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WINDCHILL VERSION

F.7

1

NOTES:

- CONTROL PANEL, (OPTIONAL BATTERY CHARGER INSIDE).
- 120V, 20A GFCI & 250V, 15A OUTLET (OPTIONAL).
- CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA).
- BATTERY (24 VOLT NEGATIVE GROUND SYSTEM).
- MAIN LINE CIRCUIT BREAKER (MLCB), AC LOAD LEADS. (DIMENSIONS MAY VARY DUE TO UNIT CONFIGURATION)
- CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.

7. ENGINE SERVICE CONNECTIONS:

INLET NATURAL GAS = 2" NPT FEMALE COUPLING (STAND OPT), 3" NPT FEMALE COUPLING (LOW FUEL PRESSURE OPT)
 INLET DIESEL = N/A
 RETURN DIESEL = N/A
 OIL DRAIN = 1/2" NPT FEMALE COUPLING
 RADIATOR DRAIN = 1/2" NPT FEMALE COUPLING
 FLEX PIPE OUTLET = 3.5" O.D.
 CATALYST INLET/OUTLET = 5" O.D.
 ELBOW INLET = 3.5" O.D.
 ELBOW OUTLET = 5" O.D.

***** SEE GENERATOR SIZING GUIDE FOR FUEL PIPE SIZING TO SUIT APPLICATION *****

- AUXILIARY AC CONNECTION FOR UNIT OPTIONS ARE LOCATED IN HIGH VOLTAGE CONNECTION BOX, UNLESS AN OPTIONAL LOAD CENTER IS INSTALLED.
- EXHAUST PIPES MAY BE ROTATED TO ALLOW MUFFLER TO POINT OUT TO THE RIGHT OR LEFT SIDE OF GENERATOR. (MAY NOT APPLY TO ALL UNITS)
- GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED.
- BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- IF USED, INSTALL EXHAUST BLANKETS (SUPPLIED BY OTHERS) ALONG THIS LINE. O2 SENSOR TO BE PLACED THIS DISTANCE FROM THE TURBO FLANGE. BLANKETS MUST HAVE MINIMUM CONTINUOUS OPERATING TEMPERATURE OF 1500°F [816°C]. EXHAUST SYSTEM MAXIMUM BACK PRESSURE = 10" H2O POST SILENCER.
- CONNECT THE OPEN SET EXHAUST PER NFPA 37
- BLANKETS SHOULD NOT COVER OXYGEN SENSOR.
- OXYGEN SENSOR MUST BE MOUNTED BETWEEN ENGINE OUTLET AND CATALYST INLET AS SHOWN. IF ELBOWS ARE REQUIRED, ONLY TWO ELBOWS MAY PER EXHAUST LINE MAY BE USED. OXYGEN SENSOR MUST BE LOCATED AT LEAST 508MM [20IN] DOWNSTREAM OF ANY ELBOW. PIPES WITH SMALLER DIAMETERS THAN THOSE OF THE PIPES PROVIDED MAY NOT BE USED.
- CATALYZED SILENCER (FOR EPA UNITS) MUST BE MOUNTED IN DESCRIBED POSITION. FAILING TO FOLLOW THESE INSTRUCTIONS WHEN INSTALLING A CERTIFIED ENGINE IN A PIECE OF STATIONARY EQUIPMENT VIOLATES FEDERAL LAW 40 CFR 1068.105(b), SUBJECT TO FINES OR PENALTIES AS DESCRIBED IN THE CLEAN AIR ACT.
- BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8 - 11 GRADE 5.

ADDITIONAL NOTES:

FOR WEIGHT AND CENTER OF GRAVITY DATA SEE NOTE 6, AND SHEET 4.

TABLE 1

DIM	OPEN SET, L1A, L2A ENCLOSED	L3A ENCLOSED
A	1363 [36.7]	731 [28.8]
B	1820 [71.7]	2815 [110.8]

Labels and Dimensions:

- EXHAUST OUTLET (2 PLACES) (NOTE 7)
- 1661 [65.4] FLEX PIPE (NOTE 7)
- ALT AIR OUT (BOTH SIDES)
- 1286 [50.6] FLEX PIPE
- 1818 [71.6] FLEX PIPE (NOTE 7)
- 125 [4.9] FLEX PIPE
- NOTE 4
- 3410 ± 305 [134.3 ± 12.0] CENTERLINE DISTANCE FROM TURBO FLANGE TO O2 SENSOR (NOTE 12,15)
- O2 SENSOR (NOTE 14, 15)
- ELBOW INCLUDED IN EXHAUST KIT (NOTE 7, 9)
- TURBO FLANGE
- LOW VOLTAGE CONNECTION BOX (NOTE 3)
- HIGH VOLTAGE CONNECTION BOX (NOTE 3)
- 1430 [56.3] CONNECTION BOX HEIGHT
- 866 [34.1] MLCB (NOTE 5)
- 667 [26.2] CUSTOMER HIGH VOLTAGE CONNECTION (NOTE 5)
- 632 [24.9] LOW VOLTAGE CONN. BOX
- OUTLET LOCATION (OPTIONAL, NOTE 2)
- OIL DRAIN (NOTE 7)
- RADIATOR DRAIN (NOTE 7)
- 1722 [67.8] OVERALL HEIGHT
- 1171 [46.1] AIR DUCT (NOTE 10)
- 1783 [70.2] EXHAUST HEIGHT
- 1375 [54.1] AIR DUCT (NOTE 10)
- 1679 [66.1] DIM Z C.O.G. NOTE 6 SHEET 4
- 308 [12.1] AIR DUCT (NOTE 10)
- 117 [4.6] DIM Y C.O.G. NOTE 6 SHEET 4
- 1783 [70.2] EXHAUST HEIGHT
- 2546 [100.2] FUEL INLET (NOTE 7)
- 117 [4.6] DIM X C.O.G. NOTE 6, SHEET 4
- Ø63.5 [2.50] 4X LIFTING EYE
- 117 [4.6] DIM A TABLE 1
- 117 [4.6] DIM B TABLE 1

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

208V & 240V STANDARD AND UPSIZED ALTERNATOR
400V, 480V & 600V UPSIZED ALTERNATOR

DIMENSIONS ARE IN MILLIMETERS [INCHES]

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL**GENERAC**

TITLE

OPEN SET G21.9L
60Hz:SG350,SG400,SG450,PG315,PG360,PG405
50Hz:SG280,SG320,SG360,PG252,PG288,PG324

ISSUE DATE: 11/14/18

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000037143	F
SCALE	1.000	WT-KG	0.000
SHEET	1 of 4		

INSTALLATION DRAWING

4

3

2

1

4

3

SH 2/4 REV F WINDCHILL VERSION F.7

1

RECOMENDED ELECTRICAL STUB-UP

(HIGH VOLTAGE STUB-UP)
AC LOAD LEAD CONDUIT FOR
PERMANENT MAGNET EXCITATION
CONNECTION BOX

(LOW VOLTAGE STUB-UP)

3725 [146.7] TYP

2980 [117.3] TYP

2235 [88.0] TYP

1490 [58.7] TYP

745 [29.3] TYP

99 [3.9] TYP

1630 [64.2]

1791 [70.5] OVERALL WIDTH

81 [3.2]

12X Ø16.7 [.66] MOUNTING HOLES (SEE NOTE 17)

LOW VOLTAGE STUB-UP AREA SURFACE MOUNTED (SEE NOTE 3)

215 [8.5]

420 [16.5]

1119 [44.0]

3923 [154.4] OVERALL LENGTH

460 [18.1] TYP

303 [11.9] TYP

306 [12.0] TYP

200 [7.9] TYP

575 [22.7] TYP

485 [19.1] TYP

705 [27.8] OPEN AREA FOR STUB-UP

95 [3.7]

123 [4.8] TYP

SECONDARY CB CONNECTION STUB-UP & BOX OPENING (OPTIONAL)

HIGH VOLTAGE STUB-UP AREA (OPTIONAL) W/GLAND PLATE

PRIMARY CB CONNECTION STUB-UP & BOX OPENING

HIGH VOLTAGE STUB-UP AREA W/GLAND PLATE

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

DIMENSIONS ARE IN MILLIMETERS [INCHES]

GENERAC

TITLE

L1A & L2A STUB UP VIEW G21.9L
60Hz:SG350,SG400,SG450,PG315,PG360,PG405
50Hz:SG280,SG320,SG360,PG252,PG288, PG324

ISSUE DATE: 11/14/18

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000037143	F

SCALE	WT-KG	SHEET
1.000	0.000	2 of 4

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

INSTALLATION DRAWING

4

3

2

1

4

3

SH

3/4

REV

F

WINDCHILL VERSION

F.7

1

RECOMENDED ELECTRICAL STUB-UP

(HIGH VOLTAGE STUB-UP)
AC LOAD LEAD CONDUIT FOR
PERMANENT MAGNUT EXCITATION
CONNECTION BOX

(LOW VOLTAGE STUB-UP)

