

**shindaiwa®**

# **SPECIFICATIONS**

Diesel Engine Generator  
**DG37MK-P/ANZ**

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# **CHAPTER 1: GENERAL**

## **1. Standards**

Design and production are in conformity with:

- (1) Japan Industrial Standards: JIS C 9300-1
- (2) Low Noise Type Construction Machinery Standard
- (3) Voluntary Emission Regulations for non-road engines in Japan by MLIT. (Tier 3)

\*MLIT : Ministry of Land, Infrastructure, Transport and Tourism.

## **2. Design Conditions**

- (1) Installation Place: Outside Only.
- (2) Ambient Temperature: 5 to 104° F (-15 to 40°C)
- (3) Humidity: Less than 80%
- (4) Altitude: Less than 984 ft. (300 m) above sea level

## **3. Test and Check**

Test shall be conducted with a complete workable unit of the diesel engine unit.

Check Items:

- (1) Insulation and Dielectric Test
- (2) Starting
- (3) Protection Device Working Test
- (4) Voltage Deviation and Speed Variation: 0-4/4 Load
- (5) Load Test: Welding and Generating 4/4 Load

## **4. Painting**

Painting and color specifications are as per manufacturer's standard.

## **5. Structure**

- (1) Bed and Vibration Proof Device

Alternator is directly coupled with engine and both are installed on the bed through the vibration proof device.

- (2) Low Noise

Low noise structure is put in the inside of the bonnet.

Sound Level: 58 dB(A) @7m distance under no load.

- (3) Fuel Tank

A steel fuel tank is equipped and incorporated with the electrical level gauge.

## CHAPTER 2: SPECIFICATIONS

	Model	Unit	DG37MK-P/ANZ
Alternator	Generating Type	-	Rotating Filed, Brushless 3-Phase Synchronous Alternator
	Rated Output	kVA	37
		kW	29.6
	Rated Voltage	V	415
	Rated Current	A	51.5
	Rated Frequency	Hz	50
	Winding	-	3-phase, 4-wire
	Power Factor	%	80
	Insulation	-	F
	Excitation	-	Self-Excitation (Brushless)
No. of Pole	-	4	
Engine	Type	-	Vertical Water-cooled 4-cycle Diesel Engine
	Model (Manufacturer)	-	V3800DI-T (KUBOTA)
	No. of Cylinder (bore x stroke)	mm	4 (100 X 120)
	Rated Output (Continuous)	kW	33.1
		PS	45.0
	Rated Speed	min <sup>-1</sup>	1500
	Displacement	L	3.769
	Combustion	-	Direct Fuel Injection with Turbo Charger
	Cooling	-	Radiator
	Lubricating	-	Forced lubrication
	Starting	-	Electric Start
	Fuel	-	Diesel Fuel (ASTM No. 2-D)
	Lubricant Oil	-	CD class
	Fuel Tank Capacity	L	360
	Lubricant Volume (Full)	L	13.2
	Cooling Water Volume	L	12.5
	Starting Motor Capacity	V-kW	12 - 3.0
Charging Dynamo Capacity	V-A	12 - 30	
Battery	-	80D26R	
Unit	Length	mm	1750
	Width	mm	880
	Height	mm	1795
	Dry Weight	kg	1191
	Installed Weight	kg	1520

\*Specifications are subject to change without notice.

# CHAPTER 3: EQUIPMENT AND FEATURE

## 1. Equipment

### (1) Generator

Voltage Meter .....	1 pc.
Ampere Meter .....	1 pc.
Frequency Meter .....	1 pc.
AC Voltage Adjusting Dial.....	2 pcs.
3-Phase Receptacle (32A) .....	2 pcs.
3-Phase Receptacle (20A) .....	1 pc.
1-Phase Receptacle (20A) .....	3 pcs.

