



Building Permit Application
City of Portland, Oregon - Bureau of Development Services

1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7310 • TTY 503-823-6868 • www.portlandoregon.gov/bds

PT 31
 Central Plaza
 12-168119-co

Type of work

New construction Addition/alteration/replacement
 Demolition Other:

Category of construction

1 & 2 family dwelling Commercial/industrial Accessory building
 Multifamily Master builder Other: *Telecomm*

Job site information and location

Job no.: Job address: *337 SW Alder Street*
 City/State/ZIP: *Portland, OR 97204*
 Suite/bldg./apt. no.: Project name: *AT&T*
 Cross street/directions to job site: *Downtown (SW Washington St) to SW 4th Ave.*
 Subdivision: *INIE34CD* Lot no. *900* Tax map/parcel no. *INIE34CD 900*

Description of work

Add (1) EXPS cabinet (8) Cordex (4) Rack BBU Cabinets and (98) Marathon batteries (1) 50KW Generator fuel cell, ~~dumping dampers~~ (anchor)

Provide RS Permit no.

Property owner **Tenant**

Name: *Mark Central Plaza* E-mail:
 Address: *111 SW Columbia Street #1380*
 City/State/ZIP: *Portland, OR 97201-5845*
 Phone: FAX:
 Owner installation: This installation is being made on property that I own, which is not intended for sale, lease, rent, or exchange.
 Owner signature: Date:

Contractor

Business name: *Battery Power Systems* E-mail:
 Address: *201 Frontage Road North #4*
 City/State/ZIP: *Pacific, WA 98047*
 Phone: *253-931-8222* FAX:
 CCB lic. no. *156420*

Authorized signature: _____
 Print name: *James Clifford* Date:

Applicant **Contact Person**

Business name: *Velocitel/AT&T*
 Contact name: *Dennis Ditterick*
 Address: *4004 Kruse Way Place, #220*
 City/State/ZIP: *Lake Oswego, OR 97035*
 Phone: *971-222-9924* FAX:
 E-mail: *D.Ditterick@Velocitel.net*

Authorized signature: _____
 Print name: Date:

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Office Use Only

Permit no.:
 Date received: *08-02-12*
 By: *[Signature]*

Required Data: One and Two Family Dwelling

Permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation:	
Number of bedrooms:	
Number of bathrooms:	
Total number of floors:	
New dwelling area:	square feet
Garage/carport area:	square feet
Covered porch area:	square feet
Deck area:	square feet
Other structure area:	square feet

Required Data: Commercial Use

Permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation:	<i>\$90,000.00</i>
Existing building area:	square feet
New building area:	square feet
Number of stories:	
Type of construction:	<i>Telecomm</i>
Occupancy groups	
Existing:	<i>77 sq ft</i>
New:	

Notice

All contractors and subcontractors are required to be licensed with the Oregon Construction Contractors Board under ORS 701 and may be required to be licensed in the jurisdiction in which work is being performed. If the applicant is exempt from licensing, the following reasons apply.

Statement of Fact: I certify that the facts and information set forth in this application are true and complete to the best of my knowledge. I understand that any falsification, misrepresentation or omission of fact (whether intentional or not) in this application or any other required document, as well as any misleading statement or omission, may be cause for revocation of permit and/or certificate of occupancy, regardless of how or when discovered.

Building Permit Fees*

Please refer to fee schedule

Fees due upon application	
Amount received	
Date received	

Residential Combo permit subcontractor submittals only can be faxed to 503-823-7693.

JUBITZ FLEET SERVICES

CORI JOHNSON
Co-General Manager

33 NE Middlefield Road
P.O. Box 11264
Portland, OR 97211
www.jubitzfleetservices.com

(503) 345-0306 Phone
(503) 240-5840 Fax
cori.johnson@jubitiz.com

SPECIALISTS IN

- *CARDLOCK*
- *MOBILE REFUELING*
- *FUEL MANAGEMENT*



Jubitz Mobile Refueling On-site Fueling and Spill Prevention, Spill Containment, Key Procedures and Clean-up Procedures

Jubitz Mobile Refueling
24/7 503-519-8583
For fueling diesel and gas

RECEIVED
OCT 26 2012
BDS
DOCUMENT SERVICES

Pre-Trip Inspection

Prior to leaving the Jubitz yard, the Mobile Refueling Driver (Driver) will complete a full pre-trip inspection of the vehicle they will be driving. This inspection will include checks related to vehicle safety, mechanical systems and tank/fueling systems including but not limited to condition of fuel nozzles, hoses, integrity of the tank and plumbing. They will also verify that they have the appropriate spill clean up kits on board.

Onsite Fueling and Spill Prevention Procedures

The following fueling procedures are designed to ensure fuel is dispensed in a safe manner that reduces the likelihood of leaks or spills.

1. On arrival at the customer's site, the Driver will check in with required personnel if required.
2. During fueling, the driver will not leave the nozzle unattended at any time. All nozzles are equipped with automatic shutoff sensors, but in case this was to fail, the driver would be there to stop the fueling.
3. The driver will not fill any tank past the bottom of the neck, so as to prevent a spill should the fuel expand in warm weather, or be parked on a hill.
4. The driver will immediately clean up any drips or small spills on the ground or on the side of the tank with an absorbent pad or rag.
5. The driver will park the fuel truck in such a way as to not impede any movement of vehicles during the time they are at the site.
6. Once all vehicles have been fueled, the driver will print a fueling receipt. The receipt will be left in an area designated by the customer
7. The driver will not smoke or use smokeless tobacco products at **any** time while at the site.

Spill Containment and Clean up Procedures

All spill or leaks are serious no matter what the size. It is imperative that they be dealt with IMMEDIATELY and in the procedures for small and large spills are set out below. Spill kits will be provided by Jubitz Corporation and loaded on the fueling trucks at all times so they are readily available should a spill occur.

Customer Key Procedure

Keys from customers are kept in a lock box at Jubitz in the Driver's office. Customer's keys are only taken from the lock box when indicated on the Driver's route sheet that one is needed. At the end of the shift, the Driver is to put the customer key back in the box.

Number of keys received: _____

Keys tagged: _____

Date received: _____

Received by: _____

Jubitz Mobile Refueling On-site Fueling and Spill Prevention, Spill Containment, Key Procedures and Clean-up Procedures

Small Spill – A small spill is defined as a situation where fuel is spilled on the ground, but where the driver is able to contain it before it gets anywhere near a catch basin, and is able to adequately clean it up with the spill kit on board the truck. A small spill would generally be less than one gallon. In the case of a small spill, the procedures are as follows:

1. Confirm the source of the spill and prevent any further spill.
2. Prevent any fuel from entering a Catch basin using absorbent spill containment rolls and absorbent pads that are included in the spill kit your vehicle.
3. Immediately inform Jubitz Mobile Refueling General Manager of the spill and the measures taken to clean it up. If necessary, the General Manager will come to the site immediately to inspect the situation.
4. The General Manager will decide if the situation has been properly handled, and if so, General Manager will notify the customer of the incident, the following business day.
5. If the situation is not handled to the satisfaction of the Supervisor or General Manager, further action will be taken until they are satisfied.

