

Protector™ Series

GENERAC®

Diesel Generator Set

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
- ±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

Meets EPA Emission Regulations
CA/MA Emissions Compliant

* Time calculated at one-half maximum kW output.

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

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.
- **MOBILE LINK® CONNECTIVITY:** FREE with all Protector Series Home standby generators, Mobile Link Wi-Fi allows users to monitor generator status from anywhere in the world using a smartphone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account to an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.
- **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 ±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.

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



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Extended Warranties Available**



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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

<p>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</p>

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.

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)	2,376—15 & 20 kW
	1,980—30 kW
	2,340—48 & 50 kW
Fan Diameter (in / mm)	18.11 / 460 (15 & 20 kW)
	18.1 / 460 (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	1,528 / 693	81 x 31 x 51 / 206 x 79 x 129
	95 Gal	1,757 / 797	81 x 31 x 61 / 206 x 79 x 165
20 kW	32 Gal	1,528 / 693	81 x 31 x 51 / 206 x 79 x 129
	95 Gal	1,757 / 797	81 x 31 x 61 / 206 x 79 x 165
30 kW	57 Gal	1,857 / 842	95 x 35 x 59 / 241 x 89 x 150
	132 Gal	2,070 / 939	95 x 35 x 68 / 241 x 89 x 173
48 & 50 kW	57 Gal	2,215 / 1,102	95 x 35 x 57 / 241 x 89 x 145
	132 Gal	2,429 / 1,102	95 x 35 x 66 / 241 x 89 x 168

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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)	
		gal / L	gal / L	gal / L	gal / L	gal / L	gal / L
15 kW	32 Gal Tank	32	127	32	121	39	
	95 Gal Tank	98.5	372.9	95	359.6	115.8	
20 kW	32 Gal Tank	32	127	32	121	31	
	95 Gal Tank	98.5	372.9	95	359.6	92.2	
30 kW	57 Gal Tank	61	233	57	215	41.6	
	132 Gal Tank	138.5	524	132	500	96.4	
48 & 50 kW	57 Gal Tank	62	234.7	57	215	28.2	
	132 Gal Tank	138.5	524	132	500	65.3	

GENERATOR OUTPUT VOLTAGE / KW-60 HZ

Model	Voltage / Phase / PF	kW (Standby)		Amp (Standby)		kW (Prime)		Amp (Prime)		CB Size
		Standby	Prime	Standby	Prime	Standby	Prime	Standby	Prime	
RD015	120 / 240 V, 1Ø, 1.0 pf	15	12	62	50	12	10	50	70	70
	120 / 208 V, 3Ø, 0.8 pf	15	12	52	42	12	10	42	60	60
	120 / 240 V, 3Ø, 0.8 pf	15	12	45	36	12	10	36	50	50
RD020	120 / 240 V, 1Ø, 1.0 pf	20	16	83	67	16	13	67	100	100
	120 / 208 V, 3Ø, 0.8 pf	20	16	69	56	16	13	56	80	80
	120 / 240 V, 3Ø, 0.8 pf	20	16	60	48	16	13	48	70	70
RD030	120 / 240 V, 1Ø, 1.0 pf	30	24	125	100	24	19	100	150	150
	120 / 208 V, 3Ø, 0.8 pf	30	24	104	83	24	19	83	125	125
	120 / 240 V, 3Ø, 0.8 pf	30	24	90	72	24	19	72	100	100
	277 / 480 V, 3Ø, 0.8 pf	30	24	45	36	24	19	36	50	50
RD048	120 / 240 V, 1Ø, 1.0 pf	48	40	200	183	38.4	30	183	200	200
	120 / 208 V, 3Ø, 0.8 pf	50	40	173	153	40	30	153	200	200
RD050	120 / 240 V, 3Ø, 0.8 pf	50	40	150	132	40	30	132	175	175
	277 / 480 V, 3Ø, 0.8 pf	50	40	75	66	40	30	66	90	90

SURGE CAPACITY IN AMPS

Model	Voltage / Phase	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
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

Model	Load	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

ENGINE COOLING

	15 kW	20 kW	30 kW	48 kW & 50 kW
Air flow (inlet air including alternator and combustion air in cfm / cmm)	2,750 / 78	2,750 / 78	2,800 / 79	2,824 / 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 (°F / °C)	122 / 50			
Maximum ambient temperature (°F / °C)	122 / 50			

COMBUSTION REQUIREMENTS

	15 kW	20 kW	30 kW	48 kW & 50 kW
Flow at rated power (cfm / cmm)	86.3 / 2.4	86.3 / 2.4	88 / 2.5	190 / 5.38

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

	15 kW	20 kW	30 kW	48 kW & 50 kW
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 (°F / °C)	900 / 482	900 / 482	930 / 499	930 / 499

ENGINE PARAMETERS

Rated Synchronous Rpm	1,800			
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 – 1,500 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

REMOTE MONITORING

● Ability to view generator status	Monitor generator with a smartphone, tablet, or computer at any time via the Mobile Link application for complete peace of mind.
● Ability to view generator Exercise / Run and Total Hours	Review the generator's complete protection profile for exercise hours and total hours.
● Ability to view generator maintenance information	Provides maintenance information for the specific model generator when scheduled maintenance is due.
● Monthly report with previous month's activity	Detailed monthly reports provide historical generator information.
● Ability to view generator battery information	Built in battery diagnostics displaying current state of the battery.
● Weather information	Provides detailed local ambient weather conditions for generator location.

15 • 20 • 30 • 48 • 50 kW

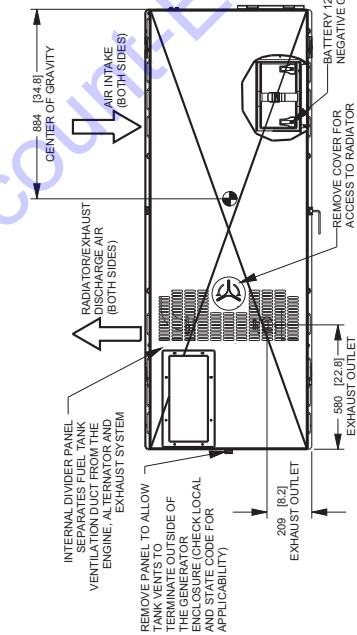
D2.5L G2 32 Gal Tank (1 of 2)

Installation Drawings

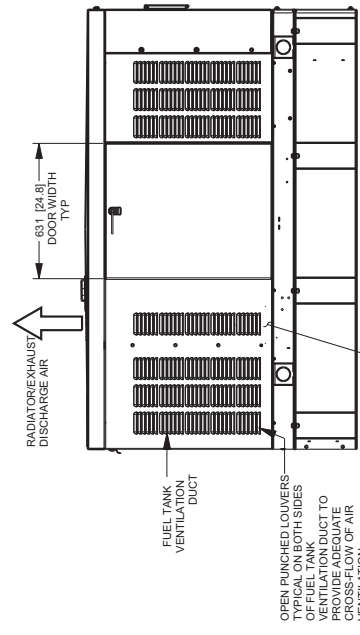
- NOTES:
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1892 (45) WIDE X 1897 (74.5) LONG. SEE NOTES 2 AND 3 FOR DIMENSIONAL REQUIREMENTS.
 2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
 3. SEE SPECIFICATION SHEET OR OWNERS MANUAL FOR BREAKER INFORMATION.
 4. ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR. THE STUB-UP AREAS AS FOLLOWS:
 - FUEL TANK VENTILATION DUCT
 - RADIATOR EXHAUST AND BATTERY CHARGER (20 VOLT, 10.5 AMP MAX) CONNECTION.
 - NEUTRAL CONNECTION AND BATTERY CHARGER (20 VOLT, 10.5 AMP MAX) CONNECTION.
 - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES AND ACCESSORY RELAY CONNECTION (QTY 4)
 5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS. REFER TO OWNERS MANUAL FOR LIFTING WARNINGS.
 6. RELOCATION 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. TEST FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.