### (2) Safety Device

Emergency Stop Button .....	1 pc.
Battery Isolator.....	1 pc.
Main Breaker - with leakage shut off device.....	1 pc.
ELCB (3-Phase) .....	3 pcs.
ELCB (1-Phase).....	3 pcs.
3-Phase Breaker (32A) .....	2 pcs.
3-Phase Breaker (20A) .....	1 pc.
1-Phase Breaker (15A) .....	1 pc.
Protective Monitor .....	1 set
●Battery Charge (with auto engine shutdown feature)	
●Oil Pressure (with auto engine shutdown feature)	
●Over Heat (with auto engine shutdown feature)	
●Over Speed (with auto engine shutdown feature)	
●Air Filter	
●Spill Containment	
Fuel "Keyed" Cover .....	1 pc.
Panel/Left/Right Doors (w/ locking feature) .....	1 pc ea.

Engine Automatic Shut-Down Feature (when some protective problems are detected.)

### (3) Equipment

Fuel Meter.....	1 pc.
Water Temp. Meter.....	1 pc.
Monitor Lamp.....	1 set
Preheat Lamp .....	1 pc.
Panel Light.....	1 pc.
Throttle Switch .....	1 pc.
Starter Switch.....	1 pc.
Fuel Tank.....	1 pc.

Fuel Filter (w/ fuel strainer) .....	1 pc.
