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NAVARRO COUNTY
AUDITOR'S OFFICE

Generator Bid proposal for:

Navarro County IT

"Annex Building "

601 N 13th St.

Corsicana, Tx 75110

By:

H3 Outdoors LLC

Electrical Contracting &

Industrial/ Residential Generators

Matt Herod

305 Brown St Kerens, Tx 75144

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TECL# 37465

Sam ID # Q78CVKA2DR44/9K7R7

H3 Outdoors llc
Matt Herod
305 Brown St
Kerens, Tx 75144

Date 03/19/2024

Navarro County IT
601 N 13th St
Corsicana, Tx 75110

Dear Navarro County IT:

Thank you for the opportunity to Spec out and bid this project. This estimate is a summarized bid for the installation of an emergency generator system to back up the Navarro County IT Server Room.

We have calculated that a Kohler 60kw diesel generator or a Kohler 60kw natural gas generator will effectively run the IT facility within the Annex Building. We have included specs for both diesel and natural gas generators in bid. There will be a 200-amp fusible heavy duty main disconnect mounted on south corner of the east side of building. Along with a 200-amp automatic transfer switch beside it. Those will feed to conduit to the far-right side of the electrical services coming into building. The panel that is fed from the reworked service will be designated for IT department Server Room and corresponding air conditioning unit(s) for that room only and will be backed up by on-site generator.

Generator will be mounted on a concrete pad to the east of the facility between main building rear storage building offset from east side of building 24 inches. There will be bollards built and placed around generator painted yellow to protect unit from automobile damage. There will also be a remote annunciator panel mounted inside of building to display generator and transfer switch status. (Natural Gas Generator will come with remote monitoring thru Kohlers ON-CUE monitoring app)

There will be two conduits ran from the generator to transfer switch. They will be mounted to the side of building and secured using Unistrut and mounting brackets. One 2-inch conduit will hold the main supply power from generator. One ¾ pipe will house battery charge, communication, and control wiring. All piping will be PVC electrical conduit.

Generator, Transfer Switch and Disconnect equipment and installation meet NEC and NFPA -110 Code. After all work is complete and approved by city/ county officials, we will perform a complete system walk thru in full detail of all operating systems and preventative maintenance procedures and operating procedures with county employees.

This quote does include first year's maintenance free of charge with quarterly service checks. Yearly maintenance and service checks average \$1300- \$1500 per year per site. The batteries will be changed every third year regardless of life expectancy. There will be an added cost to every third-year service approximately \$300- \$400 per battery.

The total installation of this system is:

Natural Gas \$ 73,109.00 Diesel \$ 93,800.00 * Prices Include Bond *

The expected lead times as of 04/19/2024 is as follows;

Transfer switch In Stock

Natural Gas Generator In stock

Diesel Generator 40-52 Weeks'

Estimated Total work time involved once equipment is in 2-3 weeks weather permitting.

Work will be done in stages as equipment arrives to prepare site and facility for change over to the new electrical service and to minimize the electrical down time as much as possible.

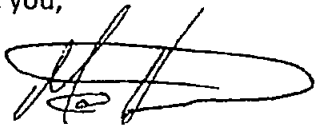
This quote and lead time is good for 30 days from today's date of 04/18/2024

A Surety Bond will be issued after the approval of project for the total amount of the selected bid for the estimated total estimated completion time. Payment is due in full once the Certified Copies have been delivered to County Auditor's Office.

* Once Equipment is awarded and ordered there is no cancellations or changes allowed. *

If there are any additional questions, concerns or follow up correspondence please call, text, or email at; mattherod@h3outdoorsllc.com, 254-315-6478 cell

