compliant. 32 & 38 kW not for sale in CA/MA.</p> |
|---|--|---|--|--|

22 / 27 / 32 / 38 kW Technical Specifications

GENERATOR SPECIFICATIONS

Type	Synchronous
Rotor insulation class	H (22 & 27 kW) or F (32, & 38 kW)
Stator insulation class	H
Telephone Interference Factor (TIF)	<50
Alternator output leads 1-Phase	4 wire
Alternator output leads 3-Phase	6 wire
Bearings	Sealed ball
Coupling	Flexible disc
Excitation system	Direct

VOLTAGE REGULATION

Type	Electronic
Sensing	Single-phase
Regulation	Designed for sensitive electronics

GOVERNOR SPECIFICATIONS

Type	Electronic
Frequency regulation	Isochronous
Steady state regulation	Designed for sensitive electronics

ELECTRICAL SYSTEM

Battery charge alternator	12 volt 30 amp
Static battery charger	2.5 amp
Recommended battery	Group 26
System voltage (battery not included)	12 volts

GENERATOR FEATURES

Revolving field heavy duty generator
 Directly connected to the engine
 Operating temperature rise 248 °F (120 °C) above a 104 °F (40 °C) ambient
 Class H insulation is NEMA rated
 Class F insulation is NEMA rated
 All models fully prototype tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Provides 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.

ENGINE SPECIFICATIONS: 22, 27, 32 & 38 kW

Make	Generac
Model	In-line
Cylinders	4
Displacement (L)	2.4
Bore (in / mm)	3.41 / 86.5
Stroke (in / mm)	3.94 / 100
Compression ratio	9.5:1
Intake air system	Naturally aspirated (22 & 27 kW) or Turbocharged/aftercooled (32 & 38 kW)

Lifter type	Hydraulic
-------------	-----------

ENGINE LUBRICATION SYSTEM

Oil pump type	Gear
Oil filter type	Full flow spin-on cartridge
Crankcase capacity (qt / L)	4 / 3.8

ENGINE COOLING SYSTEM

Type	Closed
Water pump	Belt driven
Fan speed (rpm)	1,980 - 22 & 27 kW 1,500 - 32 & 38 kW

Fan diameter (in / cm)	18.1 / 45.97 (22 & 27 kW) or 22 / 55.88 (32 & 38 kW)
------------------------	---

Fan mode	Pusher (22 & 27 kW) or Puller (32 & 38 kW)
----------	---

FUEL SYSTEM

Fuel type	Natural gas, propane vapor
Carburetor	Down draft
Secondary fuel regulator	Standard
Fuel shut off solenoid	Standard
Operating fuel pressure	5-14 in water column / 1.24-3.48 kPa

22 / 27 / 32 / 38 kW Operating Data

GENERATOR OUTPUT VOLTAGE/KW – 60 HZ

		KW LPG	AMP LPG	KW NATURAL GAS	AMP NATURAL GAS	CB SIZE (BOTH)
HG022	120/240 V, 1Ø, 1.0 pf	22	92	22	92	100
	120/208 V, 3Ø, 0.8 pf	22	76	22	76	80
	120/240 V, 3Ø, 0.8 pf	22	66	22	66	80
HG027	120/240 V, 1Ø, 1.0 pf	27	113	25	104	125
	120/208 V, 3Ø, 0.8 pf	27	94	25	87	100
	120/240 V, 3Ø, 0.8 pf	27	81	25	75	90
HG032	120/240 V, 1Ø, 1.0 pf	32	133	32	133	150
	120/208 V, 3Ø, 0.8 pf	32	111	32	111	125
	120/240 V, 3Ø, 0.8 pf	32	96	32	96	100
	277/480 V, 3Ø, 0.8 pf	32	48	32	48	60
HG038	120/240 V, 1Ø, 1.0 pf	38	158	38	158	175
	120/208 V, 3Ø, 0.8 pf	38	132	38	132	150
	120/240 V, 3Ø, 0.8 pf	38	114	38	114	125
	277/480 V, 3Ø, 0.8 pf	38	57	38	57	60