Air Cleaner .....	1 pc.
Fuel Drain Plug .....	1 pc.
Oil Drain Plug.....	1 pc.
Coolant Drain Plug.....	1 pc.
Hour Meter .....	1 pc.
Pilot Lamp .....	1 pc.
Low Noise Air Flow System	

## 2. Feature

### (1) Feature

- Sound Level 58B(A) at 7m distance under no load.
- Generating Performance 1-Phase & 3-Phase
- 2 Way Drive Control High/Low Speed
- Environmental Quiet Sound System
- Fuel Tank Capacity 95 gal. (360 Liters)
- Dry Weight 2626 lbs. (1191 kg)
- Dimensions (LxWxH) 68.9" x 34.6" x 70.7" (1750 x 880 x 1795 mm)

### (2) Protection Device

Item	Set Value	Engine Shut-Down
Water Temp.	230° F/110°C	✓
Low Battery Charge	8V	✓
Low Oil Pressure	7 psi/49kPa	✓
Air Filter	when clogged	No
Over Speed	2070 rpm	✓
Spill Containment	10 gal./37.8 liters	No

### (3) Fuel Economy

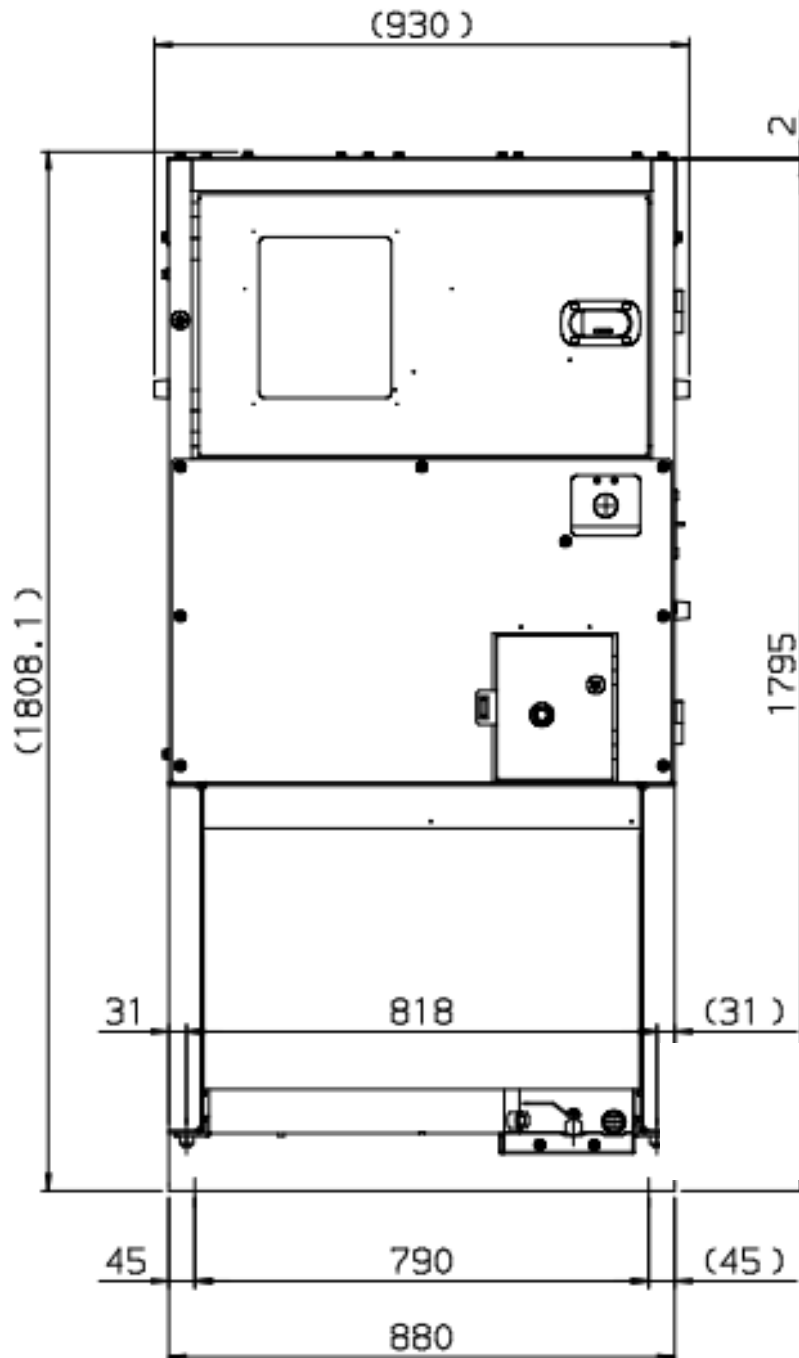
Criteria	Fuel Consumption
Full load	2.4gal./hr (8.9L/hr.)
3/4 load	1.8gal./hr (6.7L/hr.)
1/2 load	1.3gal./hr (4.9L/hr.)
1/4 load	.58gal./hr. (2.2L/hr.)
No Load	N/A