Thank you,

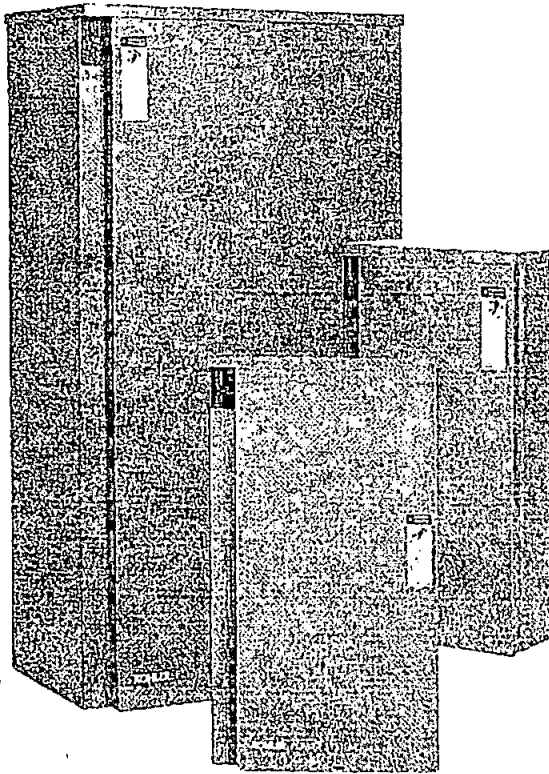


Matt Herod
H3 Outdoors LLC
TECL# 37465
Sam ID # Q78CVKA2DR44/9K7R7

Kohler 60kw Comparison

	<u>Natural Gas</u>	<u>Diesel</u>
Sound Level	61db	80db
Tank Size	NA	133 Gallon
Warranty	5yr/2000 hr	2.5yr
Controller	RDC2	APM402
Amperage	242 per Phase	241 per Phase
Remote Monitor	Yes ON-CUE	No

Individual Generator Specs Provided along with Transfer switch
See additional Pages

ISO 9001
KOHLER.
NATIONALLY REGISTERED

Available Models

- 100, 200, and 400 amp standard and service entrance models are available.
- 150 and 300 amp service entrance models are also available.
- Combined interface/load management board is available on single-phase standard and service entrance models. (Not available on 3-phase or load center models.)
- 100 amp standard single-phase models are available with or without a 16-space load center. Up to 8 tandem breakers can be used for a total of 24 circuits.
- 100 amp standard single phase model with a 12-space load center and a NEMA 1 enclosure is available as a standalone non-configurable spec (GM85273-SA).
- See page 7 for more information.

Model RXT Automatic Transfer Switch

The Model RXT automatic transfer switch is designed for use only with Kohler® generator sets equipped with the RDC2 generator set/transfer switch controller. The transfer switch operation is controlled by the RDC2 controller.

Standard Features

- Allows utility voltage display on the RDC2 generator set/transfer switch controller, available exclusively on Kohler® residential and light commercial generator sets
- UL listed
 - UL 1008 listed, file # E58962
 - Models with load centers use UL 67 listed components
- CSA certification, file # LR58301, is available for:
 - Standard ATS without load center (single and three-phase)
 - Service entrance ATS 100, 200, 300, and 400 amp models
- Corrosion-resistant NEMA 3R aluminum enclosure
 - Padlockable
 - Approved for indoor or outdoor installation
 - ANSI 49 gray
- NEMA 1 enclosure available on 100 amp load center models
- Contactor electrically and mechanically interlocked
- Double throw inherently interlocked design
- Contactor manually operable for maintenance purposes
- Silver alloy main contacts
- Transfer switches are 100% equipment rated and can be applied at the rated current without derating (non-service entrance models)
- Service entrance models include disconnect circuit breaker on the utility (normal) source side (80% rated)
- Five-year limited warranty

Standard Interface Board

- Standard interface board connects to the Model RDC2 generator set/transfer switch controller.
- Includes a load control contact that provides a 5 minute time delay for startup of selected loads after transfer to the emergency source. Use for large motor loads.

Combined Interface/ Load Management Board

- Optional combined interface/load management board replaces the standard interface board and connects to the Model RDC2 generator set/transfer switch controller.
- The combined board is available on single-phase standard and service entrance models. (Not available on 3-phase or load center models.)
- The combined board automatically manages up to six residential loads:
 - Up to four customer-supplied power relay modules can be connected for management of non-essential secondary loads.
 - Two HVAC relays are included for control of two independent air conditioner loads.

Codes and Standards

The ATS meets or exceeds the requirements of the following specifications:

- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Systems, file #E58962
- Underwriters Laboratories UL 508, Standard for Industrial Control Equipment
- CSA certification available, file #LR58301 (not available for 150, 300, or 400 amp service entrance or 100 amp load center models). Must be selected when the transfer switch is ordered.
- NFPA 70, National Electrical Code
- NFPA 110, Emergency and Standby Power Systems
- NEMA Standard IC10- 1993, AC Automatic Transfer Switches

Specifications

Standard Interface Board	
Controller interface connections A and B	#20 AWG shielded twisted-pair Belden 9402 or 8762 or equivalent
Controller interface connections PWR and COM	#12-20 AWG (see ATS Installation Manual)
Load control contact rating	10 A @ 250 VAC
Load control connections	#12-18 AWG

Note: For combined interface/load management board specifications, see page 3.