Large Spill – A large spill is any spill that is of sufficient quantity as to be running toward and pooling at a catch basin or drainage point. Typically this type of spill will be of a size that the Driver will not be able to clean it up by them self. Procedures for handling a large spill are as follows:

1. Confirm the source of the spill and prevent any further spill.
2. Prevent any fuel from entering a Catch basin using absorbent spill containment rolls and absorbent pads that are included in the spill kit your vehicle.
3. Inform the Jubitz General Manager (from the following list) as soon as the spill is contained. The driver is to remain at the site until released by the Jubitz General Manager or Customer Spill Response Representative:

Co-General Manager
24/7 On-Call

Cori Johnson
Mobile Dispatch

503-593-5989
503-519-8583

4. Jubitz General Manager will immediately call one of the following Emergency Responders and arrange to have the spill cleaned up immediately and will call the customer contact.

Foss Environmental
NRC Environmental
MRP Services

503-283-1150
800-337-7455
503-283-2451

3404.2.7.5.2

Arson

Storage of Flammable

34,04

QTT equipment on edge of pad
3 feet away from pad
1 foot away

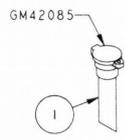
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~~Fire~~ Fire

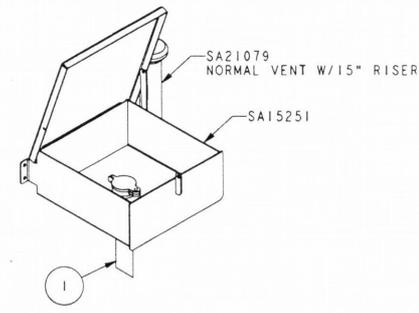
Note Decara - Chief of
inside Building

Erin Janssens

FILL PIPE EXTENSION KIT			
KIT NO.	ITEM 1	TANK HEIGHT	
GM58956-KA1	GM58956-TA1	SA29390	203.2
GM58956-KA2	GM58956-TA2	SA29391	228.6
GM58956-KA3	GM58956-TA3	SA29392	254.0
GM58956-KA4	GM58956-TA4	SA29393	279.4
GM58956-KA5	GM58956-TA5	SA29394	304.8
GM58956-KA6	GM58956-TA6	SA29395	330.2
GM58956-KA7	GM58956-TA7	SA29396	355.6
GM58956-KA8	GM58956-TA8	SA29397	381.0
GM58956-KA9	GM58956-TA9	SA29398	406.4
GM58956-KA10	GM58956-TA10	SA29399	431.8
GM58956-KA11	GM58956-TA11	SA29400	457.2
GM58956-KA12	GM58956-TA12	SA29401	482.6
GM58956-KA13	GM58956-TA13	SA29402	508.0
GM58956-KA14	GM58956-TA14	SA29403	533.4
GM58956-KA15	GM58956-TA15	SA29404	558.8
GM58956-KA16	GM58956-TA16	SA29405	584.2
GM58956-KA17	GM58956-TA17	SA29406	609.6
GM58956-KA18	GM58956-TA18	SA29407	635.0
GM58956-KA19	GM58956-TA19	SA29408	660.4
GM58956-KA20	GM58956-TA20	SA29409	685.8
GM58956-KA21	GM58956-TA21	SA29410	711.2
GM58956-KA22	GM58956-TA22	SA29411	736.6
GM58956-KA23	GM58956-TA23	SA29412	762.0
GM58956-KA24	GM58956-TA24	SA29413	787.4
GM58956-KA25	GM58956-TA25	SA29414	812.8
GM58956-KA26	GM58956-TA26	SA29415	838.2
GM58956-KA27	GM58956-TA27	SA29416	863.6
GM58956-KA28	GM58956-TA28	SA29417	889.0
GM58956-KA29	GM58956-TA29	SA29418	914.4
GM58956-KA66	GM58956-TA66	SA35417	177.8



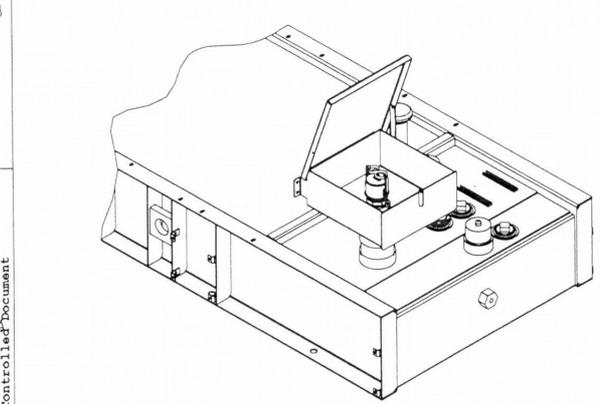
5 GALLON SPILL W/FILL PIPE EXTENSION KIT			
KIT NO.	ITEM 1	TANK HEIGHT	
GM58956-KA30	GM58956-TA30	SA29390	203.2
GM58956-KA31	GM58956-TA31	SA29391	228.6
GM58956-KA32	GM58956-TA32	SA29392	254.0
GM58956-KA33	GM58956-TA33	SA29393	279.4
GM58956-KA34	GM58956-TA34	SA29394	304.8
GM58956-KA35	GM58956-TA35	SA29395	330.2
GM58956-KA36	GM58956-TA36	SA29396	355.6
GM58956-KA37	GM58956-TA37	SA29397	381.0
GM58956-KA38	GM58956-TA38	SA29398	406.4
GM58956-KA39	GM58956-TA39	SA29399	431.8
GM58956-KA40	GM58956-TA40	SA29400	457.2
GM58956-KA41	GM58956-TA41	SA29401	482.6
GM58956-KA42	GM58956-TA42	SA29402	508.0
GM58956-KA43	GM58956-TA43	SA29403	533.4
GM58956-KA44	GM58956-TA44	SA29404	558.8
GM58956-KA45	GM58956-TA45	SA29405	584.2
GM58956-KA46	GM58956-TA46	SA29406	609.6
GM58956-KA47	GM58956-TA47	SA29407	635.0
GM58956-KA48	GM58956-TA48	SA29408	660.4
GM58956-KA49	GM58956-TA49	SA29409	685.8
GM58956-KA50	GM58956-TA50	SA29410	711.2
GM58956-KA51	GM58956-TA51	SA29411	736.6
GM58956-KA52	GM58956-TA52	SA29412	762.0
GM58956-KA53	GM58956-TA53	SA29413	787.4
GM58956-KA54	GM58956-TA54	SA29414	812.8
GM58956-KA55	GM58956-TA55	SA29415	838.2
GM58956-KA56	GM58956-TA56	SA29416	863.6
GM58956-KA57	GM58956-TA57	SA29417	889.0
GM58956-KA58	GM58956-TA58	SA29418	914.4
GM58956-KA68	GM58956-TA68	SA35417	177.8



KIT NUMBER GM58956-KA59/GM58956-TA59 5 GALLON SPILL CONTAINMENT			
ITEM	PART NO	QTY	DESCRIPTION
1	X-219-9	1	FITTING, PIPE NIPPLE
2	SA15251	1	FILL/SPILL, 5 GALLON
3	SA21079	1	VENT, NORMAL 2" W/15" RISER

THIS IS AN AUTOMATED TABLE ALL CHANGES TO THIS TABLE MUST BE MADE IN THE FAMILY TABLE OF THE GENERIC MODEL.