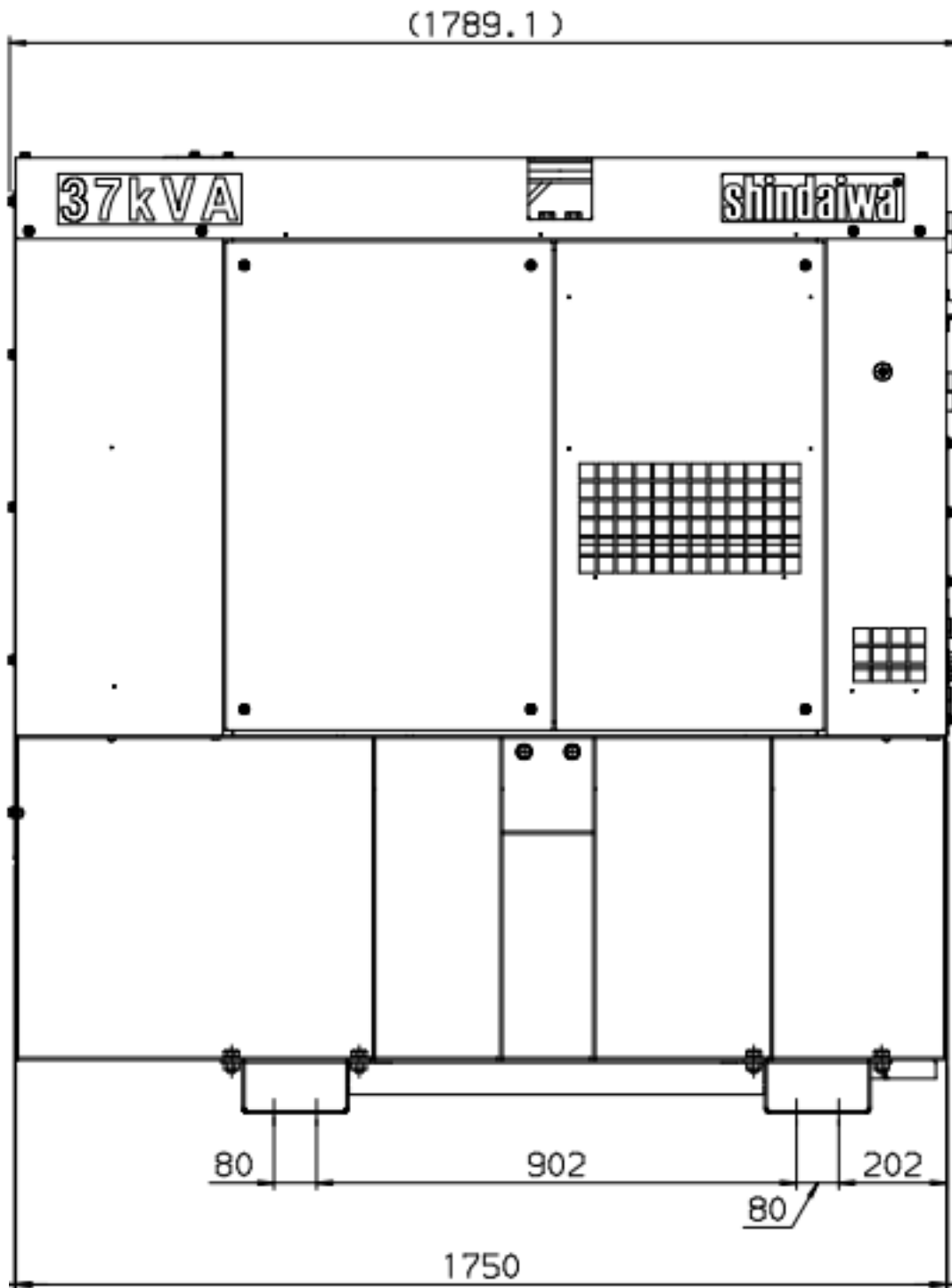
\*Above is for reference only.