SERVICE ITEM	2.5L	WEIGHT DATA WITH EMPTY BASE TANK (SEE NOTE 5)
OIL-FILL CAP	RIGHT SIDE	GENERATOR AS SHOWN 683 [1528]
OIL DIP STICK	RIGHT SIDE	WITH WOODEN SHIPPING SKID 731.6 [1860]
OIL FILTER	RIGHT SIDE	
OIL DRAIN HOSE	LEFT SIDE	WEIGHT: KG (LBS)
RADIATOR DRAIN HOSE	LEFT SIDE	DIMENSIONS: MM (INCH)
COOLANT RECOVERY BOTTLE	LEFT SIDE	
RADIATOR FILL CAP ACCESS	ROOF	
AIR CLEANER ELEMENT	LEFT SIDE	
MUFFLER	FRONT	
FAN BELT	EITHER SIDE	
BATTERY	LEFT SIDE	

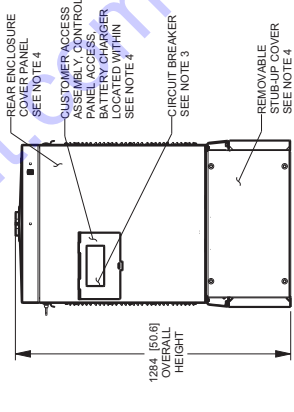
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS.



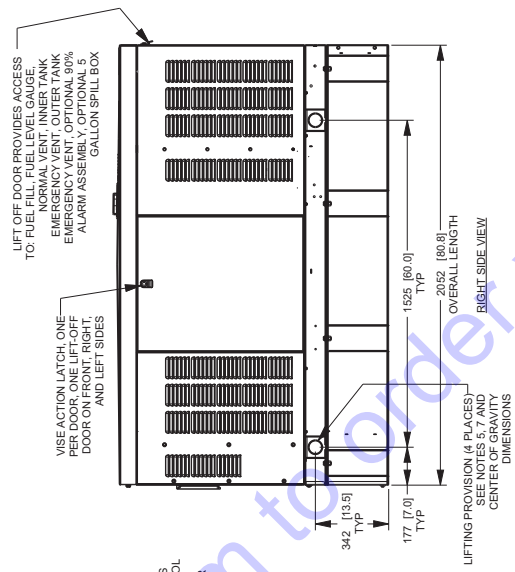
TOP VIEW



LEFT SIDE VIEW



REAR VIEW



RIGHT SIDE VIEW

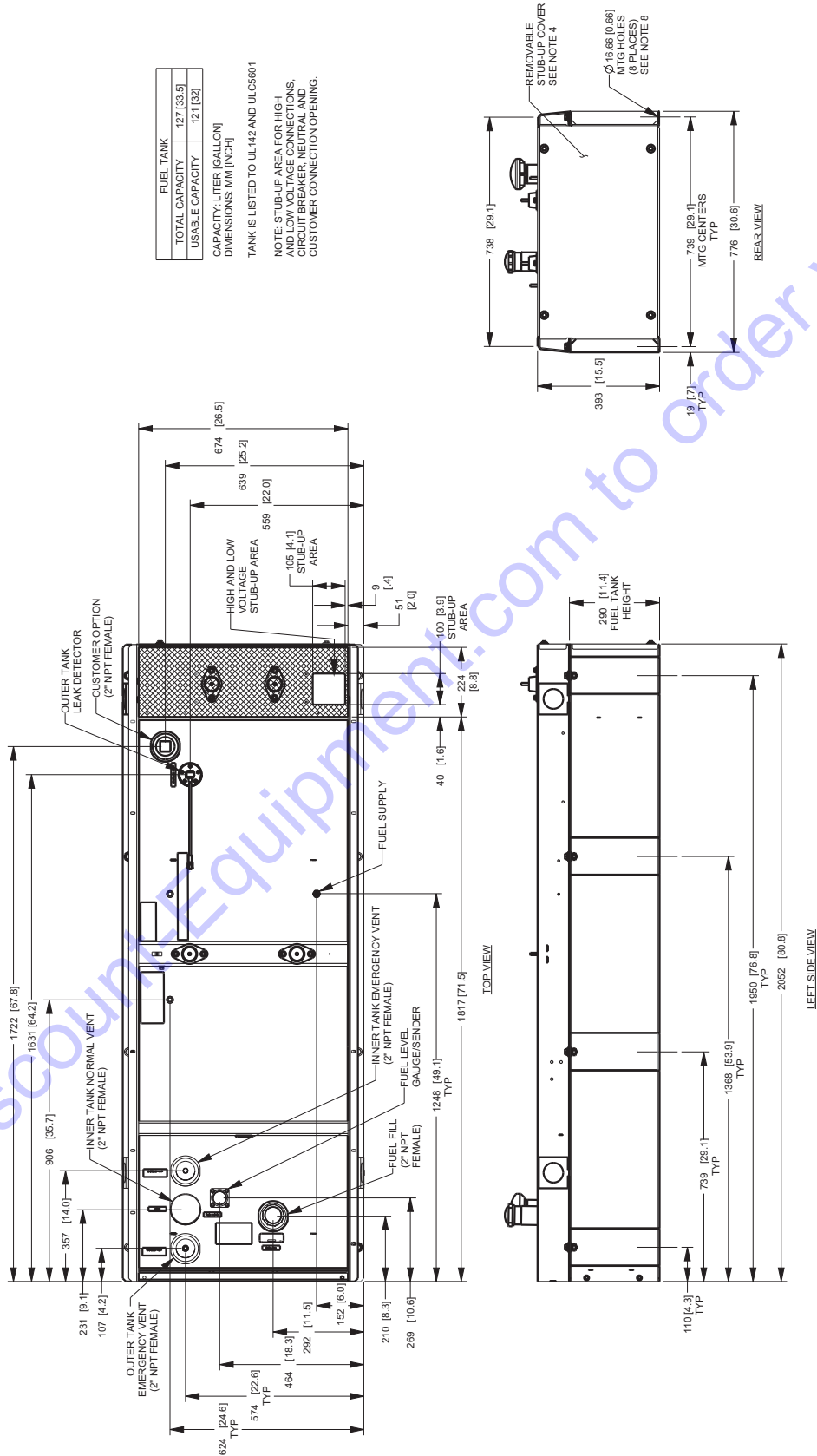
Go to Discover Equipment to order your parts

15 • 20 • 30 • 48 • 50 kW

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

FUEL TANK	
TOTAL CAPACITY	127 [33.5]
USABLE CAPACITY	121 [32]

CAPACITY: LITER [GALLON]
 DIMENSIONS: MM [INCH]
 TANK IS LISTED TO UL142 AND UL5601
 NOTE: STUB-UP AREA FOR HIGH
 AND LOW VOLTAGE CONNECTIONS,
 CIRCUIT BREAKER, NEUTRAL AND
 CUSTOMER CONNECTION OPENING.