Environmental Specifications	
Operating temperature	- 20°C to 70°C (- 4°F to 158°F)
Storage temperature	- 40°C to 85°C (- 40°F to 185°F)
Humidity	5 to 95% noncondensing

Contact Ratings	
Engine start	10 A @ 32 VDC SPST normally closed (NC)
Load control	10 A @ 125 VAC SPST normally open (NO)

Auxiliary Position-Indicating Contacts		
Model	Number of contacts Normal, Emergency	Contact Rating
100-200A 1 Ph	1, 1 Optional	15 A @ 250VAC
100-200 A 1 Ph SE	1, 1 Optional	15 A @ 250VAC
300-400 A 1 Ph SE	2, 2 Standard 1, 1 Optional	10 A @ 480 VAC
400 A 1 Ph and 3Ph/3P	2, 2 Standard 1, 1 Optional	10 A @ 480 VAC
400 A 3Ph/4P	8, 8 Standard	10 A @ 480 VAC

Cable Sizes						
Al/Cu UL-Listed Solderless Screw-Type Terminals for External Power Connections						
Switch Size, Amps	Switch	Ph.	Range of Wire Sizes, Cu/Al			
			Normal (per phase)	Emergency and Load (per phase)	Neutral	Ground
100	Standard	1	(1) #14 - 1/0 AWG	(1) #14 - 1/0 AWG	(5) #12 - 250 KCMIL (Cu) or (5) #10 - 250 KCMIL (Al)	(9) #6 - #14 AWG or (4) #14 - 1/0 AWG
	12- or 16-space load center (NEMA 1)	1	(1) #14 - 1/0 AWG	Emerg: (1) #14 - 1/0 AWG Load: per customer-supplied circuit breaker	(26) #4 - 14 AWG or (2) #14 - 1/0 AWG or (1) #6 - 2/0 AWG	
	16-space load center (NEMA 3R)	1	(1) #14 - 1/0 AWG		(26) #4 - 14 AWG or (2) #14 - 1/0 AWG or (1) 2/0 AWG	
	Service Entrance	1	(1) #12 - 2/0 AWG	(1) #14 - 1/0 AWG	(5) #12 - 250 KCMIL (Cu) or (5) #10 - 250 KCMIL (Al)	
	3-Phase	3	(1) #14 - 4/0 AWG	(1) #14 - 4/0 AWG	(3) #14 - 1/0 AWG	
* 150 200	Service Entrance	1	(1) #4 - 300 KCMIL	(1) #6 - 250 KCMIL	(5) #12 - 250 KCMIL (Cu) or (5) #10 - 250 KCMIL (Al)	(6) #6 - 3/0 AWG
200	Standard	1	(1) #6 AWG - 250 KCMIL	(1) #6 - 250 KCMIL	(5) #12 - 250 KCMIL (Cu) or (5) #10 - 250 KCMIL (Al)	
	3-Phase	3	(1) #14 - 4/0 AWG	(1) #14 - 4/0 AWG	(3) #14 - 1/0 AWG	
300 400	Service Entrance	1	(1) #1 - 600 KCMIL or (2) #1 - 250 KCMIL	(2) 1/0 - 250 KCMIL or (1) #4 - 600 KCMIL	(12) 1/0 - 250 KCMIL or (6) #4 AWG - 600 KCMIL	(6) #6 - 3/0 AWG
400	Standard	1 3	(1) #4 - 600 KCMIL or (2) 1/0 - 250 KCMIL	(1) #4 - 600 KCMIL or (2) 1/0 - 250 KCMIL	(3) #4 AWG - 600 KCMIL or (6) 1/0 AWG - 250 KCMIL	

Note: Data is subject to change. Refer to the transfer switch dimension drawings and wiring diagrams for planning and installation.

* - switch may be used in place of other switch

Optional Combined Interface/Load Management Board

The RXT transfer switch is available with either a standard interface board or a combined interface/load management board. The combined board allows load management as described below.

Load Management

- The combined load management board disconnects non-critical loads to prevent generator overload, in compliance with NEC.
- The combined load management board monitors generator current and frequency to determine when to add or shed loads. This monitoring prevents frequency drops that can damage valuable electronics like computers and televisions.
- Load management allows the use of a smaller generator set.

Operation

- Loads are automatically added or shed based on generator capacity.
- The load control system uses dynamic logic to prevent shedding important loads unnecessarily when air conditioning, refrigerator, or water pump motors start (patent pending).
- The load management board and generator communicate to provide smart power management. The time to shed loads decreases as each load is shed to quickly adapt to critical power requirements.
- Load shed power level and frequency setpoints can be adjusted using a personal computer (laptop) and Kohler® SiteTech™ software, which is only available to Kohler-authorized distributors and dealers.

