

Protector™ Series

Diesel Generator Set

1 of 18

INCLUDES:

- Two Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese) with external viewing window for easy indication of generator status and breaker position.
- Isochronous electronic governor
- Sound attenuated aluminum enclosure
- Smart battery charger
- UV / Ozone resistant hoses
- $\pm 1\%$ voltage regulation
- Integrated base tank options are available with run times over 90 hours without having to refuel*
- Five year limited warranty
- UL 2200 / UL142 / ULC S601 Listed
- Meets code requirements for external vent and fill

Standby Power Rating

Model RD015 - 15 kW 60 Hz
Model RD020 - 20 kW 60 Hz
Model RD030 - 30 kW 60 Hz
Model RD048 - 48 kW 60 Hz (single-phase only)
Model RD050 - 50 kW 60 Hz (three-phase only)



QUIET-TEST



*Assembled in the USA using domestic and foreign parts

Meets EPA Emission Regulations
CA/MA Emissions Compliant

* Time calculated at one-half maximum kW output.

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'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 GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
 - ✓ PROTOTYPE TESTED
 - ✓ NEMA MG1-22 EVALUATION
 - ✓ SYSTEM TORSIONAL TESTED
 - ✓ MOTOR STARTING ABILITY
- **TRUE POWER™ 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 equipment and micro-chip based appliances, such as variable speed HVAC systems.
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION:** This state-of-the-art power maximizing regulation system is standard on all Generac 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. Digital voltage regulation at $\pm 1\%$.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES:** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

15 • 20 • 30 • 48 • 50 kW**Application and Engineering Data****GENERATOR SPECIFICATIONS**

Type	Synchronous
Rotor Insulation Class	H (15 & 20 kW) or F (30, 48, & 50 kW)
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	Three wire
Alternator Output Leads 3-Phase	Six wire
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Excitation System	Direct
Total Harmonic Distortion	< 5%

VOLTAGE REGULATION

Type	Electronic
Sensing	Single-phase
Regulation	± 1%
Features	Adjustable voltage & gain

GOVERNOR SPECIFICATIONS

Type	Electronic isochronous
Steady State Regulation	± 0.25%

ELECTRICAL SYSTEM

Battery Charge Alternator	50 amp (15 & 20 kW), 65 amp (30 kW), and 50 amp (48 & 50 kW)
Static Battery Charger	2 amp
Recommended Battery (battery not included)	Group 27F, 700 CCA Group 31, 925 CCA batteries can also be used with 30kW units
System Voltage	12 volts

ALTERNATOR SPECIFICATIONS

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 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 and maximize sound dampening.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

15 • 20 • 30 • 48 • 50 kW

Application and Engineering Data

ENGINE SPECIFICATIONS: 15 & 20 kW

Make	Mitsubishi
Model	In-line
Cylinders	4
Displacement (Liters)	2.5
Bore (in / mm)	3.46 / 88
Stroke (in / mm)	4.06 / 103
Compression Ratio	22:1
Intake Air System	Naturally aspirated
Cylinder Head Type	Cast iron OHV
Piston Type	Aluminum

ENGINE SPECIFICATIONS: 30 kW

Make	Perkins
Model	In-line
Cylinders	4
Displacement (Liters)	2.2
Bore (in / mm)	3.30 / 84
Stroke (in / mm)	3.94 / 100
Compression Ratio	23.3:1
Intake Air System	Turbocharged / aftercooled
Cylinder Head Type	Cast iron OHV
Piston Type	Aluminum

ENGINE SPECIFICATIONS: 48 & 50 kW

Make	Mitsubishi
Model	In-line
Cylinders	4
Displacement (Liters)	3.3
Bore (in / mm)	3.70 / 94
Stroke (in / mm)	4.72 / 120
Compression Ratio	19:1
Intake Air System	Turbocharged / Aftercooled
Cylinder Head Type	Cast iron OHV
Piston Type	Aluminum

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on canister
Crankcase Capacity (quarts / Liters)	6.87 / 6.5—15 & 20 kW 11.2 / 10.6 —30 kW 11.6 / 11—48 & 50 kW

ENGINE COOLING SYSTEM

Water Pump	Pre-lubed, self-sealing
Fan Speed (rpm)	2376—15 & 20 kW 1980—30 kW 2340—48 & 50 kW
Fan Diameter (in / mm)	18.11 / 460 (15 & 20 kW) 18 / 457.2 (30 kW) 17 / 431.8 (48 & 50 kW)
Fan Mode	Pusher

FUEL SYSTEM

Fuel Type	Ultra low sulfur diesel fuel
Fuel Pump Type	Mechanical engine driven gear
Injector Type	Mechanical
Fuel Supply Line (mm / in)	7.94 / 0.31 (ID)
Fuel Return Line (mm / in)	N/A—15 & 20 kW 4.76 / 0.19 (ID)—30 kW 7.94 / 0.31 (ID)—48 & 50 kW
Fuel Specification	ASTM
Fuel Filtering (microns)	6—15 & 20 kW 25—30 kW 6—48 & 50 kW

WEIGHTS AND DIMENSIONS

kW size	Tank size	Weight (lb / kg)	Dimensions (L x W x H) (in / cm)
15 kW	32 Gal	1528 / 693	81 x 31 x 51 / 206 x 79 x 129
	95 Gal	1757 / 797	81 x 31 x 61 / 206 x 79 x 165
20 kW	32 Gal	1528 / 693	81 x 31 x 51 / 206 x 79 x 129
	95 Gal	1757 / 797	81 x 31 x 61 / 206 x 79 x 165
30 kW	57 Gal	1857 / 842	95 x 35 x 59 / 241 x 89 x 150
	132 Gal	2070 / 939	95 x 35 x 68 / 241 x 89 x 173
48 & 50 kW	57 Gal	2215 / 1102	95 x 35 x 57 / 241 x 89 x 145
	132 Gal	2429 / 1102	95 x 35 x 66 / 241 x 89 x 168

15 • 20 • 30 • 48 • 50 kW

Application and Engineering Data

TANK SPECIFICATIONS

kW size		Total Capacity		Usable Capacity		Run Time at 1/2 Load (hrs)
kW size	15 kW	32 Gal Tank (gal / L)	33.5 / 127	32 / 121		39
		95 Gal Tank (gal / L)	98.5 / 372.9	95 / 359.6		115.8
	20 kW	32 Gal Tank (gal / L)	33.5 / 127	32 / 121		31
		95 Gal Tank (gal / L)	98.5 / 372.9	95 / 359.6		92.2
	30 kW	57 Gal Tank (gal / L)	61 / 233	57 / 215		41.6
		132 Gal Tank (gal / L)	138.5 / 524	132 / 500		96.4
	48 & 50 kW	57 Gal Tank (gal / L)	62 / 234.7	57 / 215		28.2
		132 Gal Tank (gal / L)	138.5 / 524	132 / 500		65.3

GENERATOR OUTPUT VOLTAGE / KW-60 HZ

		kW (standby)	Amp (standby)	kW (Prime)	Amp (Prime)	CB Size
RD015	120/240 V, 1Ø, 1.0 pf	15	62	12	50	70
	120/208 V, 3Ø, 0.8 pf	15	52	12	42	60
	120/240 V, 3Ø, 0.8 pf	15	45	12	36	50
RD020	120/240 V, 1Ø, 1.0 pf	20	83	16	67	100
	120/208 V, 3Ø, 0.8 pf	20	69	16	56	80
	120/240 V, 3Ø, 0.8 pf	20	60	16	48	70
RD030	120/240 V, 1Ø, 1.0 pf	30	125	24	100	150
	120/208 V, 3Ø, 0.8 pf	30	104	24	83	125
	120/240 V, 3Ø, 0.8 pf	30	90	24	72	100
	277/480 V, 3Ø, 0.8 pf	30	45	24	36	50
RD048 RD050	120/240 V, 1Ø, 1.0 pf	48	200	38.4	183	200
	120/208 V, 3Ø, 0.8 pf	50	173	40	153	200
	120/240 V, 3Ø, 0.8 pf	50	150	40	132	175
	277/480 V, 3Ø, 0.8 pf	50	75	40	66	90

SURGE CAPACITY IN AMPS

		Voltage Dip @ < 0.4 pf	
		15%	30%
RD015	120/240 V, 1Ø	53	129
	120/208 V, 3Ø	37	90
	120/240 V, 3Ø	32	78
RD020	120/240 V, 1Ø	87	211
	120/208 V, 3Ø	59	143
	120/240 V, 3Ø	51	124
RD030	120/240 V, 1Ø	66	168
	120/208 V, 3Ø	59	144
	120/240 V, 3Ø	51	125
	277/480 V, 3Ø	26	64
RD048 RD050	120/240 V, 1Ø	69	189
	120/208 V, 3Ø	90	218
	120/240 V, 3Ø	78	189
	277/480 V, 3Ø	36	87