SURGE CAPACITY IN AMPS

		Voltage Dip @ < 0.4 pf	
		15%	30%
HG022	120/240 V, 1Ø	55	135
	120/208 V, 3Ø	40	92
	120/240 V, 3Ø	35	80
HG027	120/240 V, 1Ø	62	170
	120/208 V, 3Ø	70	120
	120/240 V, 3Ø	61	103
HG032	120/240 V, 1Ø	75	180
	120/208 V, 3Ø	87	210
	120/240 V, 3Ø	75	182
	277/480 V, 3Ø	36	87
HG038	120/240 V, 1Ø	75	180
	120/208 V, 3Ø	87	210
	120/240 V, 3Ø	75	182
	277/480 V, 3Ø	36	87

ENGINE FUEL CONSUMPTION

		Natural Gas			Propane	
		(ft ³ /hr)	(m ³ /hr)	(gal/hr)	(L/hr)	(ft ³ /hr)
HG022	Exercise cycle	42	1.2	0.44	1.7	16
	25% of rated load	100	2.8	1.1	4.2	40
	50% of rated load	190	5.4	2.1	7.8	75
	75% of rated load	255	7.2	2.8	10.5	101
	100% of rated load	316	9	3.4	13	125
HG027	Exercise cycle	42	1.2	0.44	1.7	16
	25% of rated load	108	3.1	1.2	4.5	43
	50% of rated load	197	5.6	2.1	8.1	78
	75% of rated load	287	8.2	3.1	11.8	114
	100% of rated load	359	10.2	3.9	14.8	143
HG032	Exercise cycle	79	2.2	0.8	3.2	30
	25% of rated load	144	4.1	1.7	6.3	60
	50% of rated load	226	6.4	2.7	10.3	97
	75% of rated load	298	8.4	3.7	13.9	132
	100% of rated load	375	10.6	4.6	17.5	166
HG038	Exercise cycle	83	2.3	0.9	3.2	31
	25% of rated load	162	4.6	1.7	6.6	62
	50% of rated load	255	7.2	2.9	10.8	103
	75% of rated load	345	9.8	4	15	142
	100% of rated load	437	12.4	5.2	19	185

Note: Fuel pipe must be sized for full load.

For BTU content, multiply ft³/hr x 2,520 (LP) or ft³/hr x 1,000 (NG)

For megajoule content, multiply m³/hr x 93.15 (LP) or m³/hr x 37.26 (NG)

See "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.

22 / 27 / 32 / 38 kW Operating Data

ENGINE COOLING

MODEL	22 KW	27 KW	32 & 38 KW
Air flow (inlet air including alternator and combustion air in cfm / cmm)	2,400 / 68		2,200 / 62.3
System coolant capacity (gal / L)	2.5 / 9.5		
Heat rejection to coolant (BTU per hr / MJ per hr)	99,000 / 104.5	105,000 / 110.8	145,000 / 153
Maximum operation air temperature on radiator (°F / °C)	150 / 60		
Maximum ambient temperature (°F / °C)	140 / 50		

COMBUSTION REQUIREMENTS

Flow at rated power (cfm / cmm)	68 / 1.9	106 / 3
---------------------------------	----------	---------

SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	61	61	58
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	70	70	64

*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

Exhaust flow at rated output (cfm / cmm)	165 / 4.7	180 / 5.1	300 / 8.5
Exhaust temperature at muffler outlet (°F / °C)	900 / 482	1,000 / 538	1,075 / 579

ENGINE PARAMETERS

Rated synchronous rpm	1,800
-----------------------	-------

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature deration	1.65% for every 10 °F above 77 °F or 3% for every 10 °C above 25 °C
Altitude deration (22 & 27 kW).....	3% for every 1,000 ft above 600 ft or 1% for every 100 m above 183 m
Altitude deration (32 & 38 kW)	3% for every 1,000 ft above 3,000 ft or 1% for every 100 m above 915 m