Priority Setting

- Loads are added and shed according to their priority. Load 1 is the top priority, which is added first and shed last. Load 6 is the lowest priority.
- Less critical loads can be turned off automatically when essential appliances are running.
- Load priorities are hard-wired at installation.

Viewing Load Shed Outputs with OnCue® Plus

- Use Kohler's OnCue® Plus Generator Management System (sold separately) to view load status (On or Off) for loads connected to the load shed relays.
- Use OnCue® Plus to remotely monitor when loads are shed or added.
- The load shed outputs can be labeled in OnCue® Plus.

Current Transformer

- The combined load management board option includes a 400 amp current transformer (CT) for load monitoring.
- A larger diameter CT is available for applications that require larger cables.
- A 500 amp CT is available for use with a 60RCL generator.
- See the table below for current transformer specifications and optional kit numbers.

Load Shed Specifications

Connection	Rating	Connection
Pilot Relays*	125VAC, 10 A total (general purpose) 120VAC, 125VA (pilot duty)	#12- 20 AWG
HVAC Relays (qty. 2)	125VAC, 10 A (general purpose) 120VAC, 125VA (pilot duty)	#12- 20 AWG
RBUS Communication and Power Connections to the RDC2 controller	0.5 A @ 12 VDC	Use Belden #9402 or equivalent 20 AWG shielded, twisted-pair communications cable †

* Four (4) pilot relays are provided for customer-supplied normally closed load-switching contactors/relays. The combination of four load relay outputs cannot exceed 10 amps total current draw. Kohler® power relay modules are recommended.

† For long distances, use an equivalent shielded, twisted-pair cable for RBUS connections and individual 12-20 AWG wires (qty. 2) for power connections.

Current Transformer Specifications

Ratio (Amps:VAC)	Outer Diameter mm (in.)	Inner Diameter mm (in.)	Service Part Number	Sales Kit Part Number	CT Availability
400:3	63.5 (2.5)	28.7 (1.13)	GM83929	N/A	Included with combined board
400:3	111.8 (4.4)	57.2 (2.25)	GM17250	GM17250-KP1-QS	Sold Separately
500:3	171.5 (6.75)	108.0 (4.25)	GM60264	GM17250-KP2-QS	Sold Separately (use with 60RCL)

Withstand and Close-On Ratings (WCR)

Service Entrance Transfer Switch Ratings

The service entrance transfer switch is factory-equipped with a normal source disconnect circuit breaker.

Suitable for the control of motors, electric discharge lamps, tungsten filament lamps and electric heating equipment where the sum of motor full-load ampere ratings and the ampere ratings of other loads do not exceed the ampere rating of the switch and the tungsten load does not exceed 30 percent of switch rating.

Switch Rating, Amps *	WCR, RMS Symmetrical Amps at 240 VAC
100, 150, 200	22,000
300, 400	35,000
* Continuous load current not to exceed 80% of switch rating.	

Contactor Ratings with Coordinated Circuit Breakers

Single-phase transfer switches are UL listed at 240 VAC maximum. Three-phase transfer switches are rated at 480 VAC maximum. The following table lists contactor withstand current ratings (WCR) for 100-400 ampere non-service entrance rated switches with specific manufacturer's circuit breakers per UL and Canadian safety standards. Suitable for the control of motors, electric discharge lamps, tungsten filament lamps and electric heating equipment where the sum of motor full-load ampere ratings and the ampere ratings of other loads do not exceed the ampere rating of the switch and the tungsten load does not exceed 30 percent of switch rating.

The transfer switch is rated for use on a circuit capable of delivering not more than the RMS symmetrical amperes maximum as shown in the tables below, but no greater than the interrupting capacity of the selected breaker.