15 • 20 • 30 • 48 • 50 kW

Installation Drawings

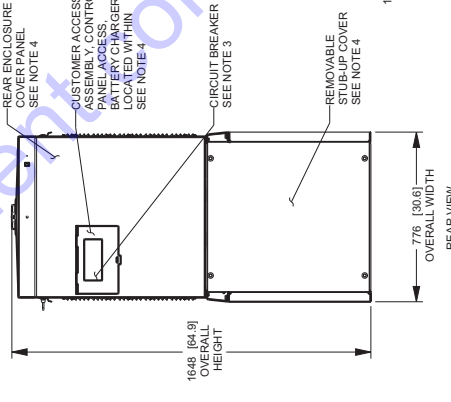
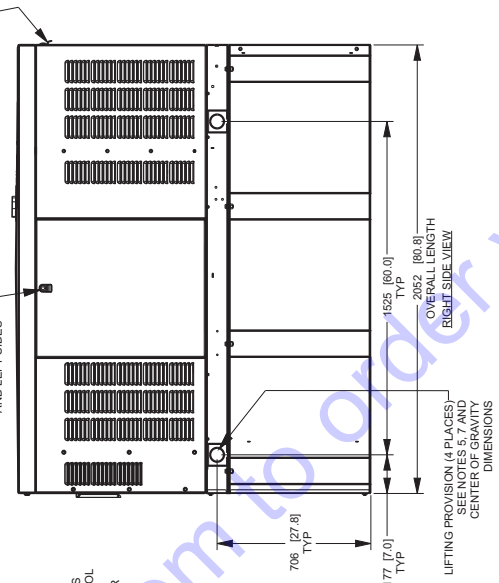
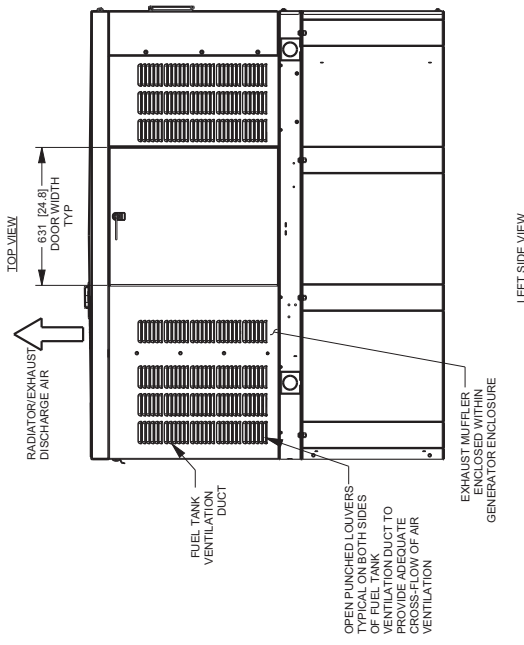
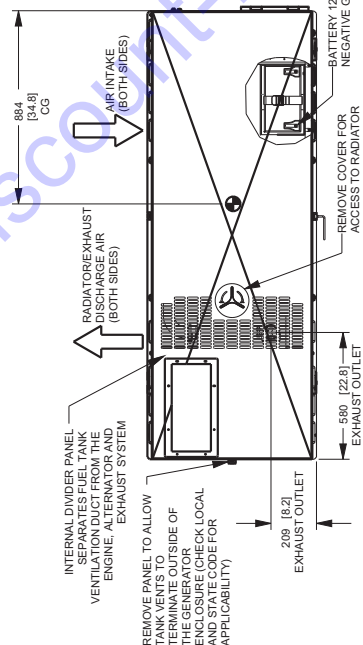
D2.5L G2 95 Gal Tank (1 of 2)

NOTES:

- MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1082 (43") WIDE X 1887 (74.3") LONG. REFER TO INSTALLATION GUIDE SUPPLIED WITH GENERATOR FOR CONCRETE PAD GUIDELINES.
- GENERATOR MUST BE INSTALLED ON A CONCRETE PAD WITH PROPER REINFORCEMENT AND GUIDELINES. REFER TO INSTALLATION GUIDE SUPPLIED WITH GENERATOR FOR CONCRETE PAD GUIDELINES.
- APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
- CONTROL PANEL, CIRCUIT BREAKER INFORMATION:
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
 - REMOVE THE REAR STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
 - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION, DISCHARGE AIR AND BATTERY CHARGER (20/20/1 AC (0.5 AMP MAX) CONNECTION).
 - LOW VOLTAGE CONNECTION INCLUDING BATTERY CHARGER SWITCH CONTROL WIRES AND ACCESSORY RELAY CONNECTION (QTY:4)
- CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
- BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND IMPROPER COOLING AIR FLOW.
- INSTALLATION OF MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
- MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- GENERATOR MUST BE INSTALLED ON A SURFACE THAT IS LEVEL AND AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RE-CIRCULATED.

SERVICE ITEM	2.5L	WEIGHT DATA WITH EMPTY BASE TANK (SEE NOTE 5)
OIL FILL CAP	RIGHT SIDE	GENERATOR AS SHOWN 797 (1757)
OIL DIP STICK	RIGHT SIDE	WITH WOODEN SHIPPING SKID 835 (1841)
OIL FILTER	RIGHT SIDE	WEIGHT: KG (LBS)
OIL DRAIN HOSE	LEFT SIDE	DIMENSIONS: MM (INCH)
RADIATOR DRAIN HOSE	RIGHT SIDE	
COOLANT RECOVERY BOTTLE	LEFT SIDE	
RADIATOR FILL CAP ACCESS	ROOF	
AIR CLEANER ELEMENT	LEFT SIDE	
MUFFLER	FRONT	
FAN BELT	RIGHT SIDE	
BATTERY	LEFT SIDE	

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS.