CONTROLLER FEATURES

Two-line plain text LCD.....	Simple user interface for ease of operation.
Mode buttons: AUTO	Automatic Start on Utility failure. 7 day exerciser.
OFF.....	Stops unit. Power is removed. Control and charger still operate.
MANUAL	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable start delay between 2–1500 seconds	5 sec standard (programmable by dealer only)
Engine start sequence	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Engine warm-up	5 sec
Engine cool-down	1 min
Starter lock-out	Starter cannot re-engage until 5 sec after engine has stopped.
Smart battery charger	Standard
Automatic Voltage Regulation with Over and Under Voltage protection	Standard
Automatic Low Oil Pressure shutdown.....	Standard
Overspeed shutdown.....	Standard, 72 Hz
High Temperature shutdown.....	Standard
Overcrank protection.....	Standard
Safety fused.....	Standard
Failure to Transfer protection.....	Standard
Low Battery/Battery Problem protection and Battery Condition indication.....	Standard
50 Event Run log	Standard
Future Set Capable Exerciser.....	Standard
Incorrect Wiring protection.....	Standard
Internal Fault protection	Standard
Common external fault capability	Standard
Governor Failure protection.....	Standard
Field upgradeable firmware.....	Standard

22 / 27 / 32 / 38 kW Installation Layout

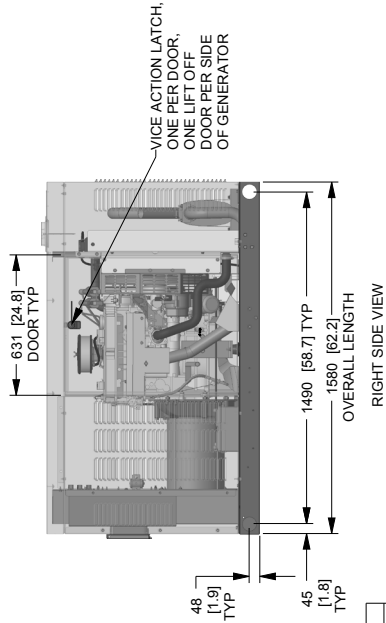
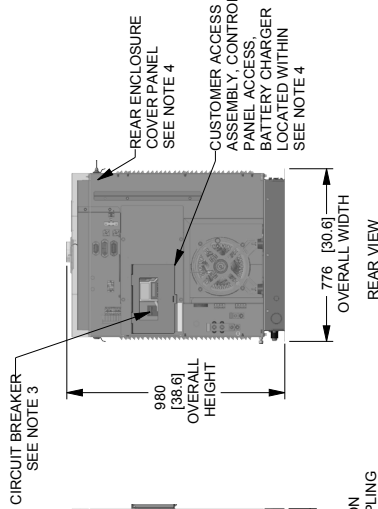
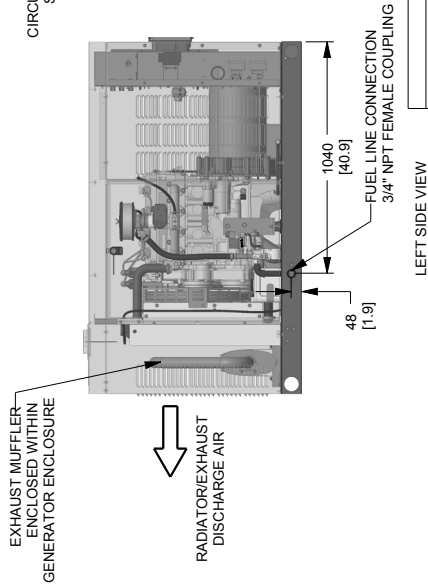
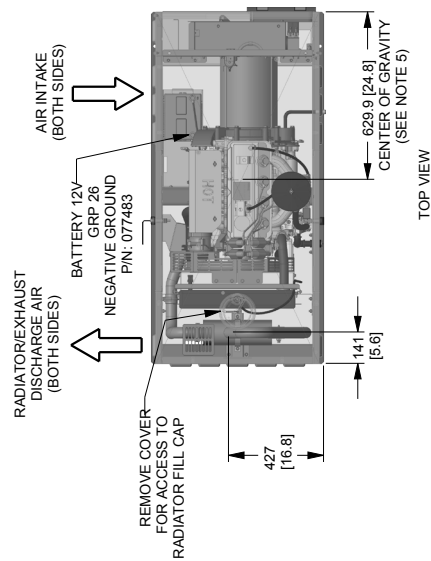
Drawing #0K8624-C (1 of 2) – For 22 & 27 kW