ENGINE FUEL CONSUMPTION

		gal / hr	L / hr
RD015	25% of rated load	0.60	2.27
	50% of rated load	0.85	3.22
	75% of rated load	1.10	4.16
	100% of rated load	1.46	5.53
RD020	25% of rated load	0.77	2.9
	50% of rated load	1.03	3.90
	75% of rated load	1.46	5.53
	100% of rated load	1.97	7.46
RD030	25% of rated load	0.97	3.67
	50% of rated load	1.37	5.19
	75% of rated load	1.97	7.46
	100% of rated load	2.77	10.49
RD048 RD050	25% of rated load	1.23	4.66
	50% of rated load	2.02	7.66
	75% of rated load	3.02	11.43
	100% of rated load	4.02	15.22

15 • 20 • 30 • 48 • 50 kW

ENGINE COOLING

	15 kW	20 kW	30 kW	48 kW & 50 kW
Air flow (inlet air including alternator and combustion air in cfm / cmm)	2750 / 78	2750 / 78	2800 / 79	2824 / 80
System coolant capacity (gal / Liters)	3.0 / 11.4	3.0 / 11.4	2.5 / 9.5	3.0 / 11.4
Heat rejection to coolant (BTU per hr / MJ per hr)	95,220 / 100.5	95,220 / 100.5	128,638 / 135.7	135,900 / 143.4
Maximum operation air temperature on radiator (°C / °F)	50 / 122			
Maximum ambient temperature (°C / °F)	50 / 122			

COMBUSTION REQUIREMENTS

Flow at rated power (cfm / cmm)	86.3 / 2.4	86.3 / 2.4	88 / 2.5	190 / 5.38
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SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	65			
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	70			

EXHAUST

Exhaust flow at rated output (cfm / cmm)	98.88 / 2.8	98.88 / 2.8	296.6 / 8.4	448 / 12.7
Exhaust temperature at rated output (°C / °F)	482 / 900	482 / 900	499 / 930	499 / 930

ENGINE PARAMETERS

Rated Synchronous Rpm	1800			
HP at rated kW	26.4	33.5	49	85

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

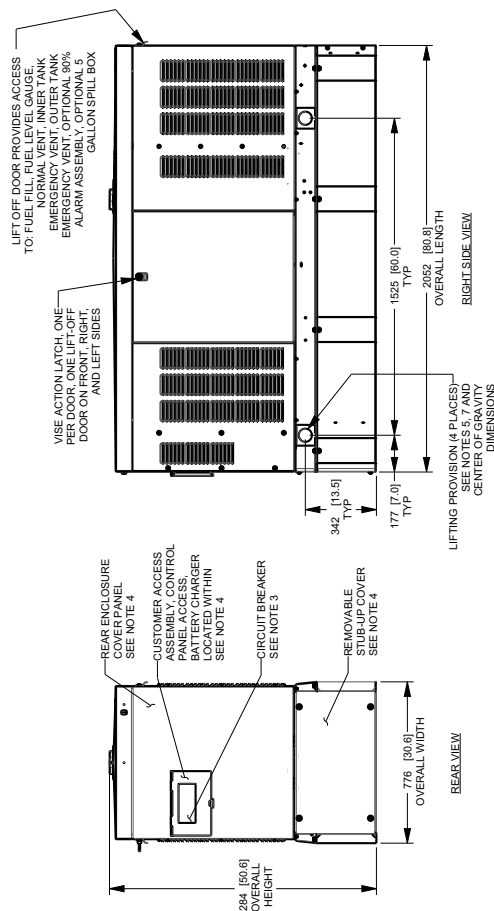
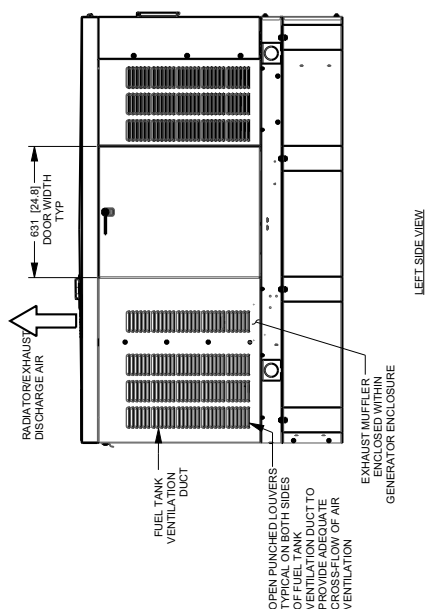
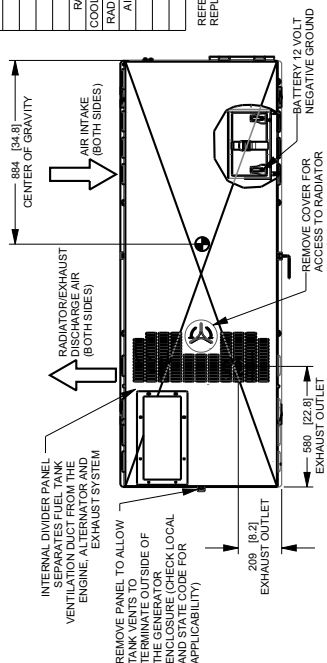
Temperature Deration	3% for every 5 °C above 25 °C or 1.7% for every 5 °F above 77 °F
Altitude Deration (15, 30, 48, and 50 kW)	1% for every 100 m above 915 m or 3% for every 1,000 ft above 3,000 ft
Altitude Deration (20 kW)	1% for every 100 m above 305 m or 3% for every 1,000 ft above 1,000 ft

CONTROLLER FEATURES

2-Line Plain Text Multilingual LCD Display	Simple user interface for ease of operation
Mode Buttons: Auto	Automatic Start on Utility failure. Programmable 7 day exerciser
Manual	Start with starter control, unit stays on. If utility fails, transfer to load takes place
Off	Stops unit. Power is removed. Control and charger still operate
Ready to Run/Maintenance Message	Standard
Engine Run Hours Indication	Standard
Programmable start delay between 2-1500 seconds	Standard (programmable by dealer only)
Utility Voltage Loss/Return to Utility Adjustable	From 140-171 V/190-216 V
Future Set Capable Exerciser/Exercise Set Error Warning	Standard
Run/Alarm/Maintenance Logs	50 Events Each
Engine Start Sequence	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Starter Lock-out	Starter cannot re-engage until 5 seconds after engine has stopped
Smart Battery Charger	Standard
Charger Fault/Missing AC Warning	Standard
Low Battery/Battery Problem Protection and Battery Condition Indication	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Under-Frequency/Overload/Stepper Overcurrent Protection	Standard
Safety Fused/Fuse Problem Protection	Standard
Automatic Low Oil Pressure	Standard
Overcrank/Overspeed (@ 72 Hz)/rpm Sense Loss Shutdown	Standard
High Engine Temperature Shutdown	Standard
Internal Fault/Incorrect Wiring Protection	Standard
Common External Fault Capability	Standard
Field Upgradeable Firmware	Standard
Low Coolant Level Shutdown	Standard