WCR Ratings with Specific Manufacturer's Molded-Case Circuit Breakers							
Switch Rating, Amps	Voltage, max.	Number of Poles/ Phases	WCR, RMS Symmetrical Amps	Manufacturer	Type or Class	Maximum Size, Amps	
100	240	2 pole/ 1 phase	10,000	Any Breaker *	Any Breaker (0.025 seconds max.)	—	
100	240	3 phase	150,000	Square D	HR	250	
			125,000		HL	150	
			100,000		BJ, HJ	125	
			65,000		BG, HG	125	
			42,000		QG, QJ	125	
			25,000		HD	150	
	480	480	3 phase	22,000	GE	THED	150
				85,000	Square D	HL, HR	150
				50,000		BJ	125
				35,000		HG, HJ	150
18,000	BG	125					
					BD, HD	125	
150 200	240	2 pole/ 1 phase	10,000	Any Breaker *	Any Breaker (0.025 seconds max.)	—	
200	240	3 phase	200,000	Square D	JR	250	
			125,000		JL	250	
			100,000		JJ	250	
			65,000		JG	250	
			42,000		QG, QJ	225	
			25,000		JD	250	
	480	480	3 phase	85,000	JL, JR	250	
				30,000	JG, JJ	250	
				18,000	JD	250	

* For higher WCR values, contact the factory for additional specific breaker ratings.

WCR Ratings with Specific Manufacturer's Molded-Case Circuit Breakers

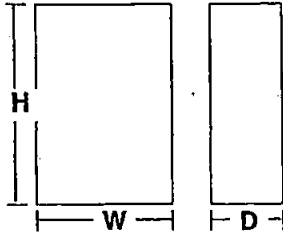
Switch Rating, Amps	Voltage, max.	Number of Poles/ Phases	WCR, RMS Symmetrical Amps	Manufacturer	Type or Class	Maximum Size, Amps	
300 400	240	1 phase	65,000	GE	THLC4	350	
	480		42,000	Eaton/Cutler Hammer	HMC	800	
			42,000	GE	THKM3F	1200	
400	240	3 pole/ 3 phase	65,000	GE	THLC4	350	
	480		42,000	Eaton/Cutler Hammer	HMC	800	
			42,000	GE	THKM3F	1200	
			65,000	GE	THQMV	225	
			65,000	Eaton/Cutler Hammer	SGL1, SGL4, SGL6, SGP1, SGP4, SGP6	600	
			65,000	Eaton/Cutler Hammer	LDC, CLDC, HLD, CHLD	600	
	65,000	Square D	LJ, LL, LR	600			
	480	4 pole/ 3 phase	50,000	Eaton/Cutler Hammer	Square D	QG, QJ	250
					Siemens/ITE	HLD6, HLXD6	600
					Eaton/Cutler Hammer	JGH, JGC, NHH	250
						HKD, CHKD, KDC, HKDB, CHKDB, LHH	400
						CHLD; LDC, CLDC, LGH*, LGC*, LGU*, LGX*	600
						MDL, CMDL, HMDL, CHMDL, NGS, NGH, NGC, MDLB, CMDLB, HMDLB, CHMDLB	800
						NGU	1600
						TBC4	400
					GE	TBC6, TJL4V, TJL1S- 6S, SGL1, SGL4, SGL6, SGP1, SGP4, SGP6, FGN, FGH, FGL, FGP	600
				TBC8, TKL4V, TKH8S- 12S, TKL8S- 12S, SKH8, SKL8, SKP8, TB8		800	
				HFD6, HFXD6, HFG, LFG		250	
				Siemens/ITE	HJD6, HJXD6, SHJD6, HHJD6, HHJXD6, CJD6, SCJD6, HJG, LLG, LJG	400	
					HLD6, HLXD6, SHLD6, HHLD6, HHLXD6, CLD6, SCLD6, HLG	600	
					LMD6, LMXD6, HLM6, HLMXD6, MD6, MXD6, HMD6, HMXD6, SMD6, SHMD6, CMD6, SCMD6, HMG, LMG	800	
					Square D	CK400N, CK400NN, CK400H, CK400HH, CJ400L, NSJ400	400
						LC, DJ, DL, LJ, LL, LR, LI, NSJ600	600
				CK800N, CK800NN, CK800H, CK800HH, MJ		800	
CK1000HH				1000			
PK, PJ, PL, MH, MasterPact STR 28D, CK1200HH	1200						

* With Digitrip 310+ LS or LSG Inst. Override set to 12X.

Dimensions and Weights

Note: Always use the transfer switch dimension drawing for planning and installation. Weights and dimensions may vary for different configurations. See the Operation/Installation Manual or your local distributor for dimension drawings.

Note: Transfer switch weights and dimensions shown in the table do not include packaging. To estimate the shipping weight, add 3 kg (5 lbs.) or 10% (whichever is larger) to the weight shown.