(4) Accessories

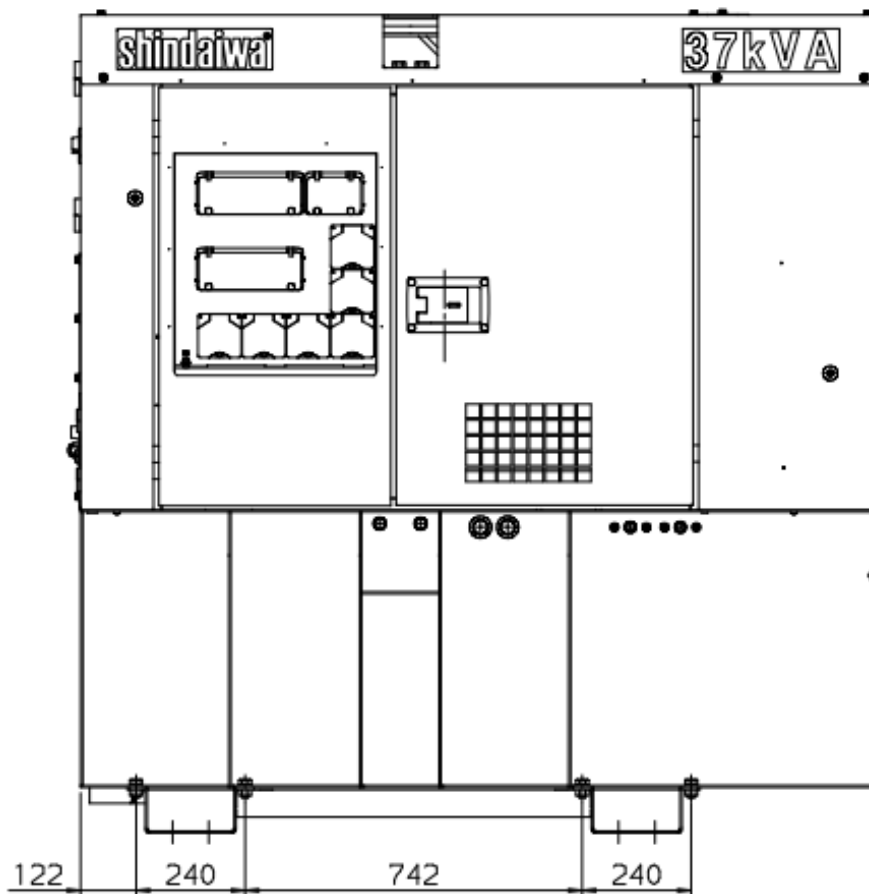
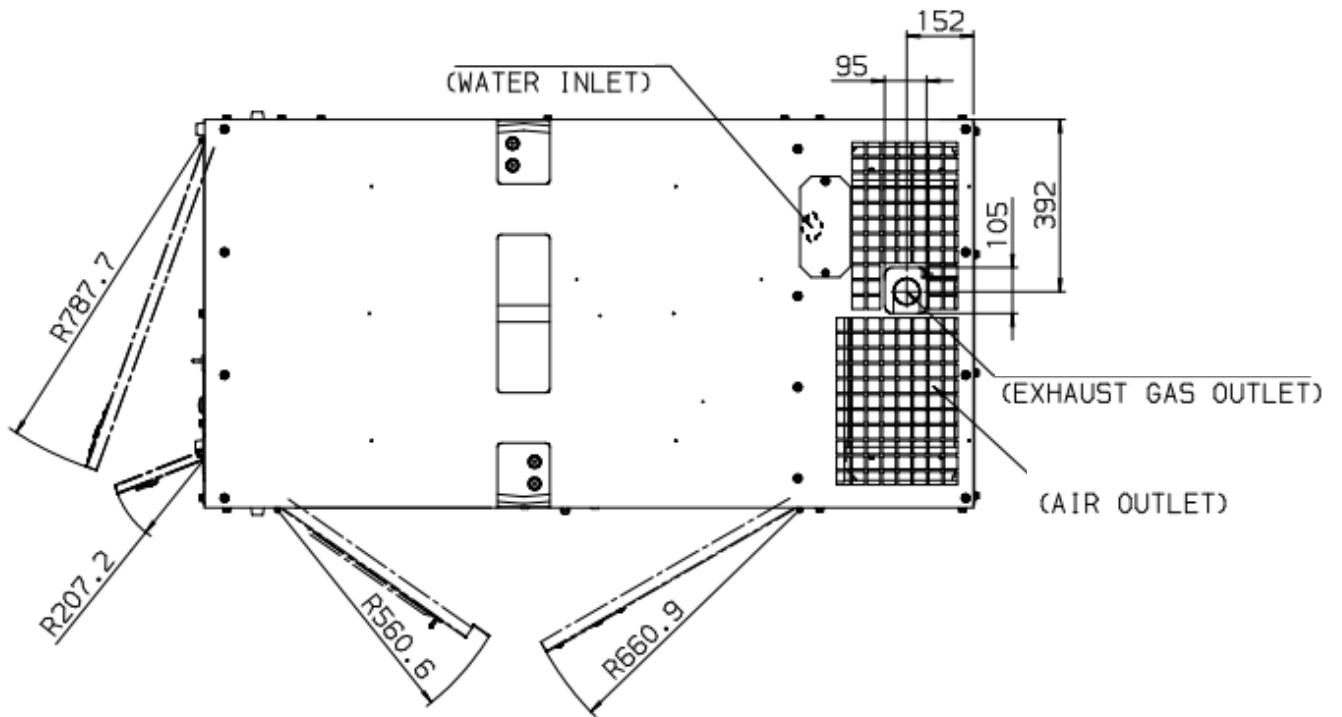
Operator's Manual	1 copy
Engine Instruction Manual	1 copy
Starter Key	2 pcs.