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15 • 20 • 30 • 48 • 50 kW

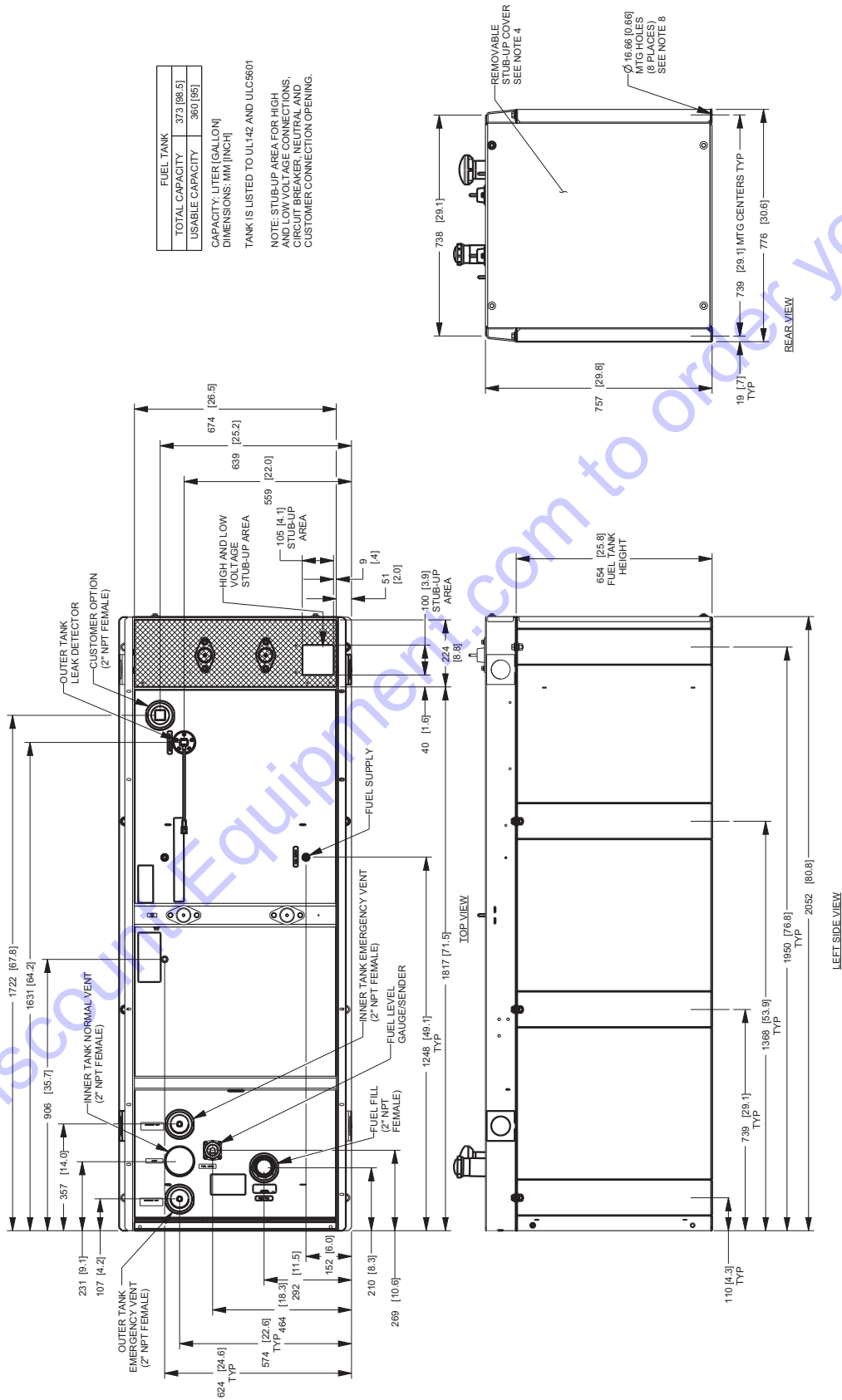
D2.5L G2 95 Gal Tank (2 of 2)

FUEL TANK	
TOTAL CAPACITY	97.3 [96.5]
USABLE CAPACITY	86.0 [85]

CAPACITY, LITER (GALLON) DIMENSIONS, MM (INCH)

TANK IS LISTED TO UL142 AND ULCS601

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



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15 • 20 • 30 • 48 • 50 kW

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

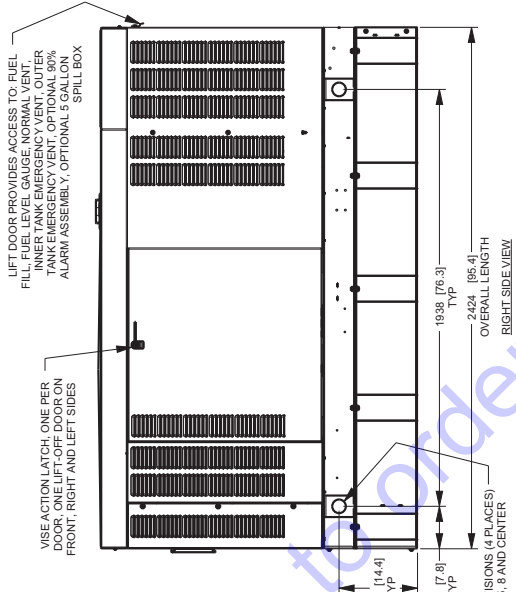
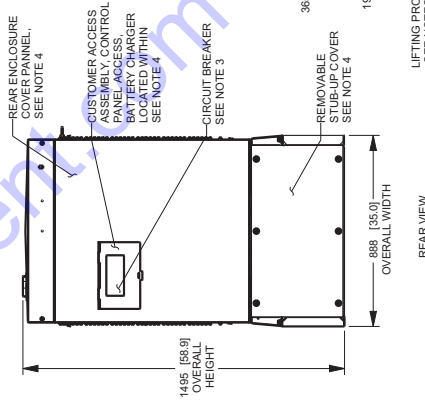
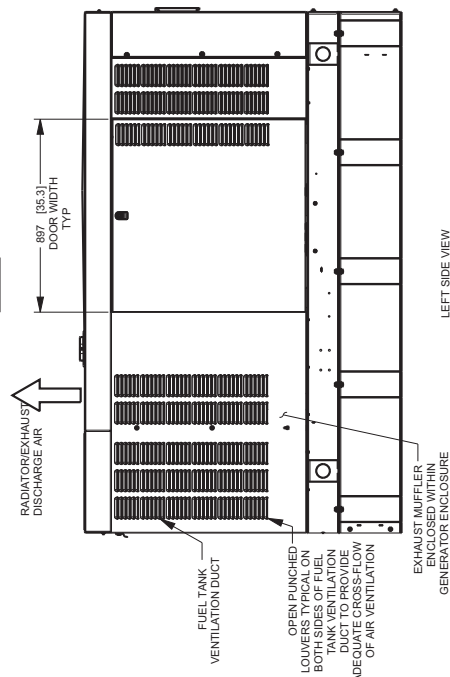
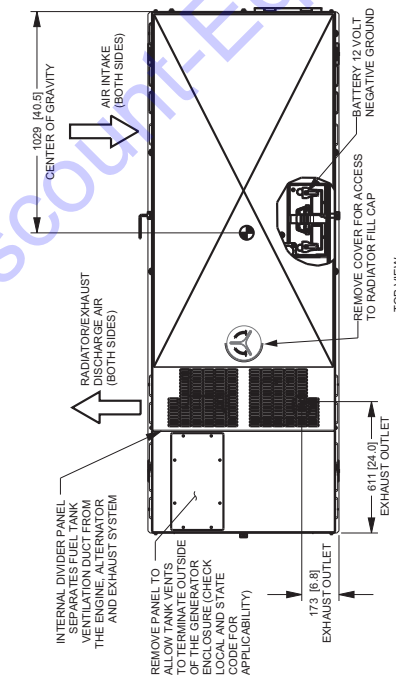
Installation Drawings