Amps	Description	Dimensions, H x W x D, mm (in.) †		Weight ‡ kg (lb.)	Dimension Drawing
100	Single phase	623 x 335 x 180	(24.5 x 13.2 x 7.1)	7 (15)	ADV-8688
	With 12-space load center (NEMA 1)	610 x 330 x 154	(24.0 x 13.0 x 6.0)	12 (26)	ADV-9186
	With 16-space load center (NEMA 1)	610 x 330 x 154	(24.0 x 13.0 x 6.0)	12 (26)	ADV-9187
	With 16-space load center	614 x 335 x 180	(24.2 x 13.2 x 7.1)	8 (18)	ADV-9188
	Three phase 3-pole	673 x 462 x 228	(26.5 x 18.2 x 9.0)	15 (33)	ADV-9755
	Three phase 4-pole	673 x 462 x 228	(26.5 x 18.2 x 9.0)	15 (33)	ADV-9755
	Service entrance (ASE)	734 x 416 x 175	(28.9 x 16.4 x 6.9)	10 (22)	ADV-9046
	Service entrance (CSE)	754 x 416 x 175	(29.7 x 16.4 x 6.9)	14 (30)	ADV-8797
150	Service entrance (ASE)	734 x 416 x 175	(28.9 x 16.4 x 6.9)	12 (26)	ADV-9046
200	Service entrance (ASE)	734 x 416 x 175	(28.9 x 16.4 x 6.9)	12 (26)	ADV-9046
	Service entrance (CSE)	754 x 416 x 175	(29.7 x 16.4 x 6.9)	16 (36)	ADV-8798
	Single phase	623 x 335 x 180	(24.5 x 13.2 x 7.1)	7 (15)	ADV-8688
	Three phase	673 x 462 x 228	(26.5 x 18.2 x 9.0)	15 (33)	ADV-9755
300	Service entrance	1452 x 629 x 329	(57.2 x 24.8 x 12.9)	59 (130)	ADV-9768
400	Single phase	1222 x 610 x 343	(48.1 x 24.0 x 13.5)	45 (100)	ADV-9756
	3-Pole	1222 x 610 x 343	(48.1 x 24.0 x 13.5)	47 (104)	ADV-9756
	4-Pole	1702 x 610 x 514	(67.0 x 24.0 x 20.2)	188 (414)	ADV-9757
	Service entrance	1452 x 629 x 329	(57.2 x 24.8 x 12.9)	59 (130)	ADV-9768

† Depth does not include the padlock hasp on the front of the enclosure.
‡ Transfer switch weights are approximate and do not include packaging.

Note: Enclosures are type NEMA 3R except as noted.

Accessories

- Auxiliary position-indicating contacts**
 - Standard on 300- 400 amp models, optional for others
 - One closed on normal position and one closed on emergency position
 - Form C contacts rated 15 A @ 250 VAC
- Power relay modules**
 - 50 amp DPST power relay mounted in a NEMA type 3R enclosure
 - Use up to four modules with the combined interface/load management board
 - UL/cUL listed
 - Dimensions: 172 x 233 x 92 mm (6.8 x 9.2 x 3.6 in.)
 - For more information, see specification sheet G6-143
- Status indicator kit for standard interface board**
 - LEDs indicate normal and emergency source availability and contactor position
 - Mounts on the outside of the RXT enclosure
 - View transfer switch status without removing enclosure cover
 - An overhang on the enclosure protects the indicator panel and ribbon cable opening
 - Dimensions: 92 mm x 42 mm (3.62 in. x 1.65 in.)
 - Connects to the standard interface board only
 - Not available for 400 amp/4 pole model
 - For more information on the status indicator kit, see specification sheet G11-123
- Status indicator kit for combined interface/load management board**
 - LEDs indicate normal and emergency source availability and contactor position
 - Dual color LEDs for each load indicate load status (powered or shed) and flash during a test
 - Load shed test button allows the operator to cycle the load shed relays in order of priority (when generator is in RUN mode)
 - Mounts on the outside of the RXT enclosure
 - View transfer switch and load status without removing enclosure cover
 - An overhang on the enclosure protects the indicator panel and ribbon cable opening
 - Dimensions: 183 mm x 42 mm (7.20 in. x 1.65 in.)
 - Connects to the combined interface/load management board only
 - Not available for 400 amp/4 pole model
 - For more information on the status indicator kit, see specification sheet G11-123
- Auxiliary circuit breaker (service entrance models only)**
 - Single-pole type QO circuit breaker
 - Mounts on a bracket inside the enclosure
 - 15 amp and 20 amp circuit breakers are available

Available Models

All Model RXT transfer switches are standard-transition 60 Hz automatic transfer switches. Letters in parentheses refer to the model designation code described on the last page.