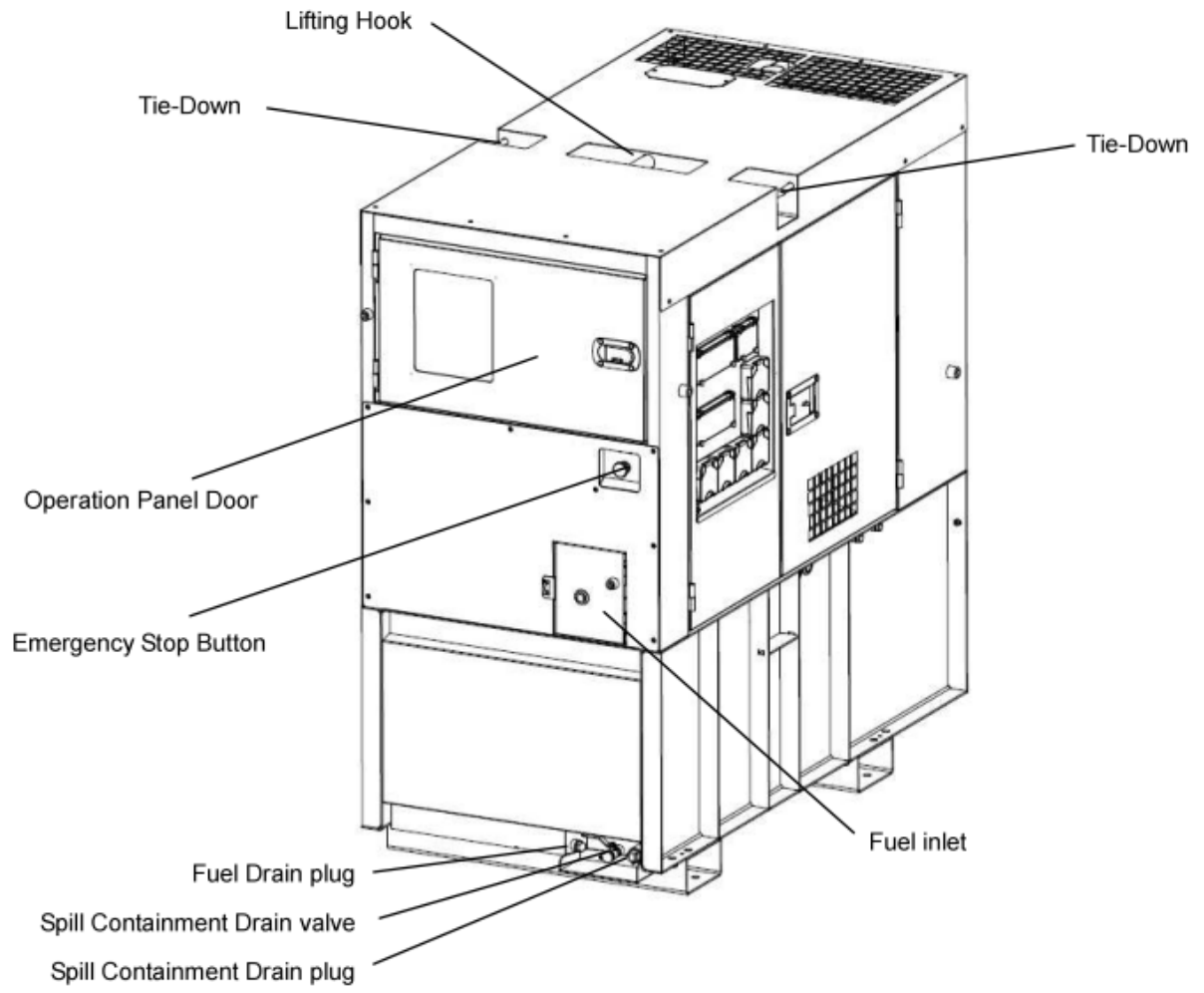
**CHAPTER 4: APPEARANCE**

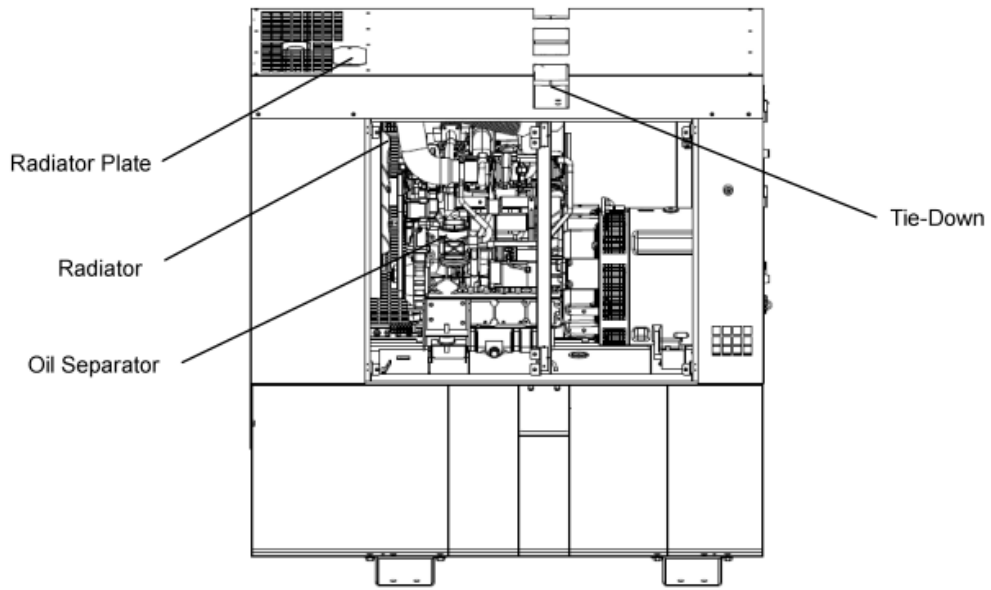