SERVICE ITEM	2.2L
OIL FILL CAP	RIGHT SIDE
OIL DIP STICK	RIGHT SIDE
OIL FILLER	RIGHT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	LEFT SIDE
COOLANT RECOVERY BOTTLE	LEFT SIDE
RADIATOR FILL CAP ACCESS	ROOF
AIR CLEANER ELEMENT	RIGHT SIDE
MUFFLER	FRONT SIDE
FAN BELT	EITHER SIDE
BATTERY	LEFT SIDE

PERIODIC REPLACEMENT PART LISTINGS

NOTES:

- MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1194 (47") WIDE X 2729 (108") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT
- 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.
- SEE SPECIFICATION SHEET OR OWNER'S MANUAL FOR BREAKER INFORMATION.
- ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR
- REMOVE THE REAR TANK AND REAR ENCLOSURE COVER PANEL TO ACCESS HIGH VOLTAGE CONNECTIONS INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT 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.
- ENGINE SERVICE CONNECTIONS
- EXHAUST OUTLET, 2" O.D.
- BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS
- CONCRETE PAD SHALL BE 58-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)



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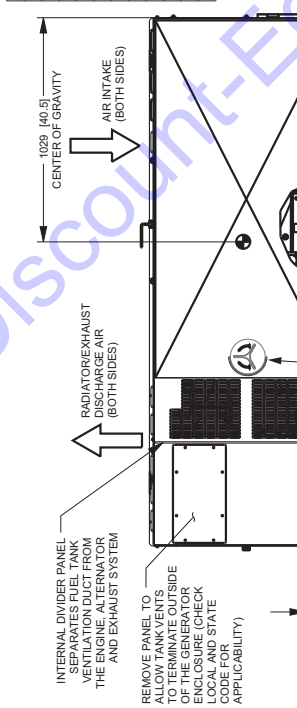
Installation Drawings

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

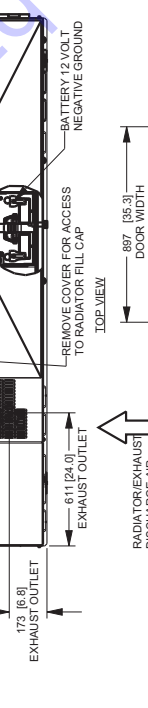
- NOTES:
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1104 (47") WIDE X 2729 (108") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
 2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT AND APPLICABLE NATIONAL, 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 UNIT.
 4. REMOVE THE REAR TANK AND 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 (20 VOLT AC (0.5 AMP MAX) CONNECTION)
-LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES
-CONNECTIONS THAT MAY CHANGE DUE TO UNIT OPTIONS.
-ENGINE SERVICE CONNECTIONS
 5. OIL DRAIN: 3/8" NPT
 6. EXHAUST OUTLET: 2" O.D.
 7. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND AIR FLOW THROUGH THE UNIT PER COOLING AIR FLOW.
 8. REFER TO OWNERS MANUAL FOR LISTINGS AND WARNINGS.
 9. MOUNTING BOLTS OR STUDS TO CONCRETE PAD SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)

SERVICE ITEM	2.2L
OIL FILL CAP	RIGHT 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
AIR CLEANER ELEMENT	RIGHT SIDE
FAN BELT	FRONT SIDE
BATTERY	LEFT SIDE

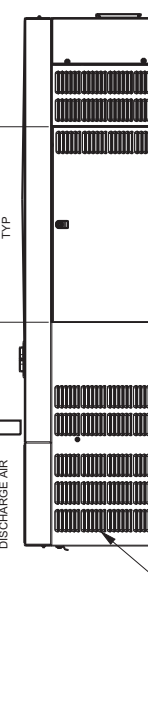
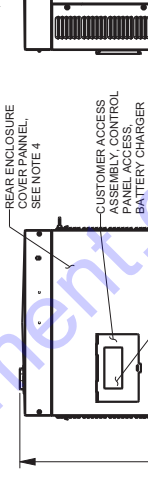
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS



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4. REMOVE THE REAR TANK AND 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 (20 VOLT AC (0.5 AMP MAX) CONNECTION)
-LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES
-CONNECTIONS THAT MAY CHANGE DUE TO UNIT OPTIONS.
-ENGINE SERVICE CONNECTIONS
5. OIL DRAIN: 3/8" NPT
6. EXHAUST OUTLET: 2" O.D.
7. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND AIR FLOW THROUGH THE UNIT PER COOLING AIR FLOW.
8. REFER TO OWNERS MANUAL FOR LISTINGS AND WARNINGS.
9. MOUNTING BOLTS OR STUDS TO CONCRETE PAD SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)