Amps	Description (Connections)	Voltages			Poles	Phases	WCR § RMS Symmetrical Amps
		208 (C)	240 (F)	480 (M)			
100	Standard (A)		•		2 (N)	1	10,000
	Standard, with 16-space load center (B) ¶		•		2 (N)	1	10,000
	Standard, with 12-space load center **		•		2 (N)	1	10,000
	Service entrance (ASE, CSE)		•		2 (N)	1	22,000
	Standard, 3-phase (A)	•	•	•	3 (T) or 4 (V)	3	10,000
150	Service entrance (ASE)		•		2 (N)	1	22,000
200	Standard (A)		•		2 (N)	1	10,000
	Service entrance (ASE, CSE)		•		2 (N)	1	22,000
	Standard, 3-phase (A)	•	•	•	3 (T) or 4 (V)	3	10,000
300	Service entrance (ASE, CSE)		•		2 (N)	1	35,000
400	Standard (A)		•		2 (N)	1	35,000
	Service entrance (ASE, CSE)		•		2 (N)	1	35,000
	Standard, 3-phase (A)	•	•	•	3 (T) or 4 (V)	3	42,000 @ 480V 65,000 @ 240 V

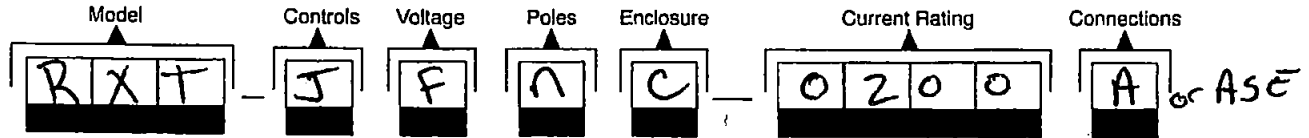
§ Withstand and close-on rating. See pages 3-5 for WCR information and specific breaker ratings.

¶ With 16-space load center and NEMA 1 or NEMA 3R enclosure. Up to 8 tandem breakers can be used, for a maximum of 24 circuits.

** GM85273-SA_ with 12-space load center and NEMA 1 enclosure.

Note: Combined interface board is available on single-phase standard or service entrance models. (Not available on 3-phase or load center models.)

Model Designation



Record the transfer switch model designation in the boxes. The transfer switch model designation defines ratings and characteristics as explained below.

Sample Model Designation: RXT-JFNC-0200A

Model

RXT: Kohler Automatic Transfer Switch

Controls

J: Interface for RDC2 Controller
 (standard or combined interface/load management)

Voltage/Frequency

C: 208 Volts/60 Hz (3-phase only)
 F: 240 Volts/60 Hz
 M: 480 Volts/60 Hz (3-phase only)

Number of Poles/Wires

N: 2-pole, 3-wire, solid neutral (120/240 V only)
 T: 3-pole, 4-wire, solid neutral
 V: 4-pole, 4-wire, switched neutral

Enclosure

A: NEMA 1 *
 C: NEMA 3R

* NEMA 1 enclosure is available on 100 amp load center models only.

Current Rating

0100: 100 amps 0300: 300 amps
 0150: 150 amps 0400: 400 amps
 0200: 200 amps

Connections

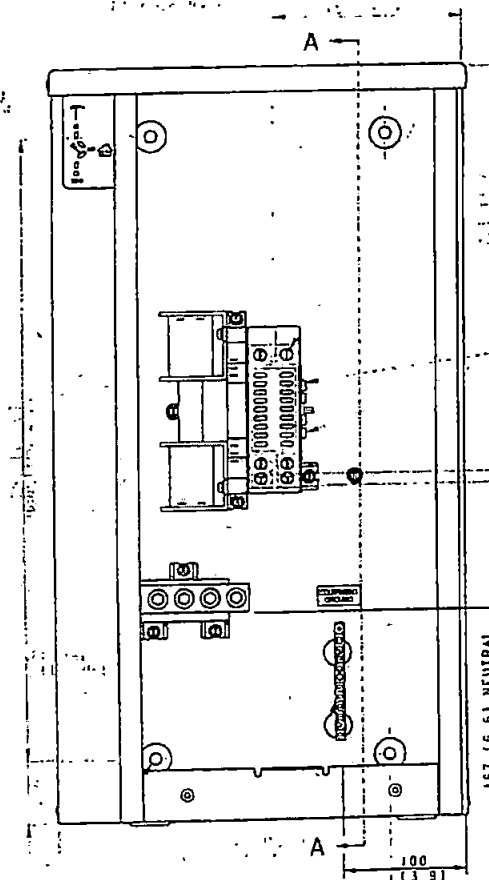
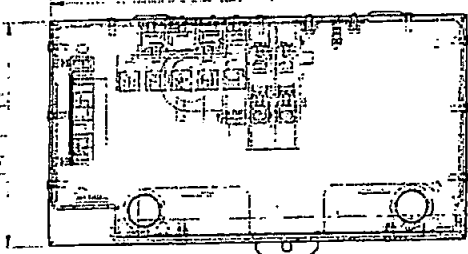
A: No load center
 B: With load center (100 amp single-phase only)
 ASE: Service entrance rated
 CSE: Service entrance rated with CSA certification
 (not available for 150 amp models)