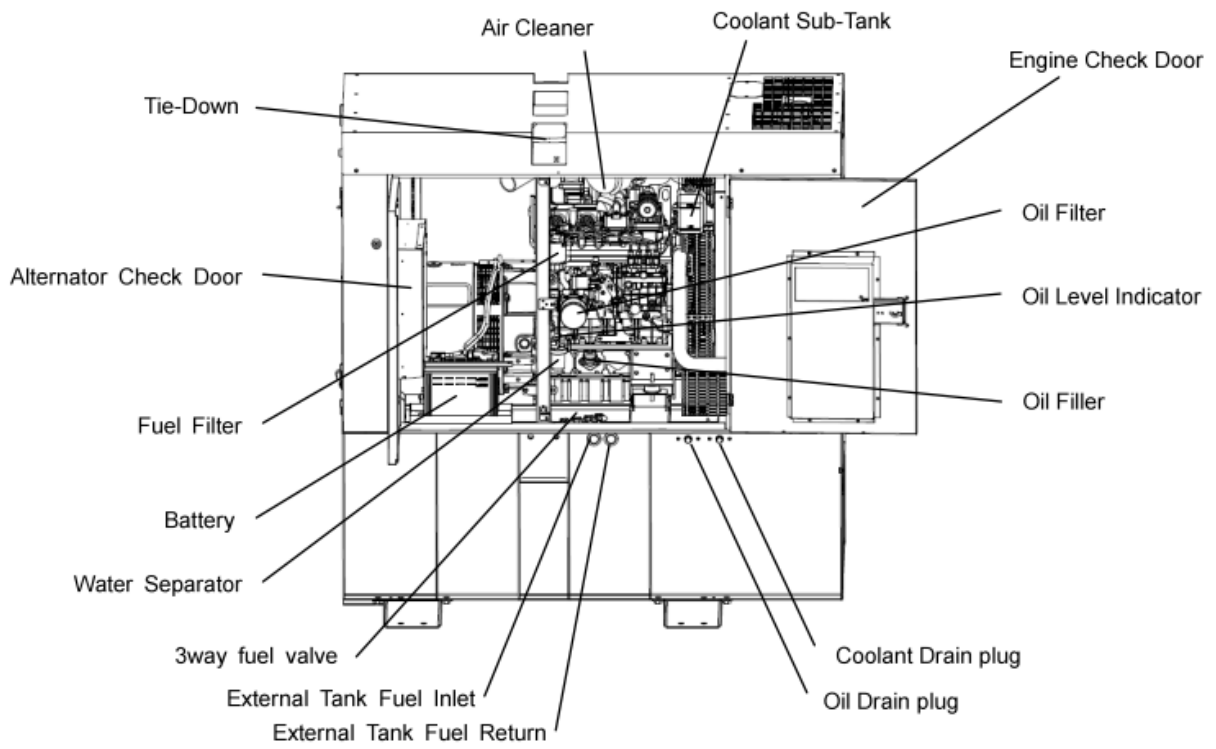








\* Shown with side-plate removed.



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