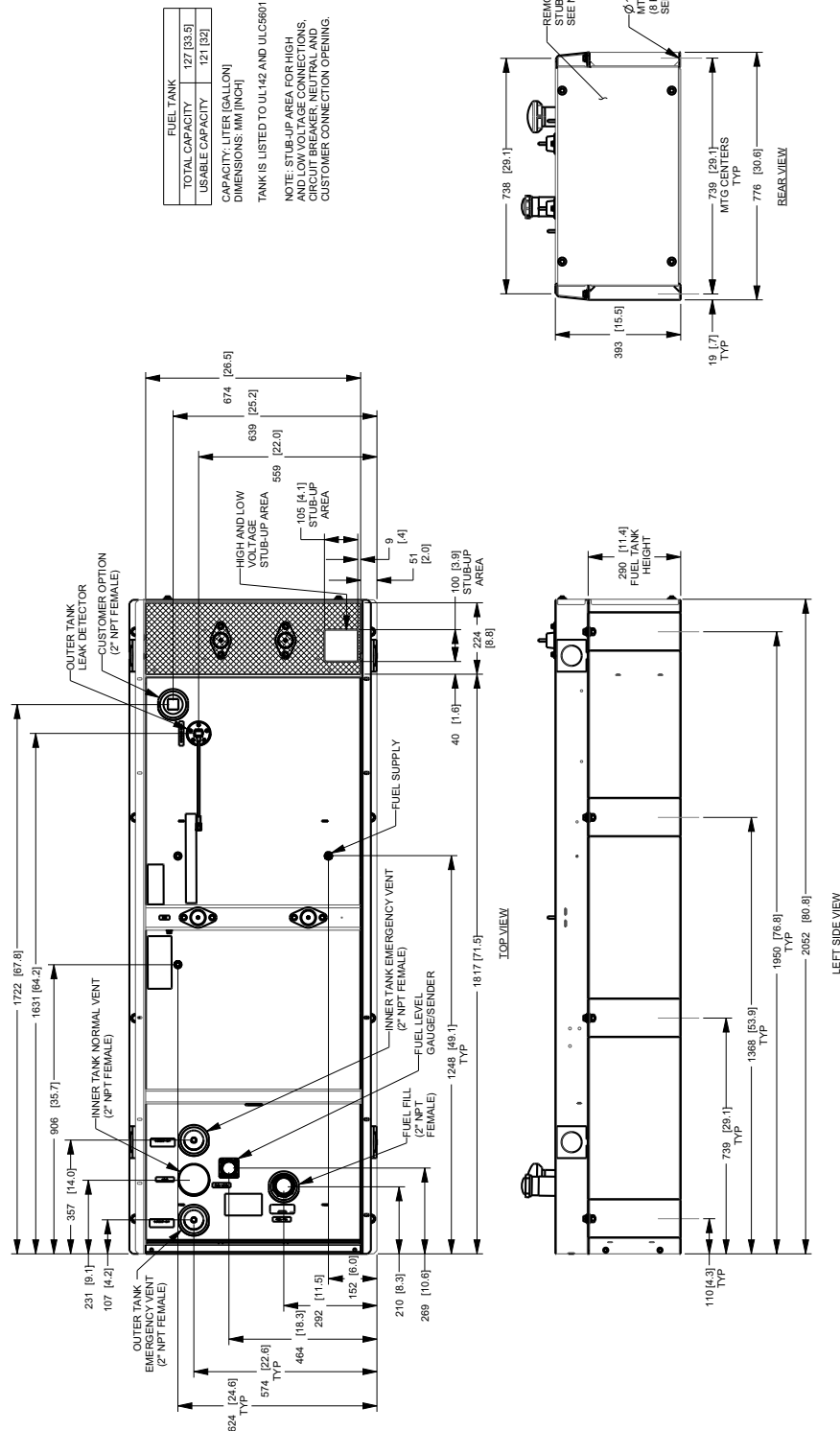
D2.5L G2 32 Gal Tank (1 of 2)

ITEM	2.5L	WEIGHT DATA WITH EMPTY BASE/TANK (SEE NOTE 5)	NOTES:
OIL FILL CAP	RIGHT SIDE	GENERATOR TOR AS SHOWN 683 [1502]	1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1092 (43") WIDE X 1887 (74.3") LONG.
OIL FILL STICK	RIGHT SIDE	WITH WOODEN SHIPPING SKID 731.6 [1600]	2. ALL DIMENSIONS ARE TO THE CENTER OF THE UNIT. SEE DIMENSION LINES.
OIL FILTER	RIGHT SIDE	WEIGHT: KG [LBS]	3. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 333 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, OR LOCAL REQUIREMENTS.
OIL DRAIN HOSE	LEFT SIDE	DIMENSIONS: MM [INCH]	4. THE UNIT MUST BE INSTALLED ON A LEVEL SURFACE.
RADIATOR DRAIN HOSE	LEFT SIDE		5. CONTROL PANEL / CIRCUIT BREAKER INFORMATION: - SEE SPECIFICATION SHEET OR OWNERS MANUAL - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
COOLANT RECOVERY BOTTLE	LEFT SIDE		6. ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
RADIATOR FILL CAP ACCESS	ROOF		7. THE STUB-UP AREAS AS FOLLOWS: 1. HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION. 2. NEUTRAL CONNECTION, AND BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION. 3. AIR CLEANER ELEMENT CONNECTION. 4. AIR CLEANER SWITCH CONNECTION, WIRES AND ACCESSORY RELAY CONNECTION (QTY 4).
AIR CLEANER ELEMENT	FRONT		5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
MUFFLER	FRONT		
FANBELT	LEFTER SIDE		
BATTERY	RIGHT SIDE		



15 • 20 • 30 • 48 • 50 kW

D2.5L G2 32 Gal Tank (2 of 2)



D2.5L G2 95 Gal Tank (1 of 2)

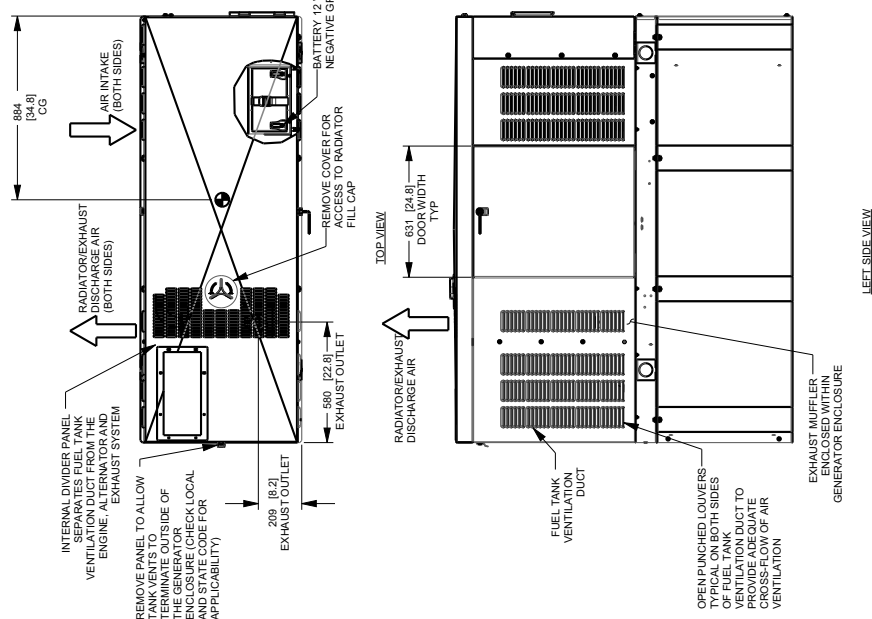
NOTES:

MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1029 (40") WIDE X 1897 (74 3/4") LONG.
REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE
AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT
APPLICABLE NFPA 314 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL,
STATE, AND LOCAL CODES.
SEE SPECIFICATION SHEET FOR BREAKER INFORMATION.
SEE SPECIFICATION SHEET FOR OWNER'S MANUAL.
ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
THE STUD-UP REAR STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS
THE SUB-UP AREAS AS FOLLOWS:
- HIGH VOLTAGE CONNECTION INCLUDING COLD LEAD CONDUIT CONNECTION
- TRANSFER SWITCH INCLUDING TRANSFER CHARGER UNIT (QTY 4) AND STUB-UP CONNECTION
- LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONNECTION Wires
- AND ACCESSORY RELAY CONNECTION (QTY 4)
- CENTER OF GRAVITY AND WEIGHT MAY VARY DUE TO UNIT OPTIONS.
BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND
DAMAGE TO EQUIPMENT. SEE OWNER'S MANUAL FOR LIFTING WARNINGS.
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)

STATE, AND LOCAL CODES.
3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:

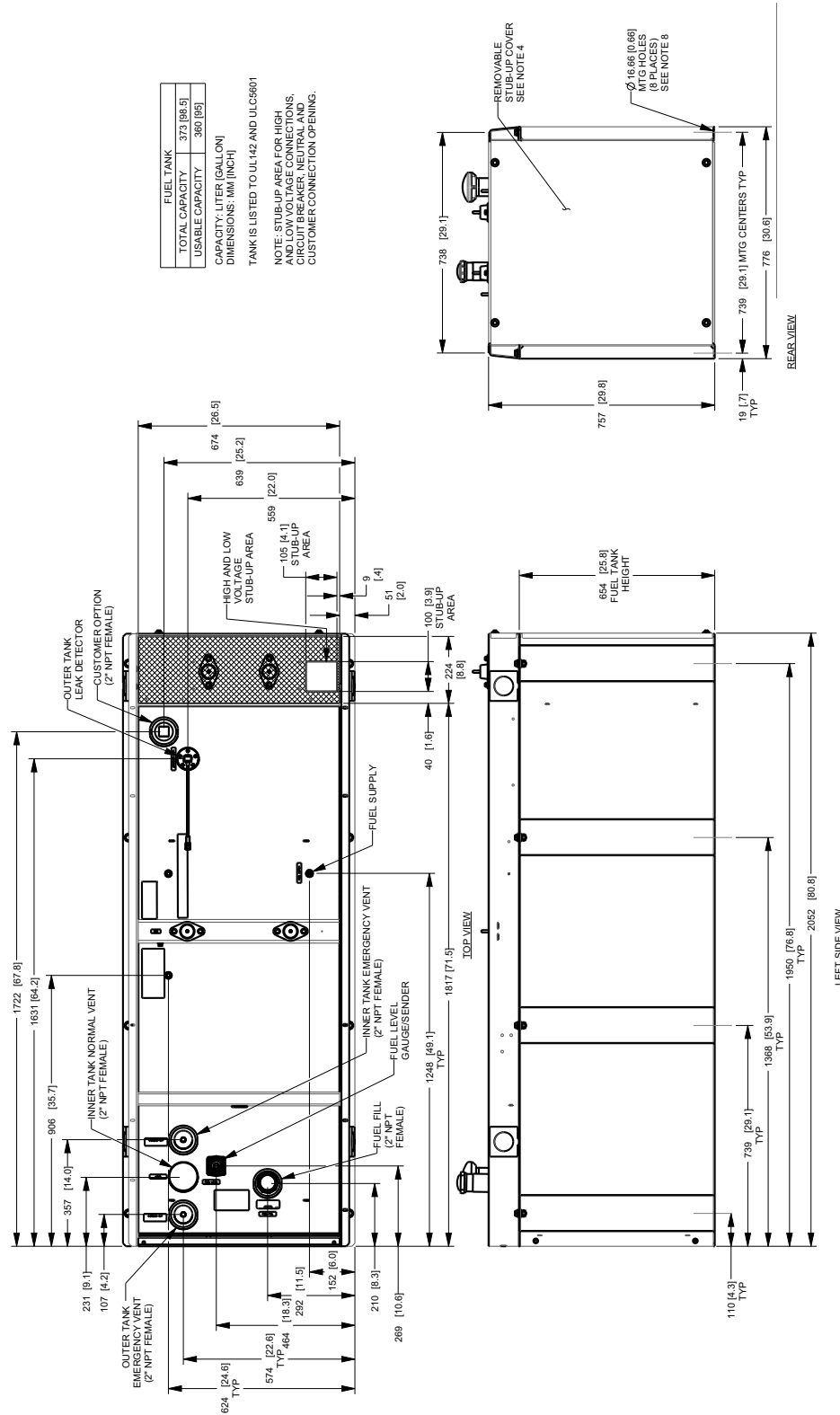
SEE SPECIFICATION SHEET OR OWNERS MANUAL.
ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY, DOOR ON REAR OF GENERATOR.
GENERATOR ENCLOSURE BACK PANEL ACCESS.
THE SUB-UP AREAS AS FOLLOWS:
HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION.
LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES
AND ACCESSORY RELAY CONNECTION (QTY 4).
THE BOTTOM OF GENERATOR SET MUST BE CONNECTED TO PREVENT FIRE INTRUSION AND
RECIRCULATION OF DISCHARGE AIR AND/OR IMPROVED COOLING AIR FLOW.
REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
USE STANDARD 5/8" DIA. BOLT INTO LIFTING SURFACE SHALL BE 5/8"-11 GRADE 5
(USE STANDARD SAE TORQUE SPECS).

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS.



15 • 20 • 30 • 48 • 50 kW

D2.5L G2 95 Gal Tank (2 of 2)



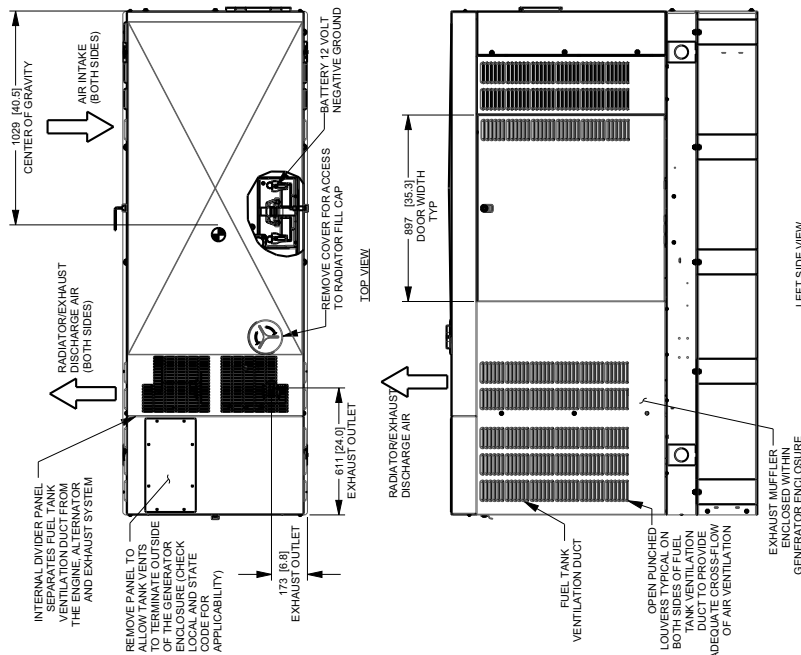
D2.2L G22 57 Gal Tank (1 of 2)

NOTES:

NOTES:

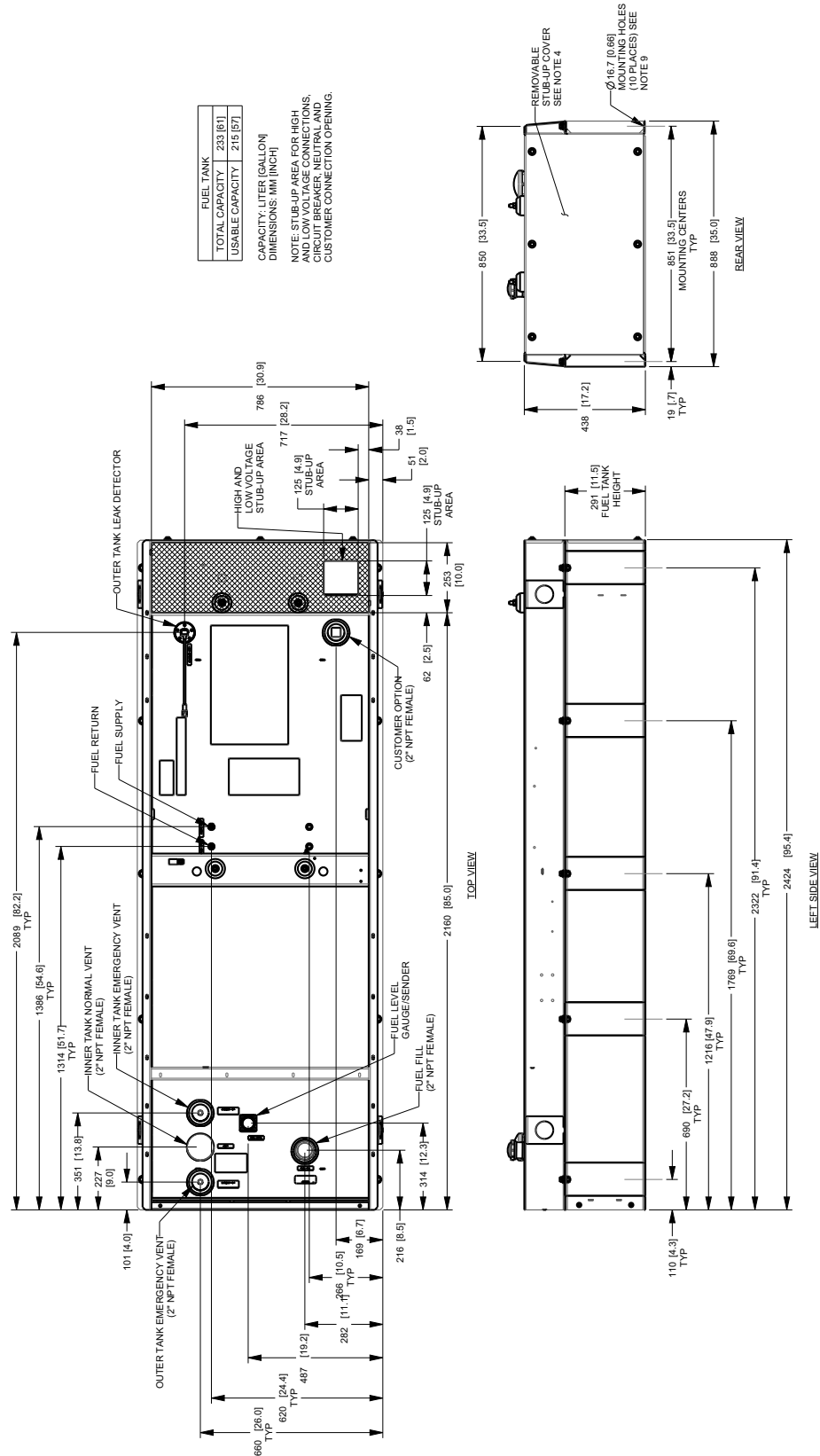
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1194 (47") WIDE X 2361 (89") LONG.
2. REFERENCE INSTALLATION GUIDE PAD SIZE: 1194 (47") WIDE X 2361 (89") LONG.
3. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICE ACCESS.
4. CONCRETE SHALL BE A MINIMUM OF 4" THICK AND SHALL MEET ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
5. APPLICABLE NFPA 701 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
6. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
 - SEE SPECIFICATION SHEET FOR OWNERS MANUAL
 - PROVIDE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR
7. REMOVE THE REAR TANK AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUD-UP AREAS AS FOLLOWS:
 - LOW VOLTAGE CONNECTIONS INCLUDING TRIP LUGS
 - NEUTRAL CONNECTION, BATTERY CHARGER (20V AC/0.5 AMP MAX) CONNECTION
 - LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES
 - CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
8. ENGINE SERVICE CONNECTIONS
 - EXHAUST OUTLET: 2" O.D.
9. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
 - MOUNTING LEGS SHALL BE 1/2" DIA. STEEL OR EQUIVALENT
 - MOUNTING LEGS TO CONCRETE PAD SHALL BE 5/8"-11 GRADE 5 (SEE STANDARD SAE TORQUE SPECS).