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KIT NUMBER GM58956-KA60/GM58956-TA60 5 GALLON SPILL CONTAINMENT W/95% SHUTOFF FOR TANK HEIGHTS 203.2 (8 IN) TO 406.4 (16IN) TALL			
ITEM	PART NO	QTY	DESCRIPTION
1	SA21073	1	PIPE NIPPLE, 4" NPT
2	SA30119	1	2" FILL VALVE
3	SA15251	1	FILL/SPILL, 5 GALLON
4	X-219-9	1	FITTING, PIPE NIPPLE
5	GM42350	1	ADAPTER, FUEL CAP
6	GM42349	1	CAP, FUEL
7	SA21079	1	VENT, NORMAL 2" W/15" RISER

KIT NUMBER GM58956-KA61/GM58956-TA61 5 GALLON SPILL CONTAINMENT W/95% SHUTOFF FOR TANK HEIGHTS GREATER THAN 406.4 (16IN) TALL			
ITEM	PART NO	QTY	DESCRIPTION
1	SA21073	1	PIPE NIPPLE, 4" NPT
2	SA30120	1	2" FILL VALVE
3	SA15251	1	FILL/SPILL, 5 GALLON
4	X-219-9	1	FITTING, PIPE NIPPLE
5	GM42350	1	ADAPTER, FUEL CAP
6	GM42349	1	CAP, FUEL
7	SA21079	1	VENT, NORMAL 2" W/15" RISER

06/06/2011 Controlled Document

5 GALLON AND 7 GALLON SPILL CONTAINMENT KITS

REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED: 1) DIMENSIONS ARE IN MILLIMETERS 2) TOLERANCES ARE: 3) SURFACE FINISH	KOHLER CO. METRIC PRO-ENGINEERING POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.
A	2-23-09	-TA KIT NUMBERS ADDED TO ALL CHARTS (GV10657)	CWF	1/8 & 0.25 1/16 & 1.5 ANGLES & 30°	
B	10-8-09	(C-8) GM58956-KA66 ADDED. (B,C-6) GM58956-KA68 ADDED. (88216)	GFR	MAX.	DWG. ASSY 5/7 GAL SPILL CONTAINMENT SCALE 0.15 (1:12) SHEET 1 OF 2 GM58956
C	2-19-10	SEE SHEET 2 OF 2 (88990-2)	JB2		
APPROVALS			DATE		
DRAWN			CWF	6-13-08	
CHECKED			DEF	6-13-08	
APPROVED			DEF	6-13-08	

8 7 6 5 4 3 2 1

KIT NUMBER GM58956-KA62/GM58956-TA62
7 GALLON SPILL CONTAINMENT

ITEM	PART NO	QTY	DESCRIPTION
1	SA10284	1	PIPE NIPPLE, 4" NPT
2	SA11051	1	MANHOLE, 7 GAL FILL PORT W/SPILL CONTAINMENT
3	SA21079	1	VENT, NORMAL 2" W/15" RISER

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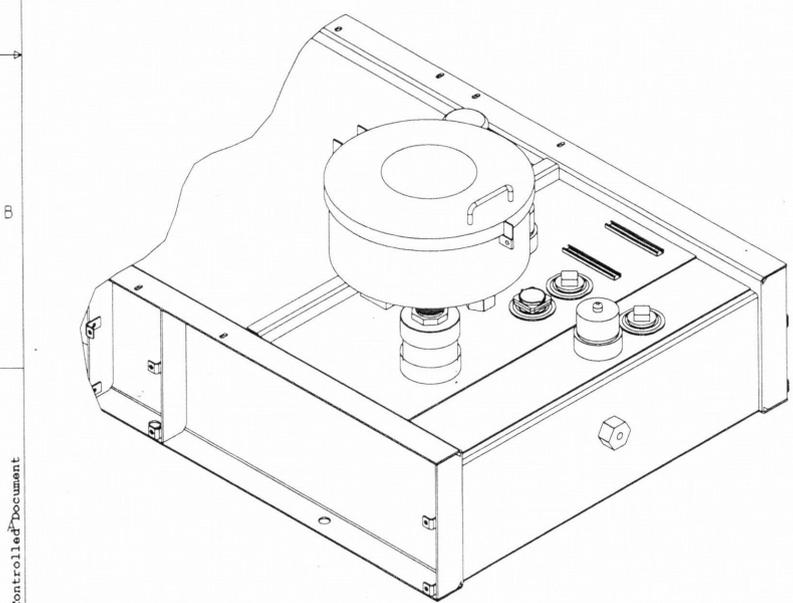
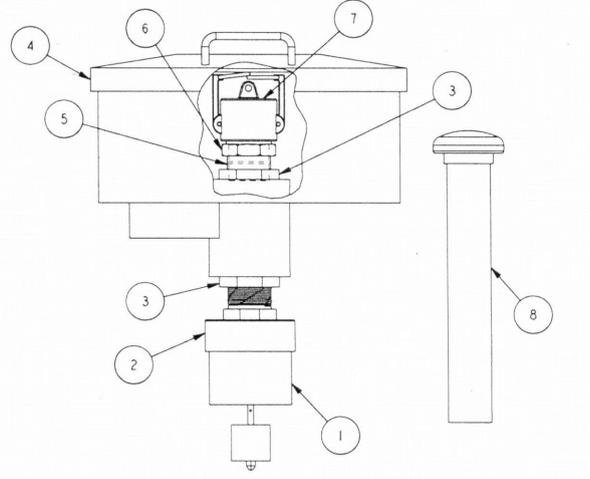
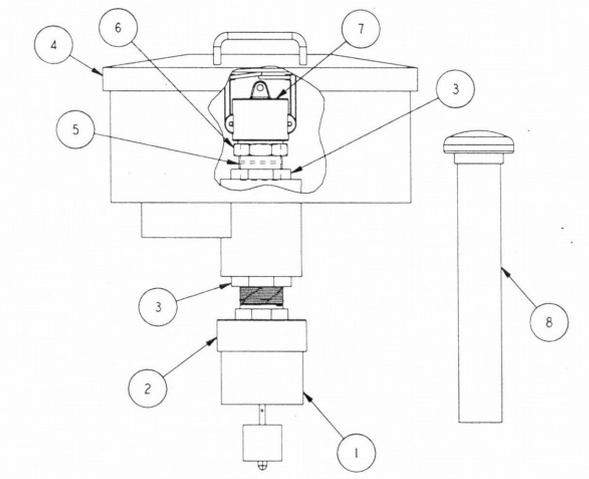
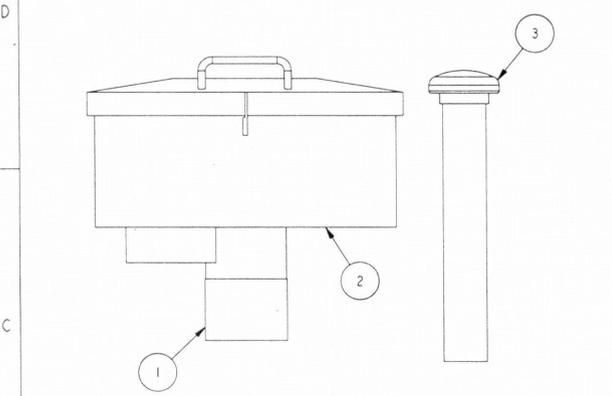
KIT NUMBER GM58956-KA63/GM58956-TA63
7 GALLON SPILL CONTAINMENT W/95% SHUTOFF
FOR TANK HEIGHTS 203.2 (8 IN) TO 406.4 (16 IN)