3725 [146.7] TYP

2980 [117.3] TYP

2235 [88.0] TYP

1490 [58.7] TYP

745 [29.3] TYP

99 [3.9] TYP

325 [12.8] TYP

438 [17.2] TYP

SECONDARY CB CONNECTION
BOX OPENING (OPTIONAL)

492 [19.4] TYP

SECONDARY HIGH VOLTAGE
STUB-UP AREA (OPTIONAL)
W/GLAND PLATE

120 [4.7] TYP

575 [22.7]

PRIMARY CB CONNECTION
BOX OPENING

486 [19.1]

PRIMARY HIGH VOLTAGE
STUB-UP AREA
W/GLAND PLATE

198 [7.8]

1943 [76.5]
OVERALL WIDTH

1782 [70.2]

81 [3.2]

12X Ø16.66 [.7]
MOUNTING HOLES
(SEE NOTE 17)

LOW VOLTAGE STUB-UP
AREA SURFACE MOUNTED
(SEE NOTE 3)

215 [8.5]

705 [27.8]
OPEN AREA
FOR STUB-UP

95 [3.7]

420 [16.5]

1013 [39.9]

4228 [166.4]
OVERALL LENGTH

DRAWING CREATED FROM PRO/ENGINEER
3D FILE. ECO MODIFICATION TO BE
APPLIED TO SOLID MODEL ONLY.

DIMENSIONS ARE IN MILLIMETERS [INCHES]

TITLE

L3A STUB-UP VIEW G21.9L
60Hz:SG350,SG400,SG450,PG315,PG360,PG405
50Hz:SG280,SG320,SG360,PG252,PG288,PG324

ISSUE DATE:		11/14/18	
SIZE	CAGE NO	DWG NO	REV
B	N/A	10000037143	F
SCALE	1.000	WT-KG	0.000
SHEET		3 of 4	

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

INSTALLATION DRAWING

4

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1

OPEN SET

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG 350/400, PG 315/360/405 SG 280/320, PG 252/288	400V, 480V & 600V	3,312 kg [7,286 lbs]	1988 [78.3]	667 [26.3]	837 [33.0]
SG 350/400, PG 315/360/405 SG 450	208V & 240V 480V	3,757 kg [8,265 lbs]	1895 [74.6]	660 [26.0]	837 [33.0]
SG 450 SG 350/400	208V, 240V 208V, 240V, 480V UPSIZED	3,917 kg [8,617 lbs]	1861 [73.3]	657 [25.9]	837 [33.0]
SG 450 SG 350/400	600V 600V UPSIZE	3,753 kg [8,257 lbs]	1896 [74.6]	660 [26.0]	837 [33.0]
SG400/450 SG450	208V 240V	3,923 kg [8,650 lbs]	1860 [73.2]	657 [25.9]	843 [33.2]

NOTE:
CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.

STD ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG 350/400, PG 315/360/405 SG 280/320, PG 252/288	400V, 480V & 600V	4,305 kg [9,490 lbs]	2243 [88.3]	803 [31.6]	838 [33.0]
SG 350/400, PG 315/360/405 SG 450	208V & 240V 480V	4,561 kg [10,055 lbs]	2153 [84.8]	787 [31.0]	838 [33.0]
SG 450 SG 350/400	SG 350/400 208V, 240V, 480V UPSIZED	4,910 kg [10,802 lbs]	2117 [83.3]	780 [30.7]	838 [33.0]
SG 450 SG 350/400	600V 600V UPSIZE	4,746 kg [10,441 lbs]	2154 [84.8]	788 [31.0]	838 [33.0]
SG400/450 SG450	208V 240V	4,916 kg [10,840 lbs]	2116 [83.3]	781 [30.8]	843 [33.2]

STD ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
3,812 kg [8,404 lbs]	2160 [85.0]	746 [29.4]	837 [33.0]
4,257 kg [9,365 lbs]	2064 [81.3]	734 [28.9]	837 [33.0]
4,417 kg [9,717 lbs]	2028 [79.8]	728 [28.7]	837 [33.0]
4,253 kg [9,357 lbs]	2065 [81.3]	734 [28.9]	837 [33.0]
4,423 kg [9,753 lbs]	2027 [79.8]	729 [28.7]	843 [33.2]