REFERENCE OWNERS MANUAL FOR
PERIODIC REPLACEMENT PART LISTINGS



15 • 20 • 30 • 48 • 50 kW

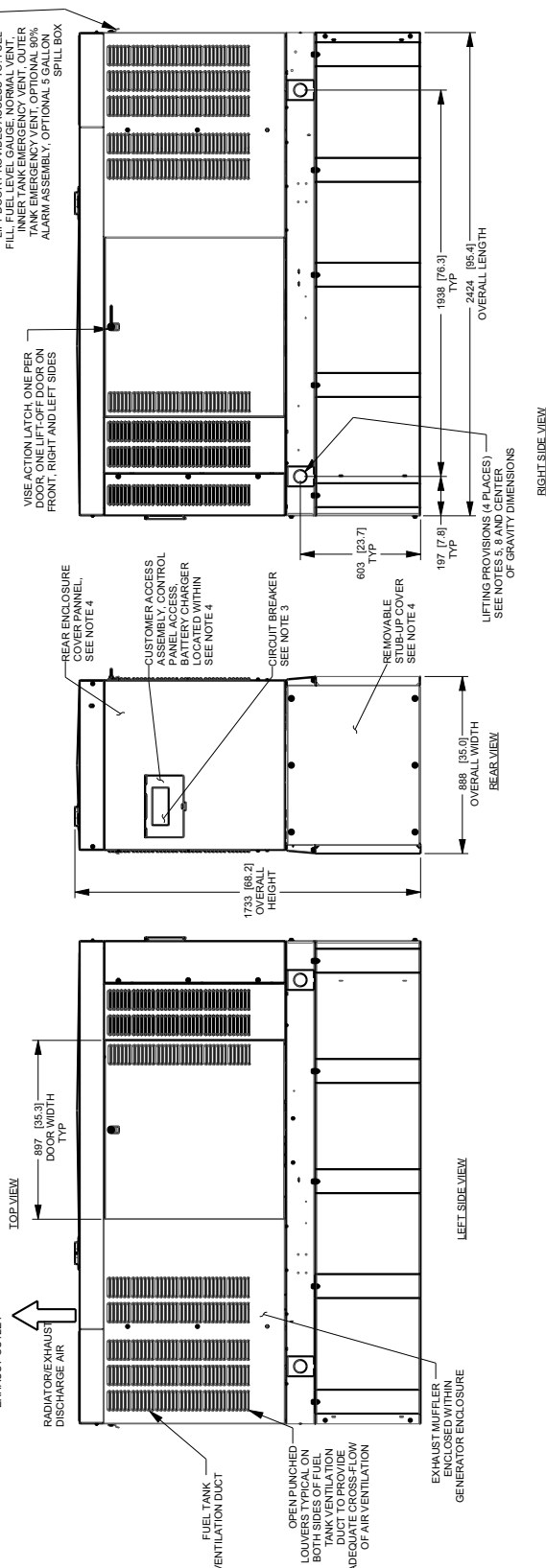
D2.2L G22 57 Gal Tank (2 of 2)



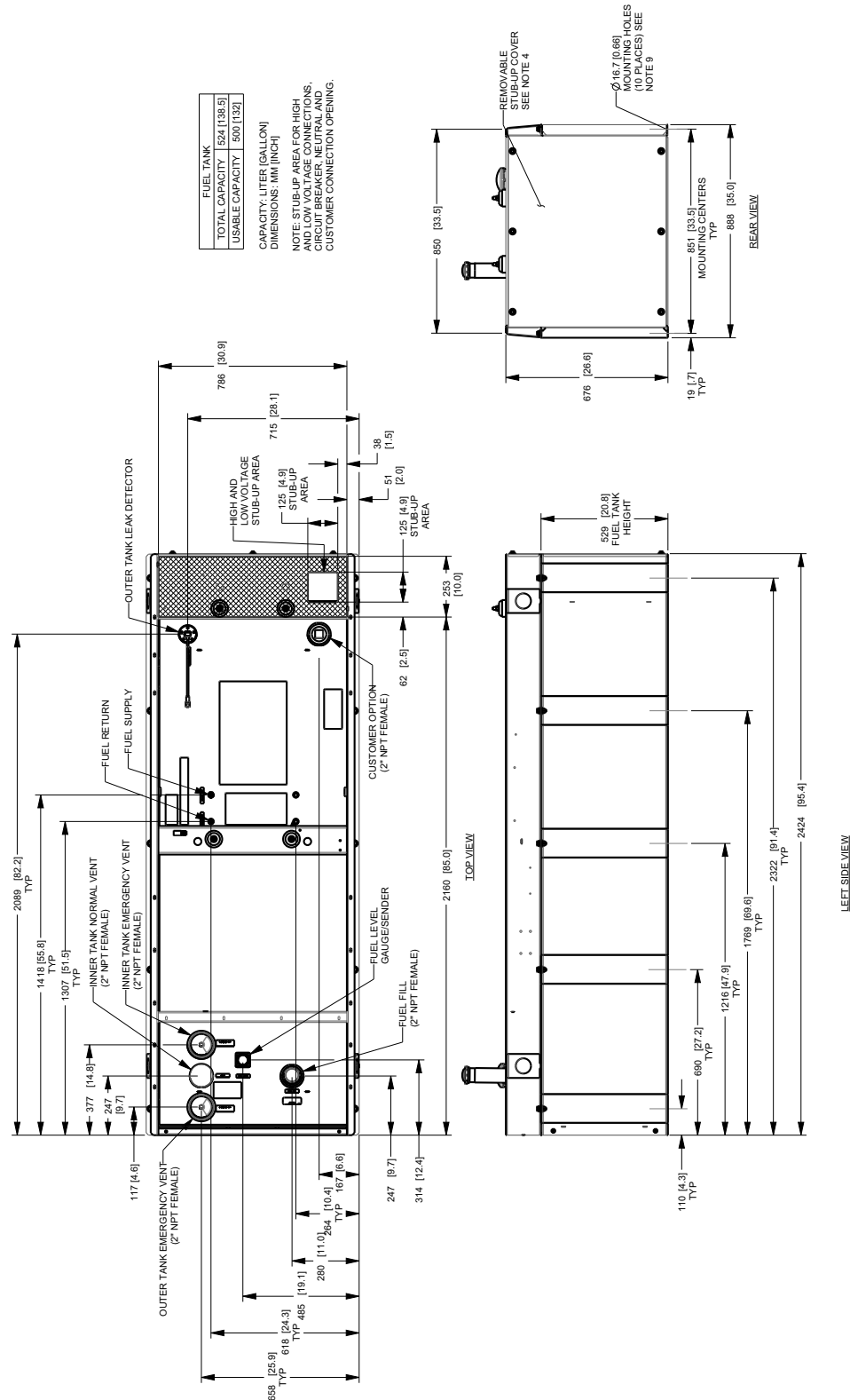
D2.2L G22 132 Gal Tank (1 of 2)

Diagram illustrating the internal components and maintenance access points of the generator enclosure:

- INTERNAL DIVIDER PANEL**: SEPARATES FUEL TANK FROM THE ENGINE, ALTERNATOR AND EXHAUST SYSTEM
- REMOVE PANEL TO ALLOW MAINTENANCE TO BE MADE TO INSIDE OF THE GENERATOR ENCLOSURE (CHECK LOCAL AND STATE REGULATIONS FOR APPLICABILITY)**
- 173 [6.8]**: EXHAUST OUTLET
- 611 [24.0]**: EXHAUST OUTLET
- REMOVE COVER FOR ACCESS TO RADIATOR FILL CAP**
- BATTERY 12 VOLT NEGATIVE GROUND**
- 1029 [40.5]**: CENTER OF GRAVITY
- AIR INTAKE (BOTH SIDES)**
- RADIATOR/EXHAUST DISCHARGE AIR (BOTH SIDES)**