NOTES:

1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1092 (43") WIDE X 1885 (74.2") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE 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.
3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
- SEE SPECIFICATION SHEET FOR OWNERS MANUAL
- ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
4. REMOVE THE REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
- HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
- LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
6. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER 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 STANDARD SAE TORQUE SPECS)
9. MUST ALLOW FREE FLOW OF INTAKE 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. EXHAUST MUFFLER AND FAN BELT ENCLOSED WITHIN GENERATOR ENCLOSURE. REMOVE FRONT PANEL TO ACCESS.

SERVICE ITEM	2.4L
OIL FILL CAP	EITHER SIDE
OIL DIP STICK	RIGHT SIDE
OIL FILTER	RIGHT SIDE
OIL DRAIN HOSE	LEFT SIDE
RADIATOR DRAIN	LEFT SIDE
COOLANT RECOVERY BOTTLE	LEFT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	LEFT SIDE
SPARK PLUGS	SEE NOTE 11
MUFFLER	SEE NOTE 11
DRIVE BELT	EITHER SIDE
FAN BELT	SEE NOTE 11
BATTERY	LEFT SIDE

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS.

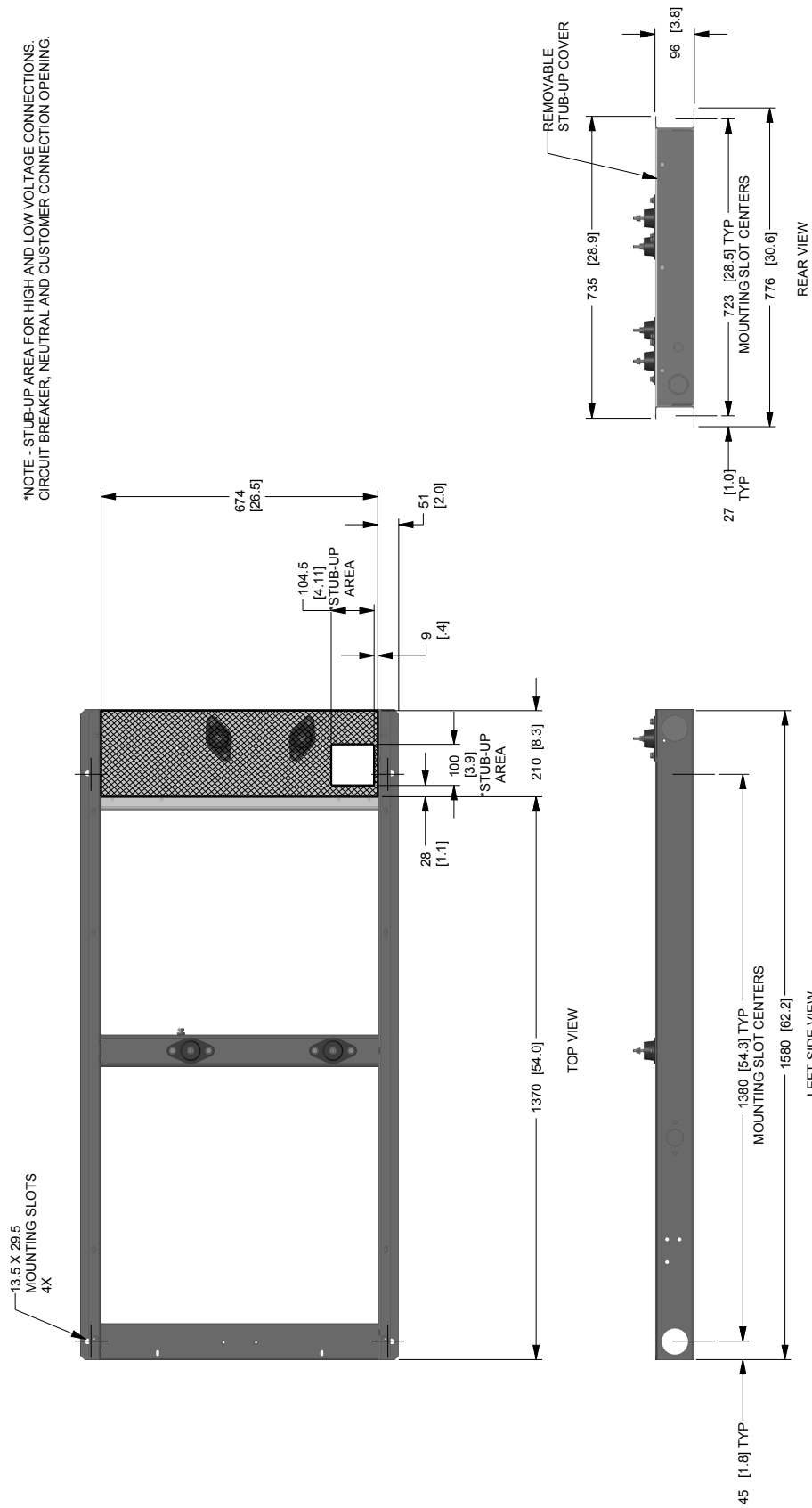


ENGINE/KW KVA	ENCLOSURE MATERIAL	WEIGHT DATA	
		WEIGHT GENSET ONLY KG [LBS]	WEIGHT SHIPPING SKID KG [LBS]
2.4L 22KW (60HZ) SINGLE PHASE 17.4KVA (60HZ) THREE PHASE 22KVA (60HZ)	AL	410.5 [905]	30 [66]
SINGLE PHASE 21.6KVA (60HZ) THREE PHASE 27KVA (60HZ)	AL	426 [940]	30 [66]

DIMENSIONS: MM [INCH]

22 / 27 / 32 / 38 kW Installation Layout

Drawing #0K8624-C (2 of 2) – For 22 & 27 kW



DIMENSIONS: MM [INCH]

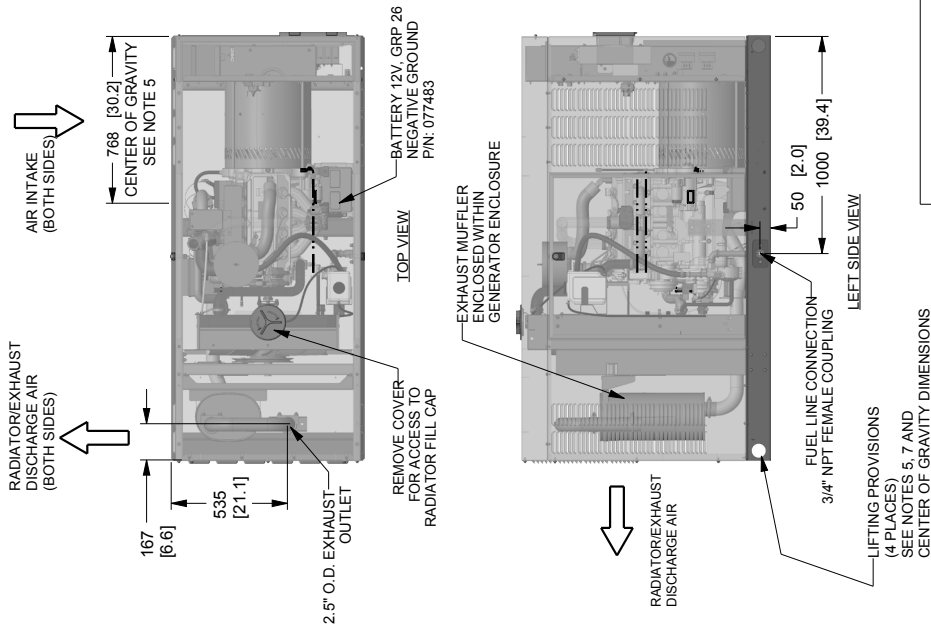
22 / 27 / 32 / 38 kW Installation Layout