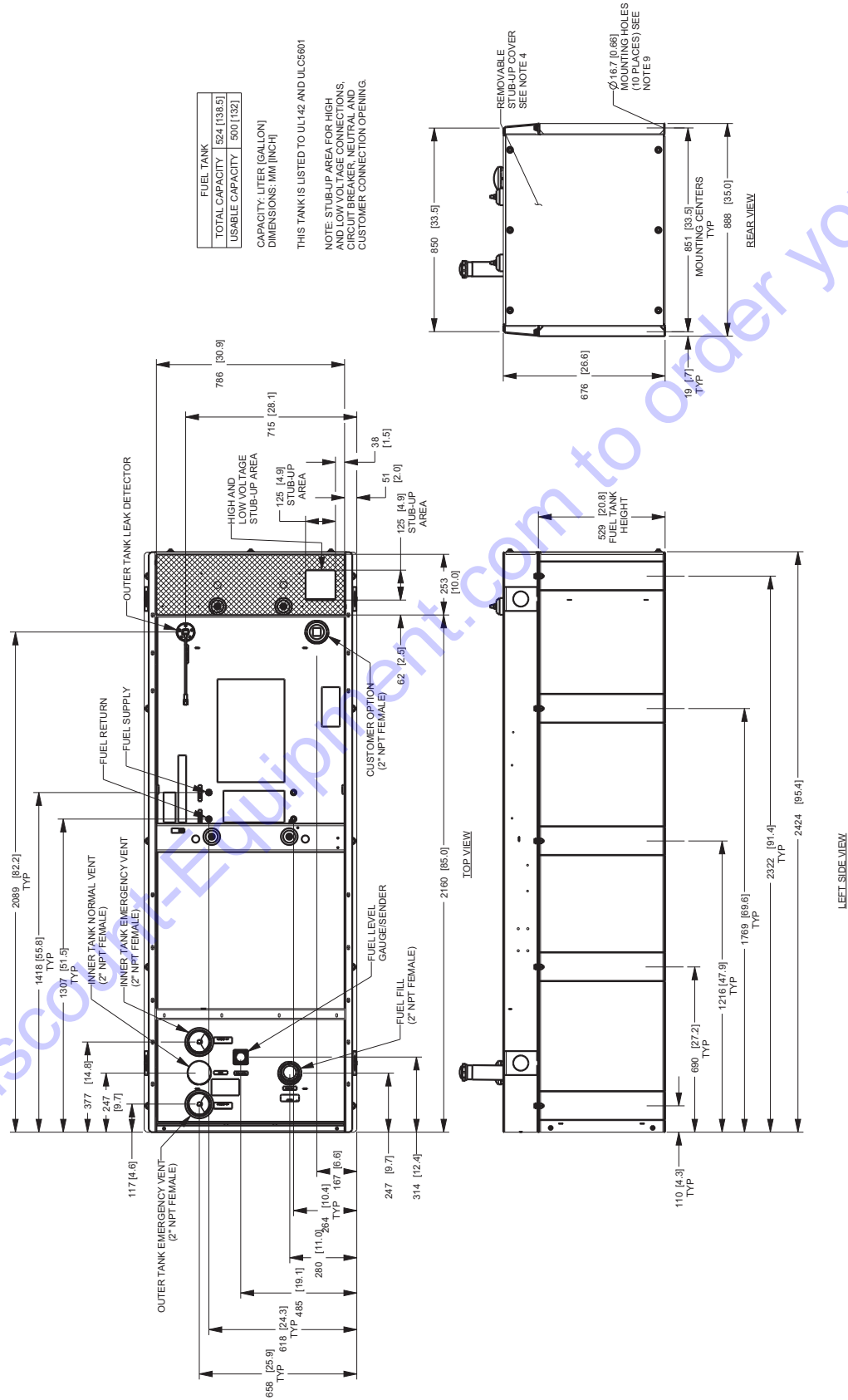
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-LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES
-CONNECTIONS THAT MAY CHANGE DUE TO UNIT OPTIONS.
-ENGINE SERVICE CONNECTIONS
5. OIL DRAIN: 3/8" NPT
6. EXHAUST OUTLET: 2" O.D.
7. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND AIR FLOW THROUGH THE UNIT PER COOLING AIR FLOW.
8. REFER TO OWNERS MANUAL FOR LISTINGS AND WARNINGS.
9. MOUNTING BOLTS OR STUDS TO CONCRETE PAD SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)



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



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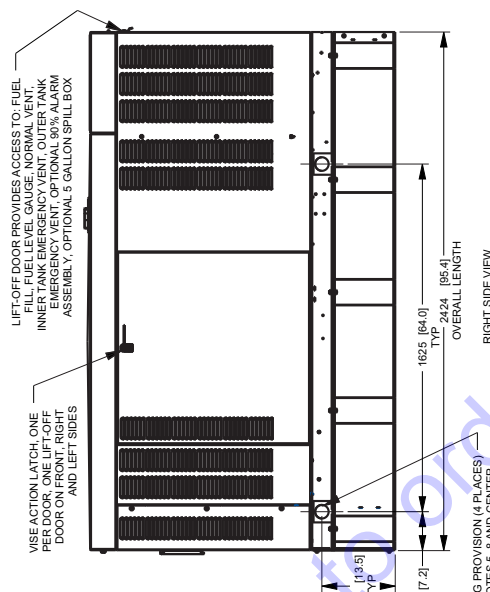
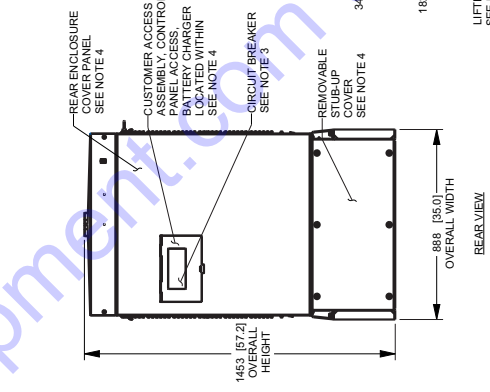
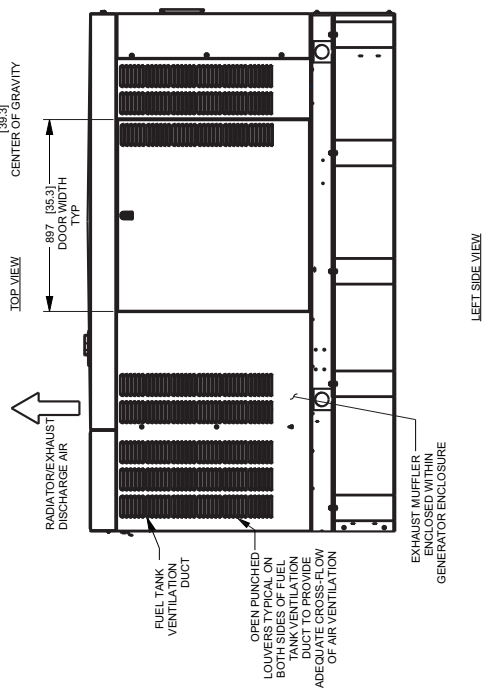
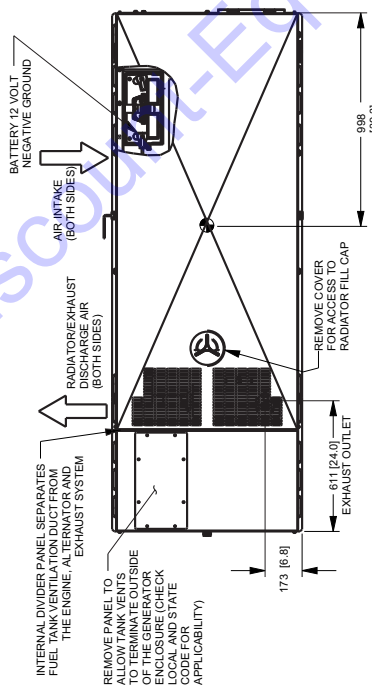
15 • 20 • 30 • 48 • 50 kW

Installation Drawings

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 FILTER	LEFT	WITH WOODEN SHIPPING SKID 1030 [23.5]	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.
OIL DRAIN HOSE	RIGHT	WEIGHT: KG (LBS)	3. SEE SPECIFICATION SHEET OR OWNERS MANUAL FOR BREAKER INFORMATION.
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 GENERATOR
RADIATOR FILL CAP ACCESS	ROOF		- HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
AIR CLEANER ELEMENT	FRONT		- LOW VOLTAGE CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES
MUFFLER	EITHER		5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
FAN BELT	EITHER		6. BATTERY POSITIVE CONNECTIONS
BATTERY	RIGHT		EXHAUST OUTLET; 2" O.D.