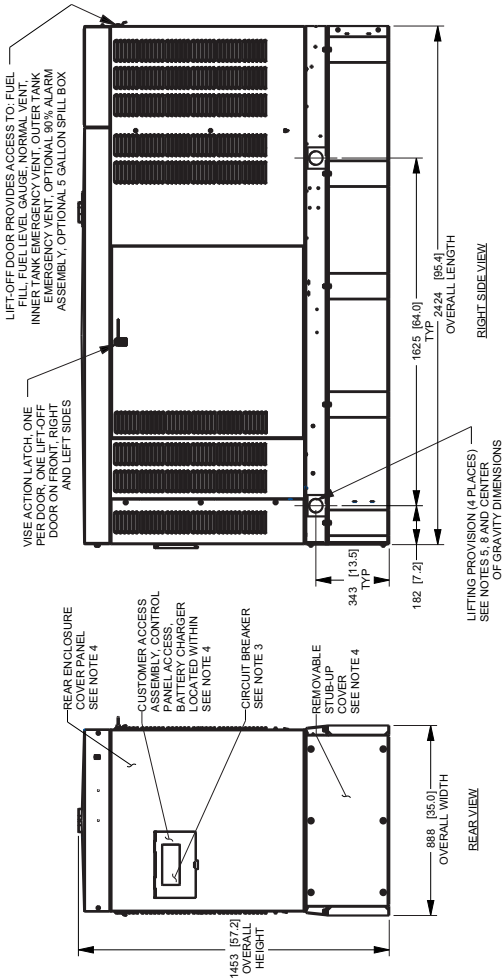
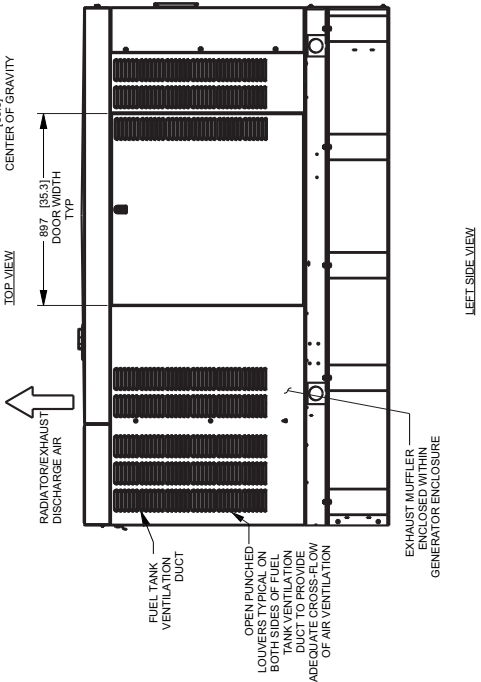
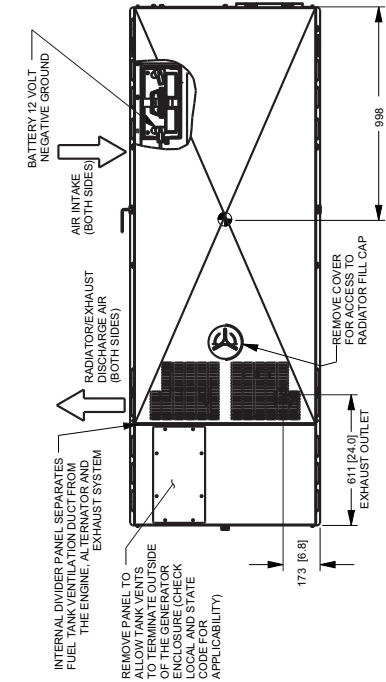


D2.2L G22 132 Gal Tank (2 of 2)



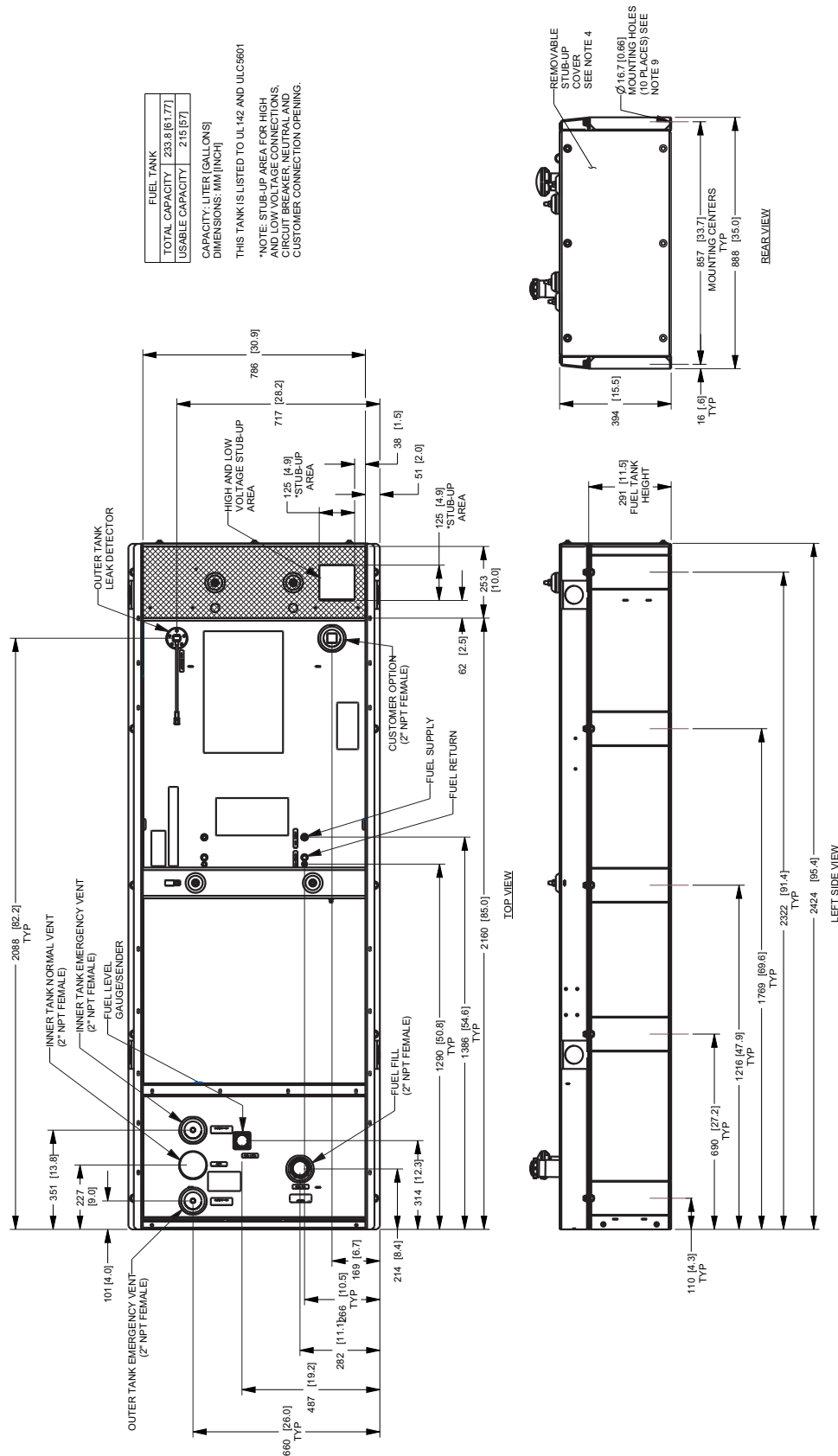
D3.3L 57 Gal Tank (1 of 2)

SERVICE ITEM	3.3L	WEIGHT DATA WITH EMPTY BASE/TANK (SEE NOTE 5)	NOTES:
OIL FILL CAP	LEFT	GENERATOR AS SHOWN 1005 [21.5]	1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1194 (47") WIDE X 2718 (107") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT
OIL DIP STICK	LEFT	WITH WOODEN SHIPPING SKID 1050 [23.5]	2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICE. 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.
OIL DRAIN HOSE	RIGHT	WEIGHT: KG (LBS)	3. SEE SPECIFICATION SHEET OR OWNER'S MANUAL
RADIATOR DRAIN HOSE	RIGHT	DIMENSIONS: MM (INCH)	- ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR
COOLANT RECOVERY BOTTLE	RIGHT		4. REMOVE THE REAR TANK AND REAR ENCLOSURE COVER PANEL TO ACCESS
RADIATOR FILL CAP ACCESS	ROOF		- HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION
AIR CLEANER ELEMENT	RIGHT		- NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION
MUFFLER	FRONT		- LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES
FAN BELT	EITHER		5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
BATTERY	RIGHT		6. WIRING AND ELECTRICAL CONNECTIONS
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS			7. EXHAUST OUTLET, 2" O.D.
			8. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
			9. REFER TO OWNERS MANUAL FOR LIFTING WARNINGS
			10. MOUNTING BOLTS OR STUDS TO CONCRETE PAD SHALL BE 5/8"-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)