Drawing #0K9268-B (1 of 2) – For 32 & 38 kW

- NOTES:**
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1194 (47") WIDE X 2255 (88.8") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
 2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE 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.
 3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
 - SEE SPECIFICATION SHEET OR OWNERS MANUAL
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
 4. REMOVE THE REAR ENCLOSURE COVER PANEL TO ACCESS:
 - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, AND BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
 - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
 5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
 6. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER 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 STANDARD SAE TORQUE SPECS)
 9. BEST PRACTICE FOR LOW VOLTAGE AIR INTAKE AND EXHAUST REQUIREMENTS: SEE SHEET 0K9268-B-10 FOR LOW VOLTAGE AIR INTAKE AND EXHAUST REQUIREMENTS
 10. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED
 11. EXHAUST MUFFLER AND FAN BELT ARE ENCLOSED WITHIN GENERATOR ENCLOSURE. REMOVE FRONT PANEL TO ACCESS.

SERVICE ITEM	2.4L
OIL FILL CAP	ETHER SIDE
OIL DIP STICK	RIGHT SIDE
OIL FILTER	RIGHT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	LEFT SIDE
COOLANT RECOVERY BOTTLE	LEFT SIDE
RADIATOR FILL CAP ACCESS	ROOF TOP
AIR CLEANER ELEMENT	RIGHT SIDE
SPARK PLUGS	SEE NOTE 11
MUFFLER	LEFT SIDE
DRIVE BELT	ETHER SIDE
FAN BELT	SEE NOTE 11
BATTERY	LEFT SIDE

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS.