ITEM	PART NO	QTY	DESCRIPTION
1	SA21073	1	PIPE NIPPLE, 4" NPT
2	SA30119	1	2" FILL VALVE
3	SA10290	2	BUSHING, 4" X 2"
4	SA11051	1	MANHOLE, 7 GAL FILL PORT W/SPILL CONTAINMENT
5	X-219-9	1	FITTING, PIPE NIPPLE
6	GM42350	1	ADAPTER, FUEL CAP
7	GM42349	1	CAP, FUEL
8	SA21079	1	VENT, NORMAL 2" W/15" RISER

8 7 6 5 4 3 2 1

KIT NUMBER GM58956-KA64/GM58956-TA64
7 GALLON SPILL CONTAINMENT W/95% SHUTOFF
FOR TANK HEIGHTS GREATER THAN 406.4 (16 IN)

ITEM	PART NO	QTY	DESCRIPTION
1	SA21073	1	PIPE NIPPLE, 4" NPT
2	SA30120	1	2" FILL VALVE
3	SA10290	2	BUSHING, 4" X 2"
4	SA11051	1	MANHOLE, 7 GAL FILL PORT W/SPILL CONTAINMENT
5	X-219-9	1	FITTING, PIPE NIPPLE
6	GM42350	1	ADAPTER, FUEL CAP
7	GM42349	1	CAP, FUEL
8	SA21079	1	VENT, NORMAL 2" W/15" RISER



KIT NUMBER GM58956-KA65/GM58956-TA65
CONTAINMENT EXTENSION

NOTE: KIT DESIGNED FOR SLOPED TOP TANKS TO REPLACE PIPE NIPPLE, 4" NPT, IN SPILL CONTAINMENT KITS W/ 95% SHUTOFF VALVE

ITEM	PART NO	QTY	DESCRIPTION
1	X-549-16	1	FITTING, PIPE NIPPLE

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5 GALLON AND 7 GALLON SPILL CONTAINMENT KITS

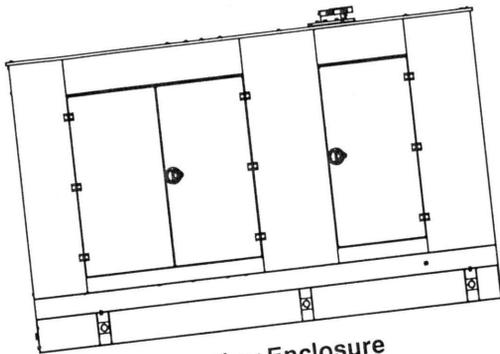
REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED: 1) DIMENSIONS ARE IN MILLIMETERS 2) TOLERANCES ARE: FRA FRA & 1/16 DECIMALS .10 SURFACE FINISH ANGLES ± 0° 30' MAX.	TITLE
-	6-19-08	NEW DRAWING [GV10255]	CFW		KOHLER CO. METRIC PRO-E POWER SYSTEMS, KOHLER, WI, 53044 U.S.A. THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. DWG ASSY 5/7 GAL SPILL CONTAINMENT SCALE 0.30 (1/4" = 1") SHEET 2 of 2 GM58956
A	2-23-09	-TA KIT NUMBERS ADDED TO ALL CHARTS [GV10657]	CFW		
B	10-8-09	SEE SHEET 1 OF 2 [882161]	GFR		
C	2-19-10	[B-2] GM58956-KA65 & TA65 ADDED [88990-2]	JBZ		
APPROVALS		DATE			
DRAWN		DATE			
CHECKED		DATE			
APPROVED		DATE			

Industrial Generator Set Accessories

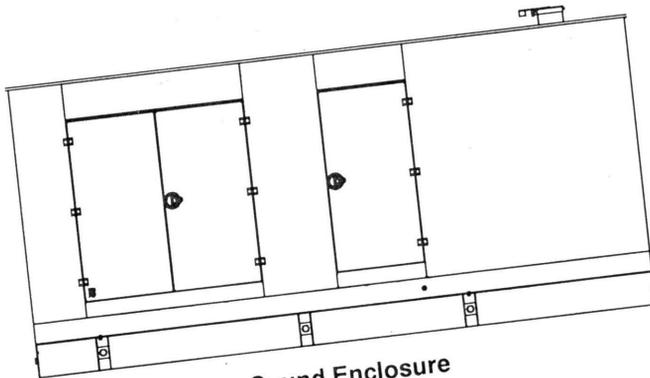
Weather/Sound Enclosure and Subbase Fuel Tank Package

KOHLER POWER SYSTEMS

ISO 9001
KOHLER POWER SYSTEMS
NATIONALLY REGISTERED



Weather Enclosure



Sound Enclosure

Applicable to the following:
500REOZVB
550/600REOZV

Weather Enclosure Features

- Internal-mounted critical silencer, flexible exhaust connector, and rain cap.
- Lift base or tank-mounted, steel construction with hinged and removable doors.
- Fade-, scratch-, and corrosion-resistant Kohler® cream beige powder-baked finish.
- Lockable, flush-mounted door latches.
- Air inlet louvers and damper reduce rain and snow entry.
- High wind bracing, 241 kph (150 mph).