15 • 20 • 30 • 48 • 50 kW

D3.3L 57 Gal Tank (2 of 2)



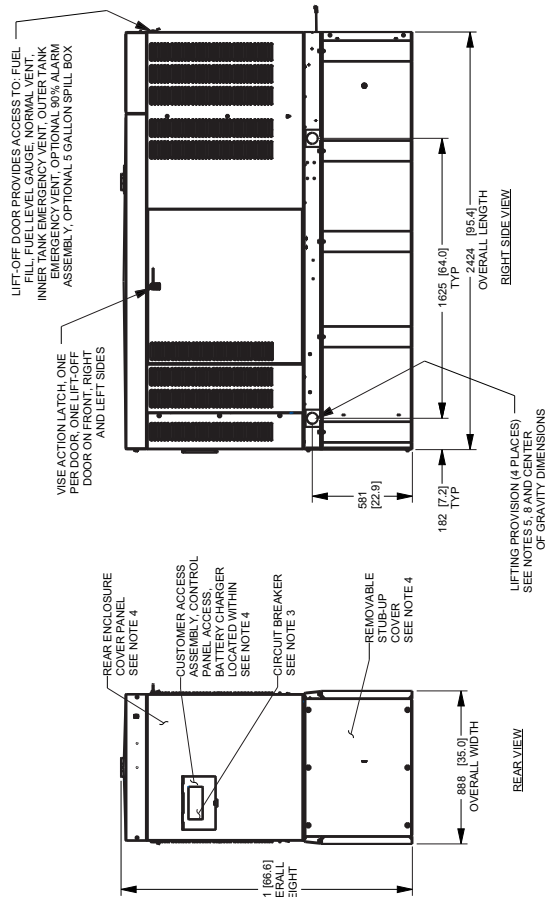
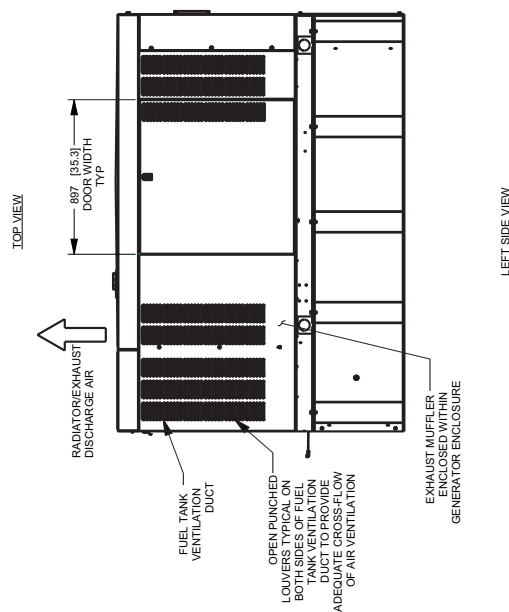
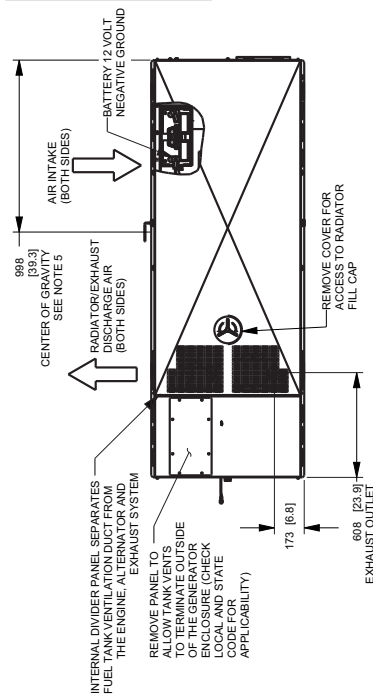
15 • 20 • 30 • 48 • 50 kW

D3.3L G16 132 Gal Tank (1 of 2)

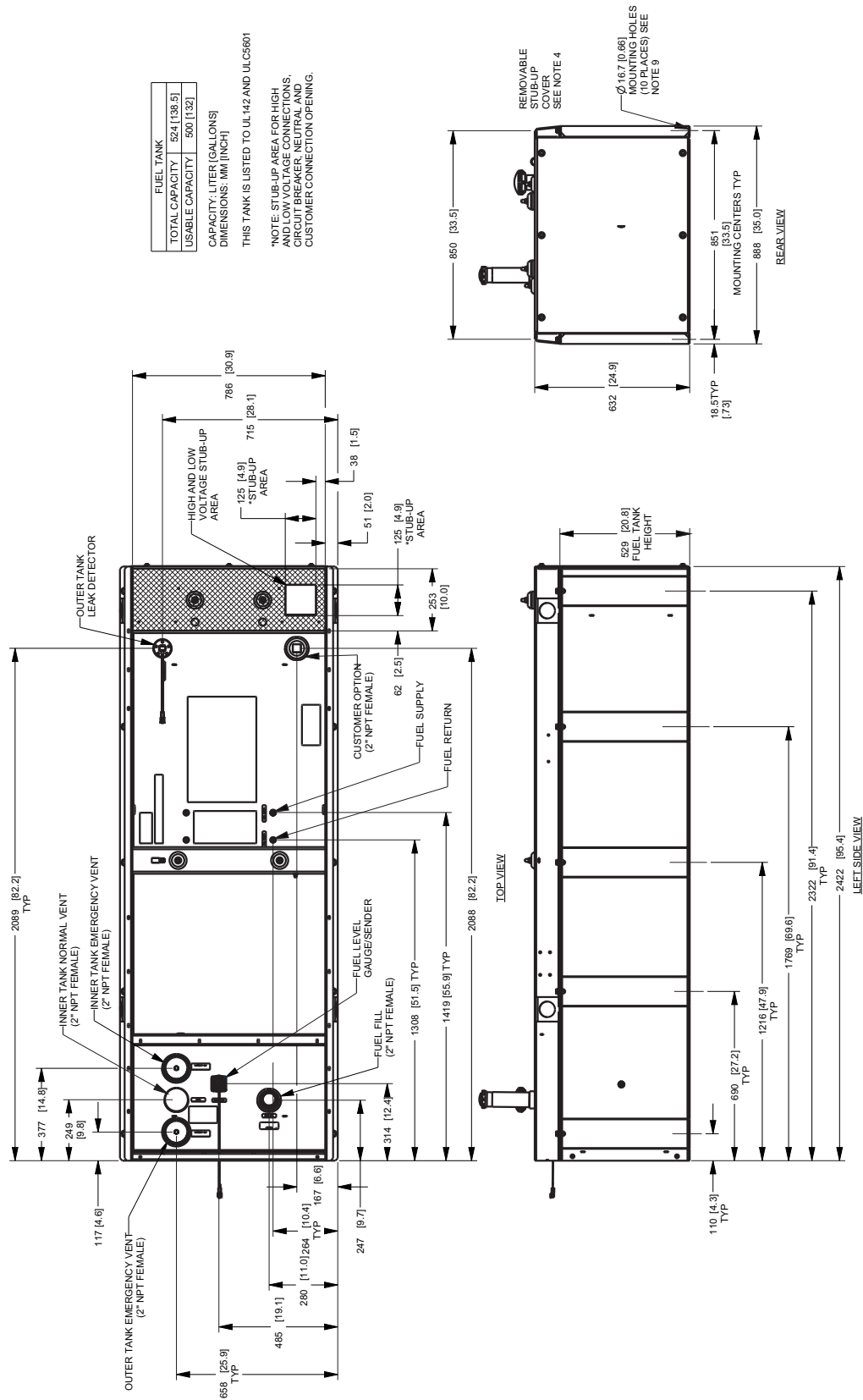
NOTES:

1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1194 (47") WIDE X 2718 (107") LONG. CONCRETE SHALL BE SUPPLIED WITH UNIT.
2. CONCRETE PAD SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF THE NFPA 70, NFPA 70A, NFPA 70B, NFPA 70E, NFPA 70F, NFPA 70G, NFPA 70H, NFPA 70I, NFPA 70J, NFPA 70K, NFPA 70L, NFPA 70M, NFPA 70N, NFPA 70O, NFPA 70P, NFPA 70Q, NFPA 70R, NFPA 70S, NFPA 70T, NFPA 70U, NFPA 70V, NFPA 70W, NFPA 70X, NFPA 70Y, NFPA 70Z, NFPA 70AA, NFPA 70AB, NFPA 70AC, NFPA 70AD, NFPA 70AE, NFPA 70AF, NFPA 70AG, NFPA 70AH, NFPA 70AI, NFPA 70AJ, NFPA 70AK, NFPA 70AL, NFPA 70AM, NFPA 70AN, NFPA 70AO, NFPA 70AP, NFPA 70AQ, NFPA 70AR, NFPA 70AS, NFPA 70AT, NFPA 70AU, NFPA 70AV, NFPA 70AW, NFPA 70AX, NFPA 70AY, NFPA 70AZ, NFPA 70BA, NFPA 70BB, NFPA 70BC, NFPA 70BD, NFPA 70BE, NFPA 70BF, NFPA 70BG, NFPA 70BH, NFPA 70BI, NFPA 70BJ, NFPA 70BK, NFPA 70BL, NFPA 70BM, NFPA 70BN, NFPA 70BO, NFPA 70BP, NFPA 70BQ, NFPA 70BR, NFPA 70BS, NFPA 70BT, NFPA 70BU, NFPA 70BV, NFPA 70BW, NFPA 70BX, NFPA 70BY, NFPA 70BZ, NFPA 70CA, NFPA 70CB, NFPA 70CC, NFPA 70CD, NFPA 70CE, NFPA 70CF, NFPA 70CG, NFPA 70CH, NFPA 70CI, NFPA 70CJ, NFPA 70CK, NFPA 70CL, NFPA 70CM, NFPA 70CN, NFPA 70CO, NFPA 70CP, NFPA 70CQ, NFPA 70CR, NFPA 70CS, NFPA 70CT, NFPA 70CU, NFPA 70CV, NFPA 70CW, NFPA 70CX, NFPA 70CY, NFPA 70CZ, NFPA 70DA, NFPA 70DB, NFPA 70DC, NFPA 70DD, NFPA 70DE, NFPA 70DF, NFPA 70DG, NFPA 70DH, NFPA 70DI, NFPA 70DJ, NFPA 70DK, NFPA 70DL, NFPA 70DM, NFPA 70DN, NFPA 70DO, NFPA 70DP, NFPA 70DQ, NFPA 70DR, NFPA 70DS, NFPA 70DT, NFPA 70DU, NFPA 70DV, NFPA 70DW, NFPA 70DX, NFPA 70DY, NFPA 70DZ, NFPA 70EA, NFPA 70EB, NFPA 70EC, NFPA 70ED, NFPA 70EE, NFPA 70EF, NFPA 70EG, NFPA 70EH, NFPA 70EI, NFPA 70EJ, NFPA 70EK, NFPA 70EL, NFPA 70EM, NFPA 70EN, NFPA 70EO, NFPA 70EP, NFPA 70EQ, NFPA 70ER, NFPA 70ES, NFPA 70ET, NFPA 70EU, NFPA 70EV, NFPA 70EW, NFPA 70EX, NFPA 70EY, NFPA 70EZ, NFPA 70FA, NFPA 70FB, NFPA 70FC, NFPA 70FD, NFPA 70FE, NFPA 70FF, NFPA 70FG, NFPA 70FH, NFPA 70FI, NFPA 70FJ, NFPA 70FK, NFPA 70FL, NFPA 70FM, NFPA 70FN, NFPA 70FO, NFPA 70FP, NFPA 70FQ, NFPA 70FR, NFPA 70FS, NFPA 70FT, NFPA 70FU, NFPA 70FV, NFPA 70FW, NFPA 70FX, NFPA 70FY, NFPA 70FZ, NFPA 70GA, NFPA 70GB, NFPA 70GC, NFPA 70GD, NFPA 70GE, NFPA 70GF, NFPA 70GG, NFPA 70GH, NFPA 70GI, NFPA 70GJ, NFPA 70GK, NFPA 70GL, NFPA 70GM, NFPA 70GN, NFPA 70GO, NFPA 70GP, NFPA 70GQ, NFPA 70GR, NFPA 70GS, NFPA 70GT, NFPA 70GU, NFPA 70GV, NFPA 70GW, NFPA 70GX, NFPA 70GY, NFPA 70GZ, NFPA 70HA, NFPA 70HB, NFPA 70HC, NFPA 70HD, NFPA 70HE, NFPA 70HF, NFPA 70HG, NFPA 70HH, NFPA 70HI, NFPA 70HJ, NFPA 70HK, NFPA 70HL, NFPA 70HM, NFPA 70HN, NFPA 70HO, NFPA 70HP, NFPA 70HQ, NFPA 70HR, NFPA 70HS, NFPA 70HT, NFPA 70HU, NFPA 70HV, NFPA 70HW, NFPA 70HX, NFPA 70HY, NFPA 70HZ, NFPA 70IA, NFPA 70IB, NFPA 70IC, NFPA 70ID, NFPA 70IE, NFPA 70IF, NFPA 70IG, NFPA 70IH, NFPA 70II, NFPA 70IJ, NFPA 70IK, NFPA 70IL, NFPA 70IM, NFPA 70IN, NFPA 70IO, NFPA 70IP, NFPA 70IQ, NFPA 70IR, NFPA 70IS, NFPA 70IT, NFPA 70IU, NFPA 70IV, NFPA 70IW, NFPA 70IX, NFPA 70IY, NFPA 70IZ, NFPA 70JA, NFPA 70JB, NFPA 70JC, NFPA 70JD, NFPA 70JE, NFPA 70JF, NFPA 70JG, NFPA 70JH, NFPA 70JI, NFPA 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70TX, NFPA 70TY, NFPA 70TZ, NFPA 70UA, NFPA 70UB, NFPA 70UC, NFPA 70UD, NFPA 70UE, NFPA 70UF, NFPA 70UG, NFPA 70UH, NFPA 70UI, NFPA 70UJ, NFPA 70UK, NFPA 70UL, NFPA 70UM, NFPA

REFERENCE OWNERS MANUAL FOR
PERIODIC REPLACEMENT PART LISTINGS



D3.3L G16 132 Gal Tank (2 of 2)



15 • 20 • 30 • 48 • 50 kW

Available Accessories

Model #	Product	Description
G006478-0	Harness Adapter Kit	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link™.
G006502-0	Spill Box	The 5-gallon spill box screws into the existing fuel fill port of the base tank. It captures and contains fuel if over fueling or spilling occurs during the fill process.
G006504-0	90% Fuel Level Alarm	The 90% fuel level alarm alerts the fuel fill operator when the tank reaches a 90% fill level by sounding an audible alarm and triggering an LED warning light.
G006505-0—15 & 20 kW G006506-0—30, 48, & 50 kW	Tank Risers	Tank risers are required in some municipalities to help avoid potential base tank corrosion caused by mounting on rough surfaces.
G006507-0	Fuel Fill Drop Tube	A powder coat painted, steel fuel fill drop tube is required in some municipalities to prevent sparking due to static electricity buildup, which can be caused by the fuel dropping into the tank from the fill area. Using a drop tube also results in submerged filling, which increases the fuel delivery flow rate and reduces vapors, foam and potential tank evaporation.
G007660-0—15 & 20 kW G007661-0—30 kW G007662-0—48 & 50 kW	Stainless Steel Fuel Lines	Some municipalities require the use of stainless steel fuel lines instead of the standard hoses provided with the diesel generator products. These stainless steel lines are fire resistant for additional safety.
G006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
G006511-0	Spill Box Drainback Kit	The spill box drainback kit allows fuel that was captured in the 5-gallon spill box to be drained directly back into the fuel tank to avoid vapors.
G006588-1	Vent Extension Support Kit	The vent extension support kit consists of two aluminum plates with the appropriate pipe cutouts to secure the vent extension pipes coming through the top of the generator enclosure. It helps to minimize stress on the NPT fittings integrated on the tank and also helps protect against pests.
G006512-0	Lockable Fuel Cap	The cast iron, lockable fuel cap provides the ability to lock the fuel system to prevent unwanted fuel tampering or fuel siphoning.
G007640-0—15 & 20 kW G007641-0—30 kW G007642-0—48 & 50 kW	Maintenance Kits	The Protector Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac Protector generators.
G007650-0—15 & 20 kW G007651-0—30 kW G007652-0—48 & 50 kW	Cold Weather Kits	Recommended for generators installed in regions where the temperature regularly falls below 32 °F (0 °C). The Cold Weather Kits consist of a block heater with all necessary mounting hardware and a battery warmer with a thermostat built into the battery wrap.
G005703-0	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.
G006873-0	Smart Management Module (50 Amps)	Manage large loads by utilizing up to 8 individual Smart Management modules. These devices are installed directly in line with existing appliance wiring for easy installation.
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.