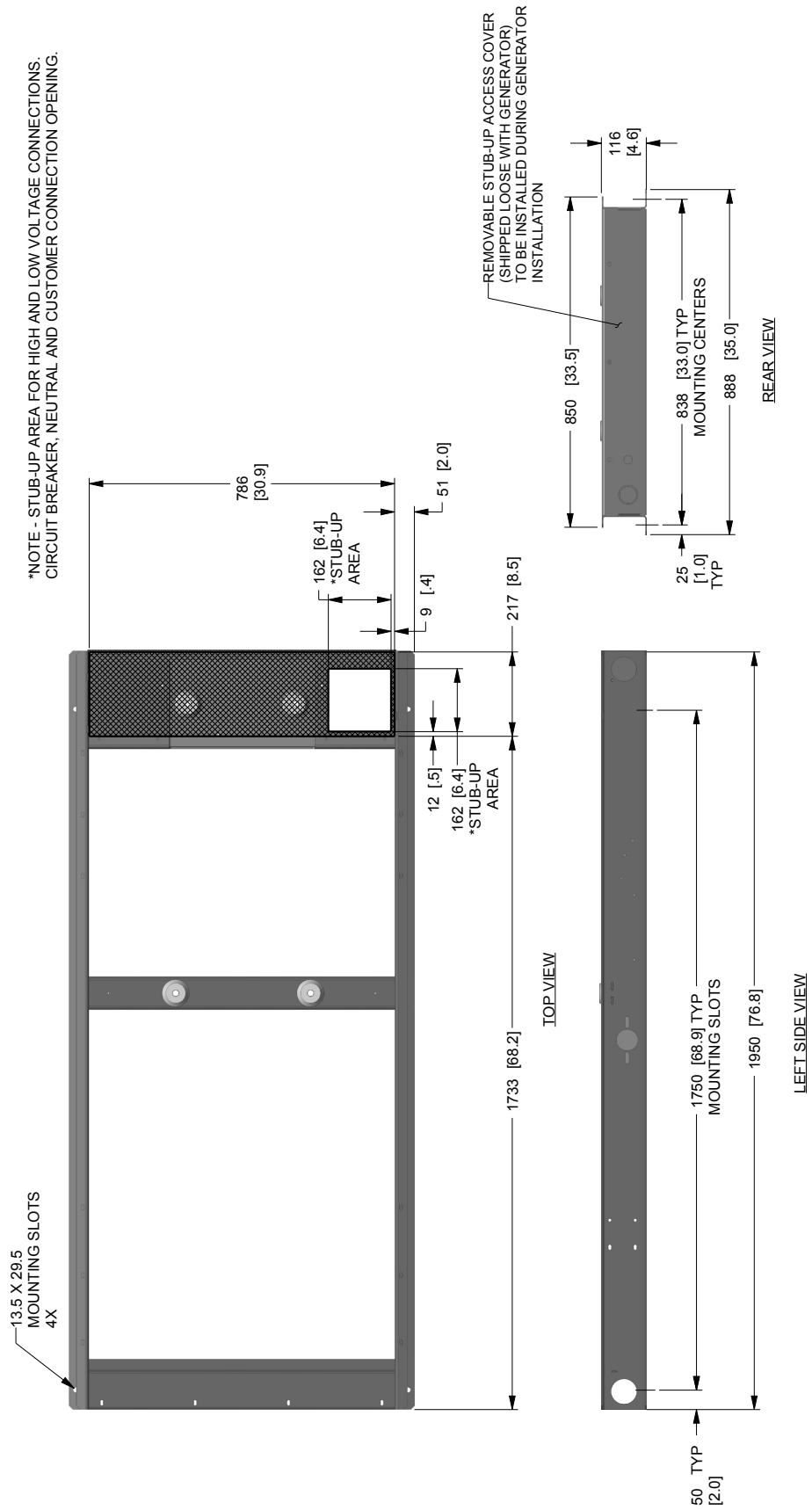


WEIGHT DATA			
ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT GENERALLY SHIPPED	WEIGHT SHIPPED
2.4L 32KW	AL	556 [122.9]	600 [132.3]
2.4L 38KW	AL	560 [123.5]	605 [133.3]
		44 [9.8]	44 [9.8]

DIMENSIONS: MM [INCH]

22 / 27 / 32 / 38 kW Installation Layout

Drawing #0K9268-B (2 of 2) – For 32 & 38 kW



22 / 27 / 32 / 38 kW Available Accessories

MODEL #	PRODUCT	DESCRIPTION
G005630-1	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. The cold weather kit consists of a battery warmer with thermostat built into the wrap.
G005616-0	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.
G007169-0	Mobile Link® 4G LTE Cellular Accessory	The Mobile Link 4G LTE Cellular Accessory allows users to monitor the status of the generator from anywhere in the world, using a smart phone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account with an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage. Requires use of Harness Adapter Kit.
G006478-0	Harness Adapter Kit	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link® 4G LTE Cellular Accessory.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G006160-0	Touch-Up Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The touch-up paint kit includes the necessary paint to correctly maintain or touch-up a generator enclosure.
G005656-0 - 22 & 27 kW G005984-0 - 32 & 38 kW	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kit provides all the items necessary to perform complete routine maintenance on Honeywell liquid-cooled generators (oil not included).
G006664-0	Local Wireless Monitor	Completely wireless and battery powered, this wireless remote monitor provides users with instant status information without ever leaving the house.
G006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
G007000-0 - 50 amps G007006-0 - 100 amps	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.
G006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
G007005-0	Wi-Fi LP Tank Fuel Level Monitor	The Wi-Fi enabled LP tank fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in verifying the generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify users when the LP tank is in need of a refill.

©2021 Generac Power Systems, Inc. All rights reserved.
Specifications subject to change without notice.

Generac Power Systems, Inc.

S45 W29290 Hwy 59
Waukesha, WI. 53189
1.855.GEN.INFO
www.honeywellgenerators.com

The Honeywell trademark is used under license from Honeywell International Inc.
Honeywell International Inc. makes no representation or warranties with respect to this product. This product is manufactured by Generac Power Systems, Inc., Waukesha, WI. 53189, USA.

0L0039HWL | Rev M | 04/21

Honeywell