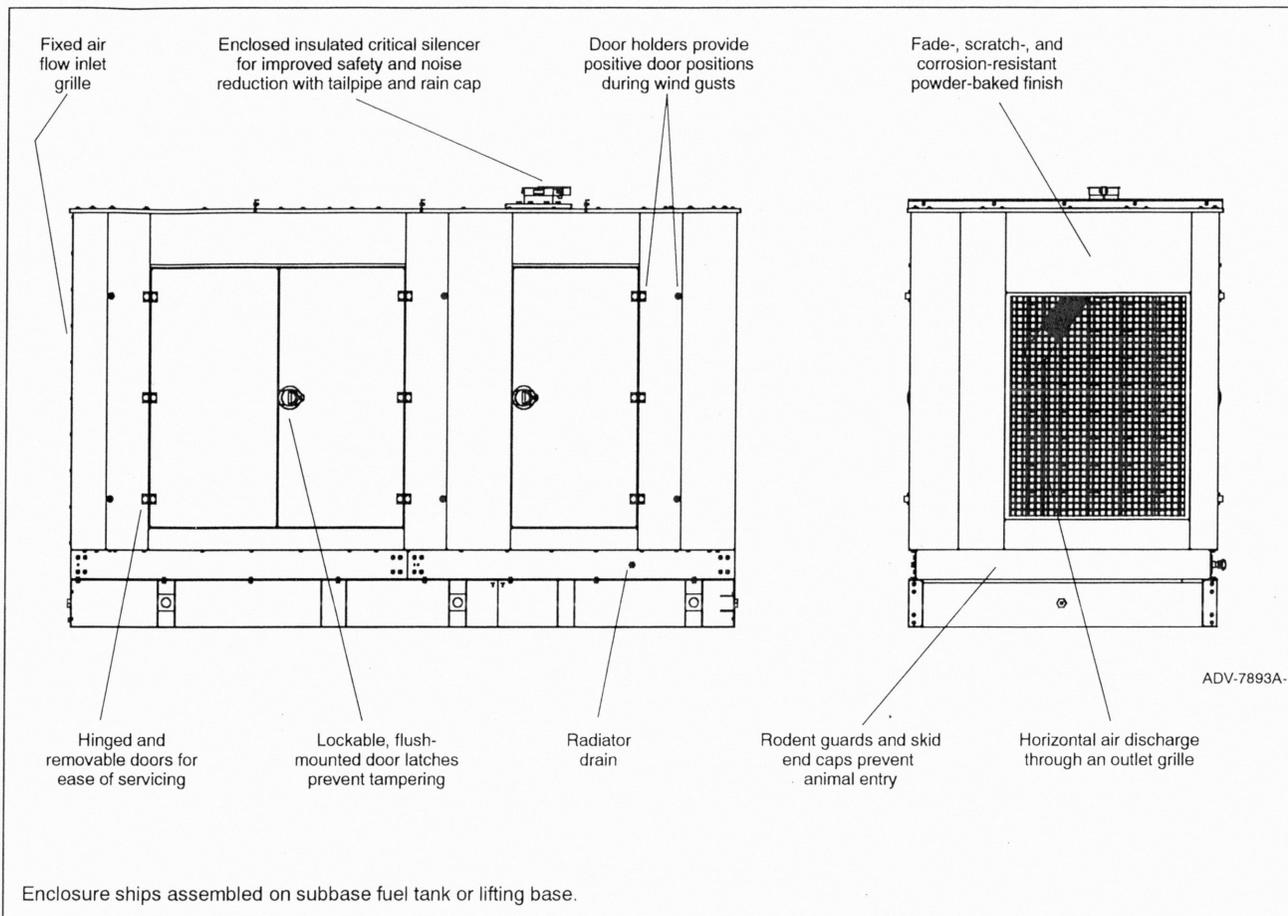
Sound Enclosure Features

- Includes all of the weather enclosure features with the addition of acoustic insulation material.
- Lift base or tank-mounted, steel or aluminum construction with hinged and removable doors. Aluminum enclosures recommended for high humidity and/or high salt/coastal regions.
- Vertical air outlet with 90 degree angles to redirect air and reduce noise.
- Acoustic insulation that meets UL 94 HF1 flammability classification.
- Uses acoustic insulation on enclosure structure.

Subbase Fuel Tank Features

- The above-ground rectangular secondary containment tank mounts directly to the generator set, below the generator set skid (subbase).
- Both the inner and outer tanks have emergency relief vents.
- Flexible fuel lines are provided with subbase fuel tank selection.
- The secondary containment tank's construction protects against fuel leaks or ruptures. The inner (primary) tank is sealed inside the outer (secondary) tank. The outer tank contains the fuel if the inner tank leaks or ruptures.