L1A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG 350/400, PG 315/360/405 SG 280/320, PG 252/288	400V, 480V & 600V	4,762 kg [10,498 lbs]	2054 [80.9]	834 [32.8]	841 [33.1]
SG 350/400, PG 315/360/405 SG 450	208V & 240V 480V	5,207 kg [11,155 lbs]	1986 [78.2]	818 [32.2]	841 [33.1]
SG 450 SG 350/400	SG 350/400 208V, 240V, 480V UPSIZED	5,367 kg [11,807 lbs]	1960 [77.2]	811 [31.9]	841 [33.1]
SG 450 SG 350/400	600V 600V UPSIZE	5,203 kg [11,447 lbs]	1987 [78.2]	818 [32.2]	841 [33.1]
SG400/450 SG450	208V 240V	5,373 kg [11,847 lbs]	1958 [77.1]	811 [31.9]	845 [33.3]

L1A ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
4,008 kg [8,818 lbs]	2066 [81.3]	766 [30.2]	839 [33.0]
4,453 kg [9,797 lbs]	1983 [78.1]	752 [29.6]	839 [33.0]
4,613 kg [10,149 lbs]	1952 [76.9]	1952 [76.9]	839 [33.0]
4,449 kg [9,788 lbs]	1984 [78.1]	1984 [78.1]	839 [33.0]
4,619 kg [10,185 lbs]	1950 [76.8]	746 [29.4]	844 [33.2]

L2A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG 350/400, PG 315/360/405 SG 280/320, PG 252/288	400V, 480V & 600V	4,915 kg [10,836 lbs]	2271 [89.4]	1015 [40.0]	836 [32.9]
SG 350/400, PG 315/360/405 SG 450	208V & 240V 480V	5,360 kg [11,792 lbs]	2191 [86.3]	987 [38.9]	836 [32.9]
SG 450 SG 350/400	SG 350/400 208V, 240V, 480V UPSIZED	5,520 kg [12,144 lbs]	2159 [85.0]	975 [38.4]	836 [32.9]
SG 450 SG 350/400	600V 600V UPSIZE	5,356 kg [11,783 lbs]	2192 [86.3]	988 [38.9]	836 [32.9]
SG400/450 SG450	208V 240V	5,526 kg [12,185 lbs]	2157 [84.9]	976 [38.4]	841 [33.1]

L2A ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
4,074 kg [8,963 lbs]	2181 [85.9]	863 [34.0]	836 [32.9]
4,519 kg [9,942 lbs]	2090 [82.3]	842 [33.1]	836 [32.9]
4,679 kg [10,294 lbs]	2055 [80.9]	832 [32.8]	836 [32.9]
4,515 kg [9,933 lbs]	2091 [82.3]	842 [33.1]	836 [32.9]
4,685 kg [10,330 lbs]	2054 [80.9]	833 [32.8]	841 [33.1]

L3A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG 350/400, PG 315/360/405 SG 280/320, PG 252/288	400V, 480V & 600V	5,997 kg [13,224 lbs]	2409 [94.8]	995 [39.2]	1005 [39.6]
SG 350/400, PG 315/360/405 SG 450	208V & 240V 480V	6,312 kg [13,919 lbs]	2342 [92.2]	975 [38.4]	1003 [39.5]
SG 450 SG 350/400	SG 350/400 208V, 240V, 480V UPSIZED	6,472 kg [14,272 lbs]	2314 [91.1]	966 [38.0]	1003 [39.5]
SG 450 SG 350/400	600V 600V UPSIZE	6,308 kg [13,910 lbs]	2342 [92.2]	975 [38.4]	1004 [39.5]
SG400/450 SG450	208V 240V	6,478 kg [14,285 lbs]	2309 [90.9]	965 [38.0]	1003 [39.5]

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TITLE
WEIGHT AND CENTER OF GRAVITY
60Hz: SG350,SG400,SG450,PG3115,PG360,PG405
50Hz:SG280,SG320,SG360,PG252,PG288,PG324

ISSUE DATE:		11/14/18	
SIZE	CAGE NO	DWG NO	REV
B	N/A	10000037143	F
SCALE	1.000	WT-KG	0.000
SHEET		4 of 4	

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

INSTALLATION DRAWING