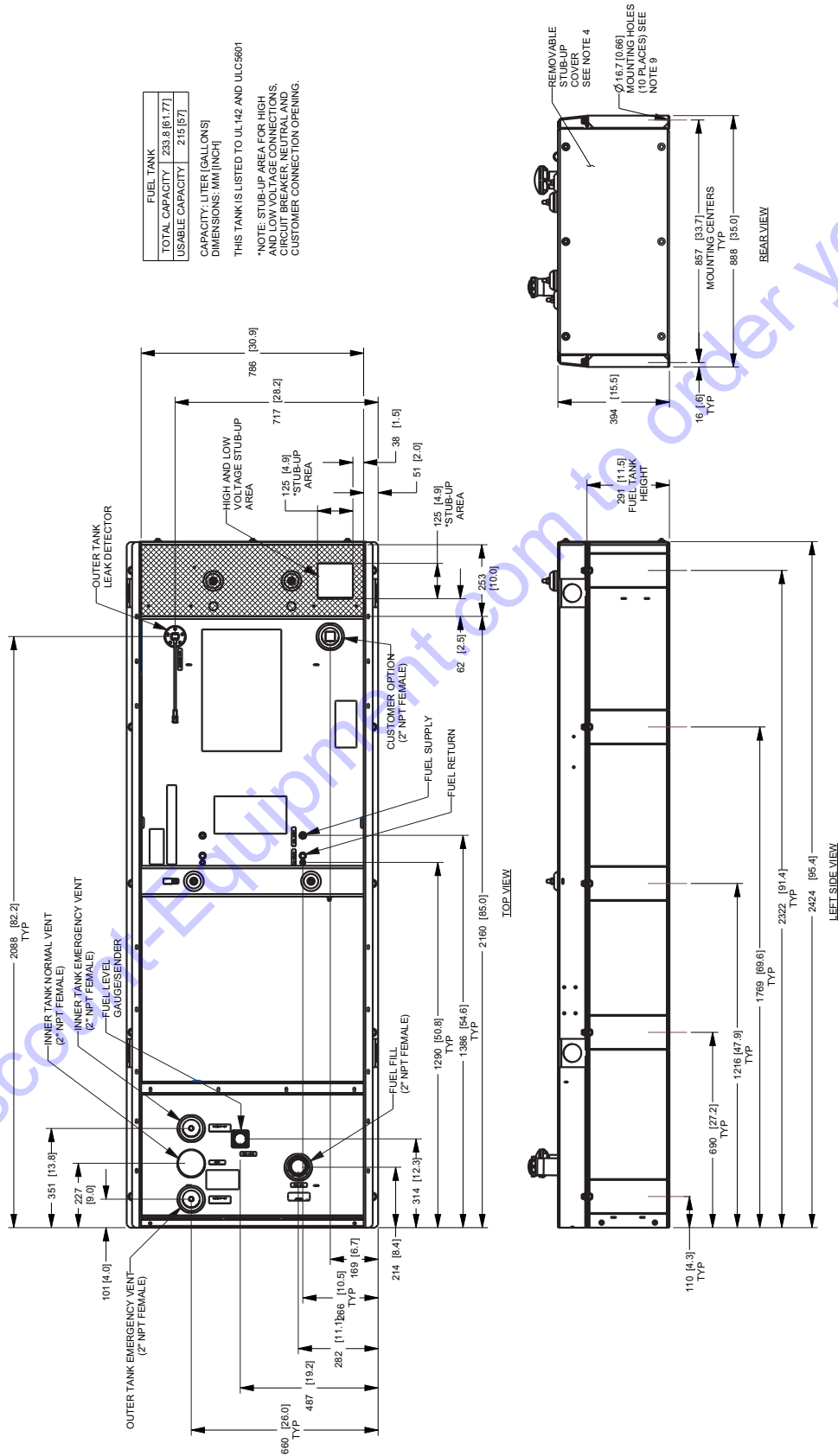
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS



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



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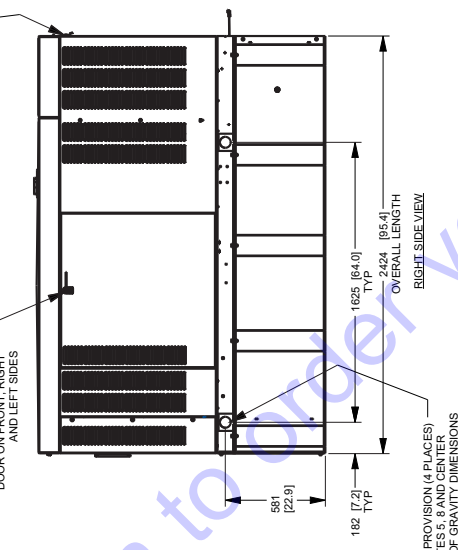
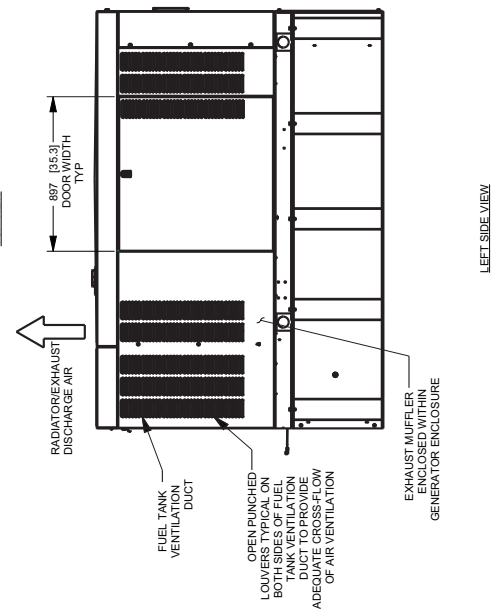
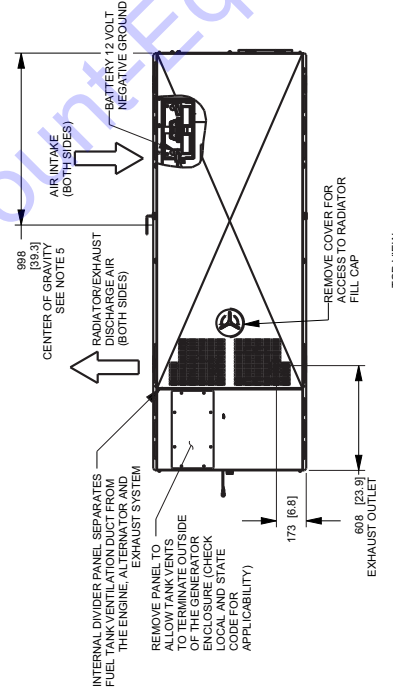
D3.3L G16 132 Gal Tank (1 of 2)