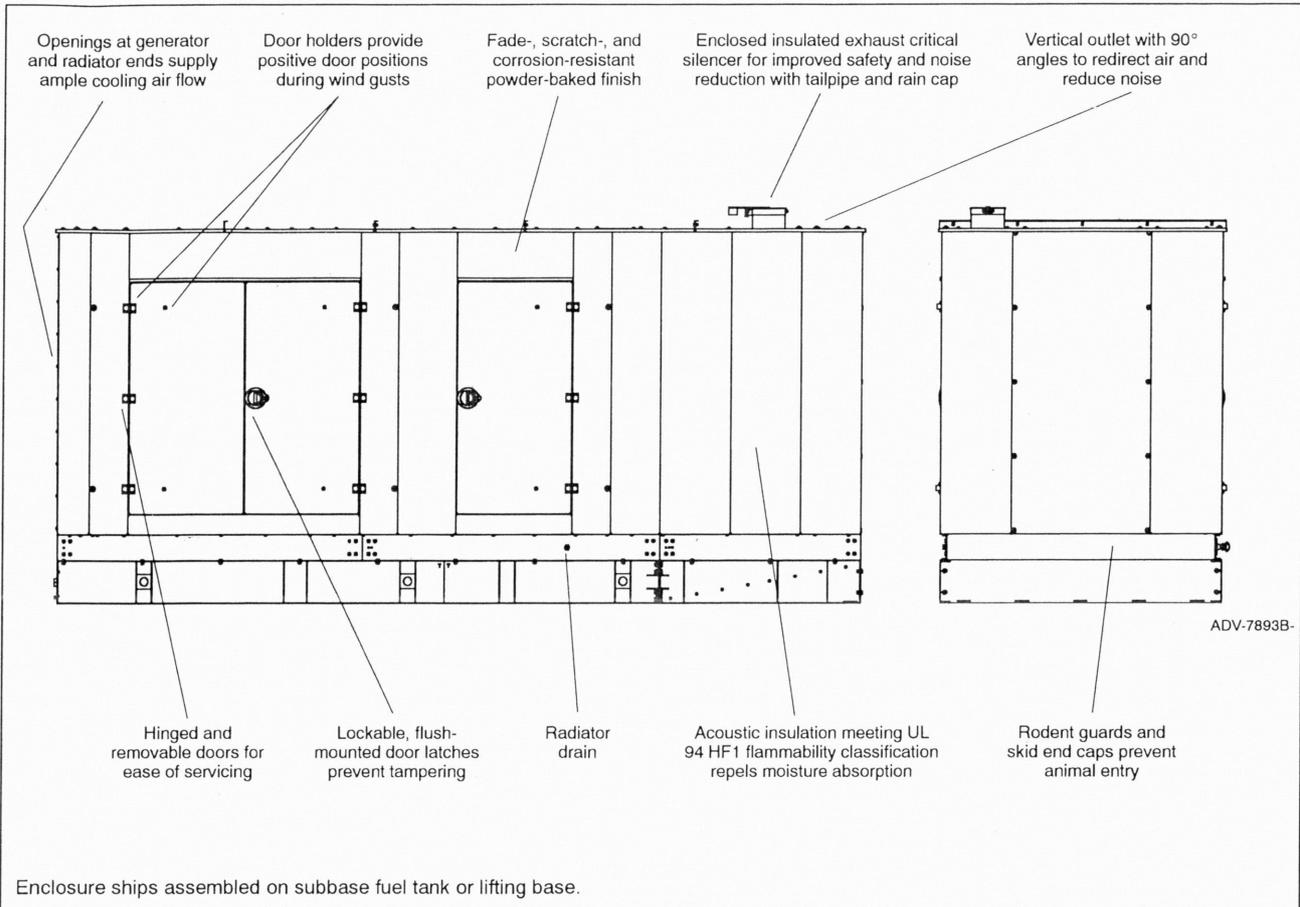
Weather Enclosure



Weather Enclosure Features

- Available in steel (14 gauge) panel, solid construction. Preassembled package offering dent resilient structure mounting directly to lift base or fuel tank.
- Powder-baked paint. Superior finish, durability, and appearance.
- Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
- Internal critical exhaust silencer. Offers maximum component life, operator safety, and includes rain shield and cap.
- Service access. Multi-personnel doors for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
- Cooling/Combustion Air Intake.
 - Weather protective designs using fixed air inlet louvers.
 - Sized for maximum cooling airflow.
- Cooling Air Discharge.
 - Weather protective design featuring horizontal air discharge.
 - Exhausts air through a punched air outlet grille.

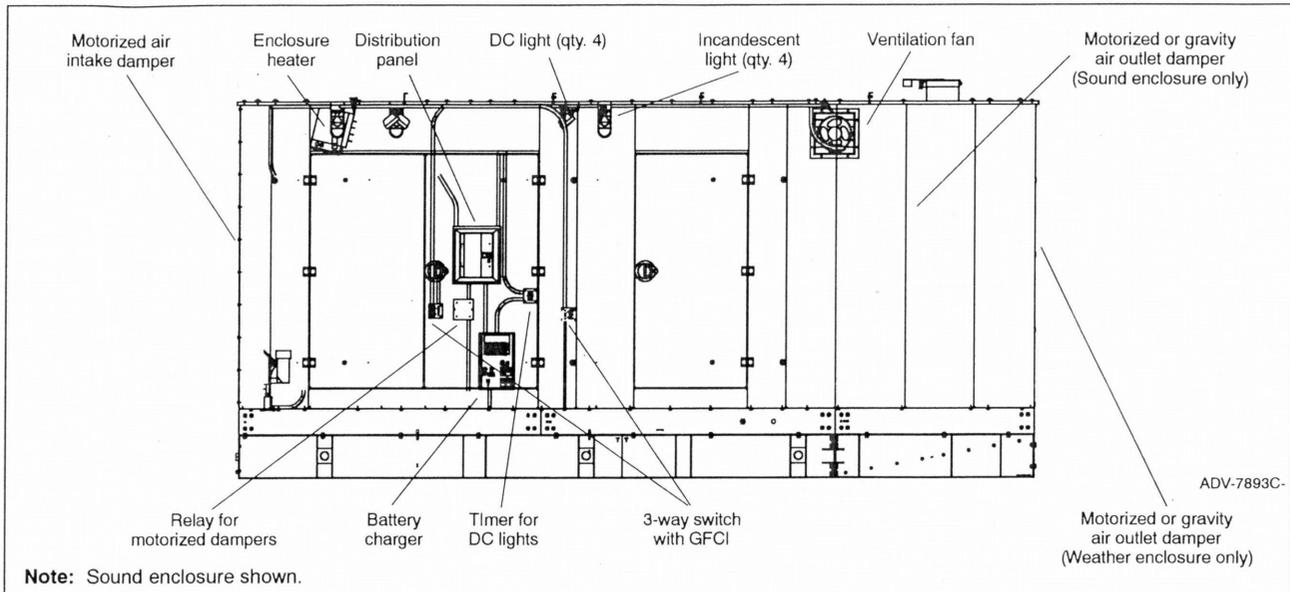
Sound Enclosure



Sound Enclosure Features

- Available in steel (14 gauge) or aluminum (3 mm [0.125 in.]) formed panel, solid construction. Preassembled package offering corrosion resistant (aluminum), dent resilient structure mounting directly to lift base or fuel tank.
- Powder-baked paint. Superior finish, durability, and appearance.
- Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
- Internal critical exhaust silencer. Offers maximum component life, operator safety, and includes rain shield and cap.
- Attenuated design. Acoustic insulation UL 94 HF1 listed for flame resistance.
- Service access. Multi-personnel doors for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
- Cooling/combustion air intake. Attenuated models offering weather protective designs using fixed air inlet louvers.
- Cooling air discharge. Attenuated models offering 90° vertical air outlet. Redirects cooling air up and above enclosures to reduce noise ambient.

Weather and Sound Enclosure



Weather and Sound Enclosure Options

Basic Electrical Package (BEP)

Distribution Panel/Load Center. Prewired AC power distribution of all factory-installed features including block heater, two GFCI-protected internal 120-volt service receptacles, internal lighting, and commercial grade wall switch. Load center powered by building source power and protected by a main circuit breaker, rated for 100 amps (single phase) or 125 amps (three phase) with capacity and circuit positions for future expansion. AC power distribution installed in accordance with NEC and all wiring within EMT thin wall conduit. Four incandescent or fluorescent lights located within UL-listed fixtures designed for wet locations.

- BEP, single-phase load center, 100 A, 120/240 VAC.
- BEP, three-phase load center, 125 A, 120/208/240 VAC.

Enclosure Heater

Heater, 5 kW Ceiling Mounted. Electrical utility heater prewired to load center internal to enclosure. Rated at 17100 Btu. Includes adjustable louvers offering down flow and horizontal air tuning, built-in thermostat with automatic fan delay controls.

- Heater, single phase at 240 VAC.
- Heater, three phase at 208 or 240 VAC.

DC Light Package

DC Light Package (DLP). Prewired DC light package offering an economical alternative light source within the enclosure, as a complement to the BEP or a source of light when AC power is not available. Battery drain limited with fuse protection and controlled through a 0-60 minute, spring-wound, no-hold timer.

Miscellaneous Package Options

- Battery Charger, Mounted.** Mounting and prewiring of DC output and AC input when optional BEP is selected. Battery charger located inside the enclosure and accessible through an access door.
- Block Heater with Junction Box.** Factory-supplied block heater prewired to a junction box providing a convenient location for the customer wiring of the block heater.

- Heater, single phase at 208 or 240 VAC.

Enclosure Design Options

- Aluminum Enclosure
- Steel Enclosure
- Panic Bar** for each latching door. Provides additional safety for individuals working on the generator set while inside the enclosure.

Motorized Variable Damper and Ventilation

- Ventilation Fan, 22.6 cm/min. (800 cfm) Wall Mount.** Direct drive 3-blade 305 mm (12 in.) aluminum propeller fan with automatic shutters, driven by a totally enclosed air-over motor housed within a corrosion-resistant housing. Remote thermostatically controlled over a temperature range of 27°C to 54°C (80°F to 130°F). All components are prewired and installed.
- Gravity Air Outlet Louver.** Louvers closed when unit is not running. After the unit starts, the forced cooling air opens the outlet louvers.

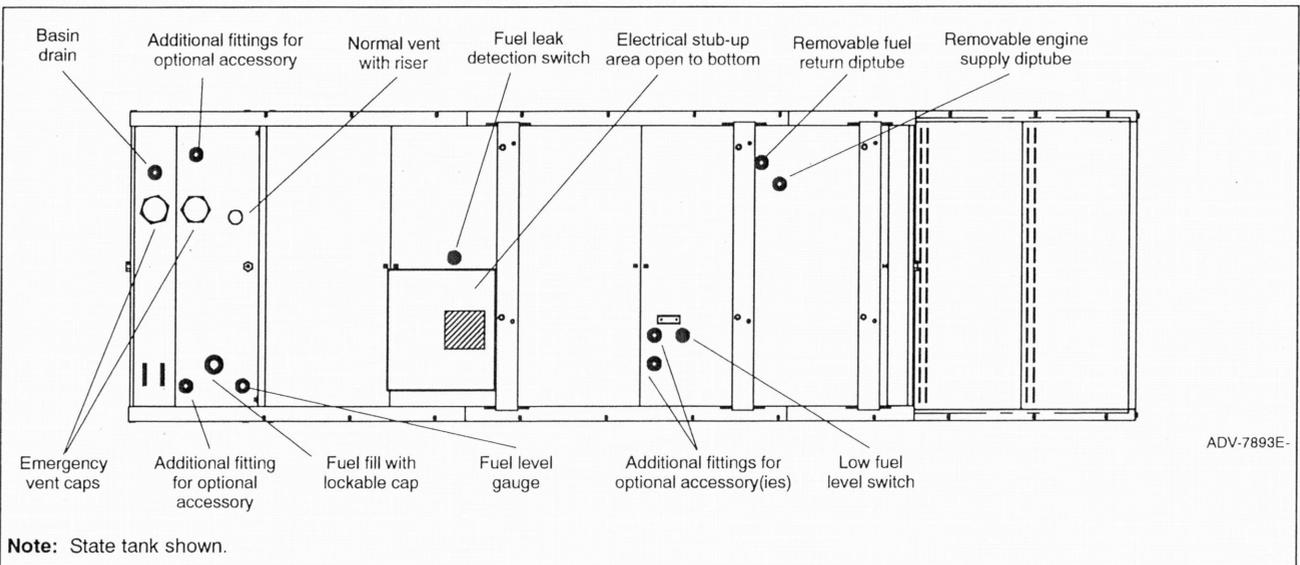
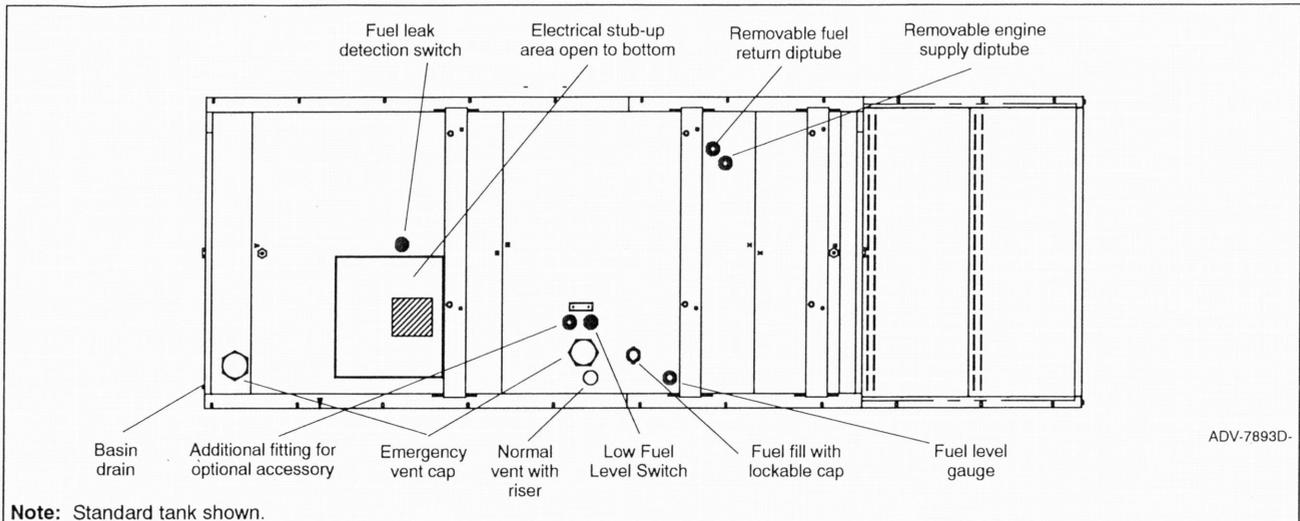
Motorized Air Inlets

- Aluminum Construction
- Galvanized Steel Construction (available on sound enclosure only)

Motorized Air Outlets

- Aluminum Construction
- Galvanized Steel Construction

Subbase Fuel Tank



Standard Subbase Fuel Tank Features

- Extended operation. Usable tank capacity offers full load standby operation of up to 72 hours.
- UL listed. Secondary containment generator set base tank meeting UL 142 requirements.
- NFPA compliant. Designed to comply with the installation standards of NFPA 30 and NFPA 37.
- Integral external lift lugs. Enables crane with spreader-bar lifting of the complete package (empty tank, mounted generator set, and enclosure) to ensure safety.
- Emergency pressure relief vents. Meets UL requirements; ensures adequate venting of inner and outer tank under extreme pressure and/or emergency conditions.
- Normal vent with cap. Vent is raised above lockable fuel fill.
- Low fuel level switch. Annunciates a 50% low fuel level condition at generator set control.
- Leak detection switch. Annunciates a contained primary tank fuel leak condition at generator set control.
- Electrical stub-up.