NOTES:

- MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1184 (47") WIDE X 2718 (107") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT.
- 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 OR LOCAL APPLICABLE CODES.
- CONTROL PANEL, CIRCUIT BREAKER INFORMATION:
 - SEE SPECIFICATION SHEET OR OWNERS MANUAL.
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
 - REAR TANK AND 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 CONNECTIONS INCLUDING TRANSFER SWITCH CONTROL WIRES
 - ENGINE SERVICE CONNECTIONS
 - OIL DRAIN: 3/8" NPT
 - EXHAUST OUTLET: 2" O.D.
- BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND AIR FLOW MUST BE MAINTAINED THROUGHOUT TO PREVENT OVERHEATING AND COOLING AIR FLOW.
- REFERENCE OWNERS MANUAL FOR MOUNTING DIMENSIONS.
- MOUNTING BOLTS OR STUDS TO CONCRETE PAD SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)

SERVICE ITEM	D3.3L	WEIGHT DATA WITH EMPTY BASE TANK (SEE NOTE 5)
OIL FILL CAP	LEFT	GENERATOR AS SHOWN 102 [24.29]
OIL DIP STICK	LEFT	WITH WOODEN SHIPPING SKID 147 [25.29]
OIL FILTER	LEFT	
OIL DRAIN HOSE	RIGHT	WEIGHT: KG (LBS)
RADIATOR DRAIN HOSE	RIGHT	DIMENSIONS: MM (INCH)
COOLANT RECOVERY BOTTLE	RIGHT	
RADIATOR FILL CAP ACCESS	ROOF	
AIR CLEANER ELEMENT	RIGHT	
MUFFLER	FRONT	
BATTERY	EITHER	
	RIGHT	

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS



LIFTING PROVISION (4 PLACES) SEE NOTES 5, 8 AND CENTER OF GRAVITY DIMENSIONS

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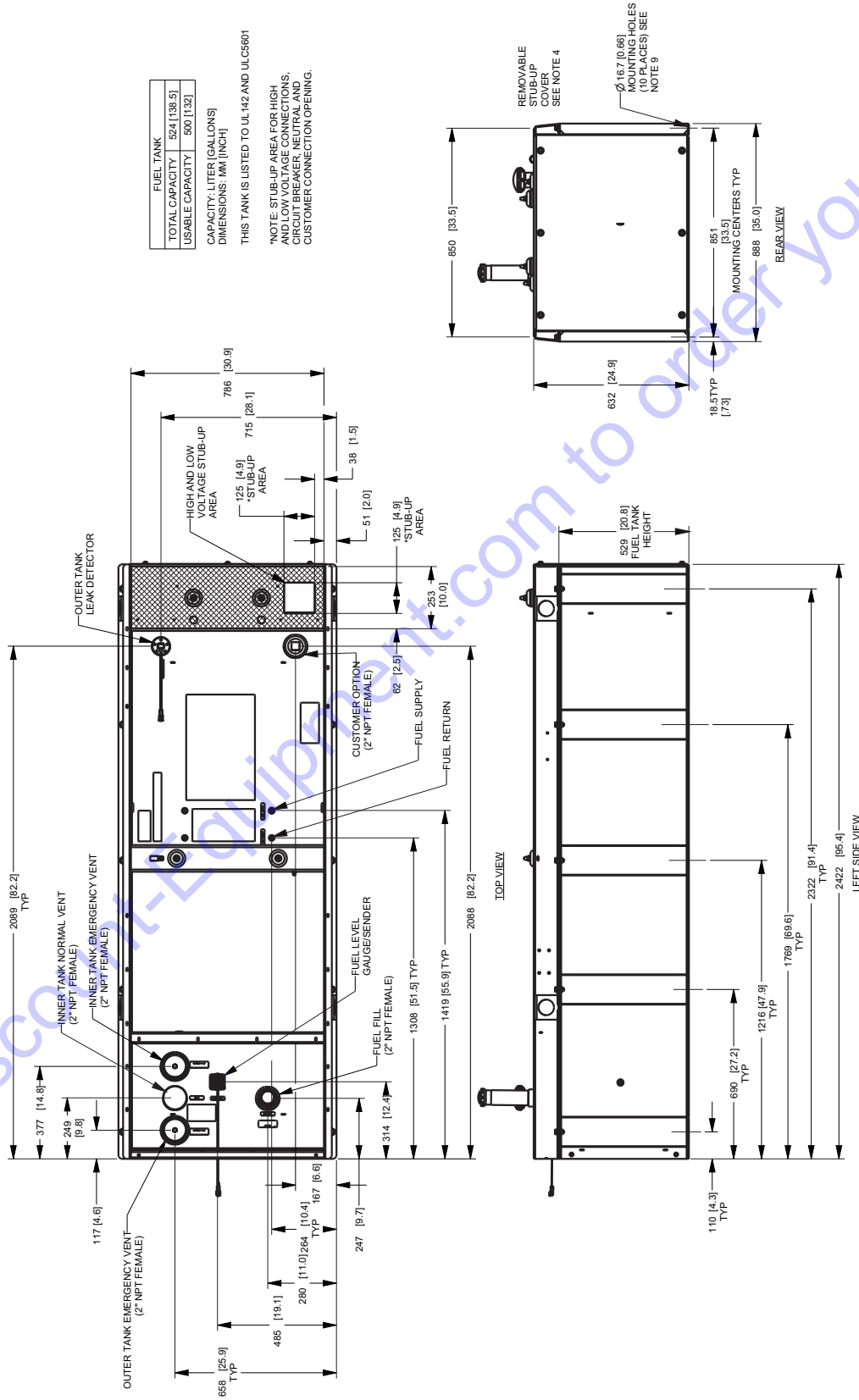
D3.3L G16 132 Gal Tank (2 of 2)

FUEL TANK	
TOTAL CAPACITY	624 [138.5]
USABLE CAPACITY	500 [132]

CAPACITY, LITER (GALLONS)
DIMENSIONS: MM (INCH)

THIS TANK IS LISTED TO UL 142 AND ULCS601

*NOTE: STUB-UP AREA FOR HIGH AND LOW VOLTAGE CONNECTIONS, CIRCUIT BREAKER, NEUTRAL AND CUSTOMER CONNECTION OPENING.



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Model #	Product	Description
G0071690	Mobile Link® 4G LTE Cellular Accessory	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. Available in the U.S. only.
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.
G007000-0 (50 Amps) G007006-0 (100 Amps)	Smart Management Module	Smart Management Modules (SMM) optimize the performance of a standby generator. They manage large electrical loads upon startup and load shed to aid in recovery when overloaded. In many cases, SMMs can reduce the overall size and cost of the system.
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, and safe for both metal and plastic surfaces and is superior in rinsability.
A0000019001	All Surface Protectant	All Surface Protectant for vinyl, rubber, and plastics creates a barrier that seals & protects surfaces from water and UV rays while renewing the look of the surface.

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