State Code Subbase Fuel Tank Options

Bottom Clearance/Coating

- I-beams, provides 106 mm (4.2 in.) of ground clearance
- Epoxy mastic coating

Fuel in Basin Options

- Fuel in basin switch, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved

Fuel Fill Options

- Fill pipe extension to within 152 mm (6 in.) of bottom of fuel tank.
- 18.9 L (5 gallon) spill containment with 95% shutoff
- 18.9 L (5 gallon) spill containment
- 18.9 L (5 gallon) spill containment fill to within 152 mm (6 in.) of bottom of fuel tank
- 26.5 L (7 gallon) spill containment, Florida Dept. of Environmental Protection (FDEP) File No. EQ-226 approved
- 26.5 L (7 gallon) spill containment with 95% shutoff, Florida Dept. of Environmental Protection (FDEP) File No. EQ-226 approved

Fuel Supply Options

- Fire safety valve (installed on fuel supply line)
- Ball valve (installed on fuel supply line)

High Fuel Level Switch

- High fuel level switch
- High fuel level switch, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved

Normal Vent Options

- 3.7 m (12 ft.) above grade (without spill containment)
- 3.7 m (12 ft.) above grade (with spill containment)

Tank Marking Options

- Decal, Combustible Liquids - Keep Fire Away (qty. 2)
- Decal, NFPA 704 identification (qty. 2)
- Decal, tank number and safe fuel fill height (qty. 2)
- Decal, tank number and safe fuel fill height, NFPA 704 identification

Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load	Weather Enclosure and Subbase Fuel Tank				Fuel Tank Height, mm (in.)	Sound Pressure at 7 m (23 ft.), dB(A)
		Dimensions, mm (in.)			Weight, kg (lb.)		
		Length	Max. Width	Height	With Steel Enclosure		

500REOVZB

Note: Refer to the respective ADV drawings for other details and specifications.

Lift base	0	4734 (186)	2229 (88)	2906 (114)	5086 (11188)	203 (8)	—
2037 (538)	12			3033 (119)	6653 (14643)	330 (13)	
3833 (1012)	24			3262 (128)	6973 (15347)	559 (22)	
5763 (1522)	36			3541 (139)	7321 (16115)	838 (33)	
7641 (2018)	48	5461 (215)	3617 (142)	7732 (17021)	914 (36)		
11400 (3011)	72	7620 (300)	8715 (19187)				

500REOVZB with State Code Fuel Tank

2084 (551)	12	5596 (220)	2229 (88)	3033 (119)	6863 (15104)	330 (13)	—
3937 (1040)	24			3236 (127)	7379 (16243)	533 (21)	
5724 (1512)	36			3440 (135)	7503 (16516)	737 (29)	
7655 (2022)	48	5969 (235)	3617 (142)	7878 (17342)	914 (36)		
11475 (3031)	72	8763 (345)	9016 (19852)				

550/600REOVZ

Lift base	0	4734 (186)	2229 (88)	2906 (114)	6626 (14450)	203 (8)	—
2037 (538)	12			3033 (119)	8193 (17905)	330 (13)	
3833 (1012)	24			3262 (128)	8513 (18609)	559 (22)	
5763 (1522)	36			3541 (139)	8861 (19377)	838 (33)	
7641 (2018)	48	5461 (215)	3617 (142)	9272 (20283)	914 (36)		
11400 (3011)	72	7620 (300)	10254 (22449)				

550/600REOVZ with State Code Fuel Tank

2084 (551)	12	5596 (220)	2229 (88)	3033 (119)	8403 (18366)	330 (13)	—
3937 (1040)	24			3236 (127)	8919 (19505)	533 (21)	
5724 (1512)	36			3440 (135)	9043 (19778)	737 (29)	
7655 (2022)	48	5969 (235)	3617 (142)	9418 (20604)	914 (36)		
11475 (3031)	72	8763 (345)	10556 (23114)				

NOTE: Refer to the respective ADV drawings for other details and specifications.

Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load	Sound Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure at 7 m (23 ft.), dB(A)	
		Dimensions, mm (in.)			Weight, kg (lb.)				
		Length	Max. Width	Height	With Steel Enclosure	With Aluminum Enclosure			
500REOZVB									
Lift base	0	6305 (248)	2229 (88)	2912 (115)	5453 (12038)	4964 (10938)	203 (8)	75	
2037 (538)	12			3039 (120)	6953 (15343)	6463 (4243)	330 (13)		
3833 (1012)	24			3267 (129)	7273 (16047)	6783 (14947)	559 (22)		
5763 (1522)	36			3547 (140)	7621 (16815)	7131 (15715)	838 (33)		
7641 (2018)	48			7033 (277)	3623 (143)	8032 (17721)	7542 (16621)		914 (36)
11400 (3011)	72			7620 (300)	9015 (19887)	8525 (18787)			
500REOZVB with State Code Fuel Tank									
2084 (551)	12	7163 (282)	2229 (88)	3039 (120)	7163 (15804)	6673 (14704)	330 (13)	75	
3937 (1040)	24			3242 (128)	7679 (16943)	7189 (15843)	533 (21)		
5724 (1512)	36			3445 (136)	7803 (17216)	7313 (16116)	737 (29)		
7655 (2022)	48			7541 (297)	3623 (143)	8178 (18042)	7688 (16942)		914 (36)
11475 (3031)	72			8763 (345)	9316 (20552)	8826 (19452)			
550/600REOZV									
Lift base	0	6305 (248)	2229 (88)	2912 (115)	6994 (15433)	6504 (14333)	203 (8)	75	
2037 (538)	12			3039 (120)	8493 (18605)	8003 (17505)	330 (13)		
3833 (1012)	24			3267 (129)	8813 (19309)	8323 (18209)	559 (22)		
5763 (1522)	36			3547 (140)	9161 (20077)	8671 (18977)	838 (33)		
7641 (2018)	48			7033 (277)	3623 (143)	9572 (20983)	9082 (19883)		914 (36)
11400 (3011)	72			7620 (300)	10856 (23947)	10366 (22847)			
550/600REOZV with State Code Fuel Tank									
2084 (551)	12	7163 (282)	2229 (88)	3039 (120)	8703 (19066)	8213 (17966)	330 (13)	75	
3937 (1040)	24			3242 (128)	9219 (20205)	8729 (19105)	533 (21)		
5724 (1512)	36			3445 (136)	9343 (20478)	8853 (19378)	737 (29)		
7655 (2022)	48			7541 (297)	3623 (143)	9718 (21304)	9228 (20204)		914 (36)
11475 (3031)	72			8763 (345)	10856 (23814)	10366 (22714)			

NOTE: Refer to the respective ADV drawings for other details and specifications.

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