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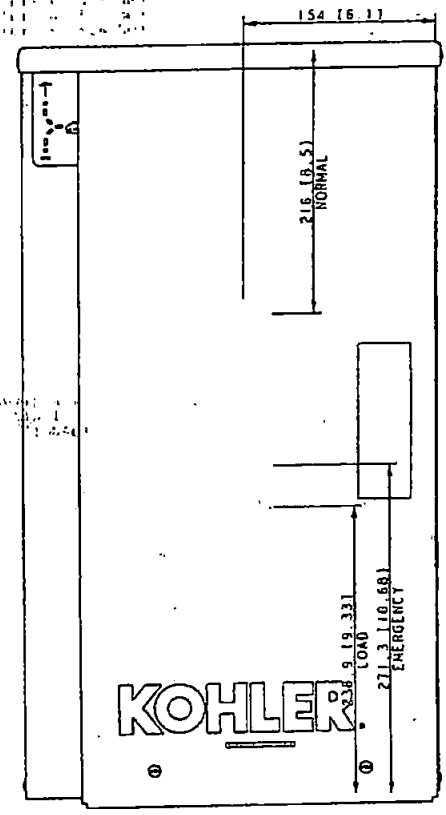
Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® generator distributor for availability.

A. SCREW TYPE TERMINALS FOR EXTERNAL POWER CONNECTION

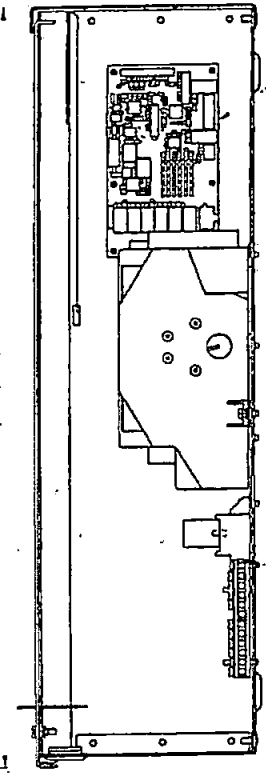
SWITCH RATING (AMPS)	TERMINAL TYPE	TERMINAL SIZE	TERMINAL SPACING
100	SCREW TYPE	NO. 10-32	1.50 (38.1)
200	SCREW TYPE	NO. 10-32	1.50 (38.1)



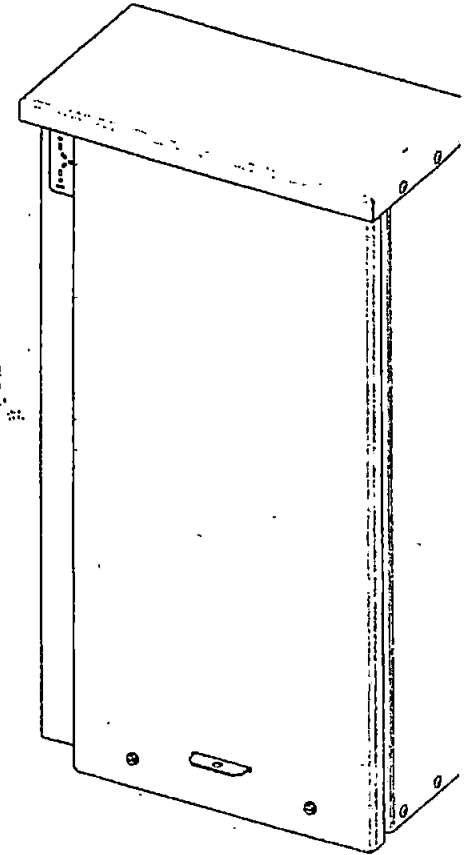
100A CONTACTOR
(COVER REMOVER TO SHOW DETAIL)



ALTERNATE 100A CONTACTOR VIEW



SECTION A-A

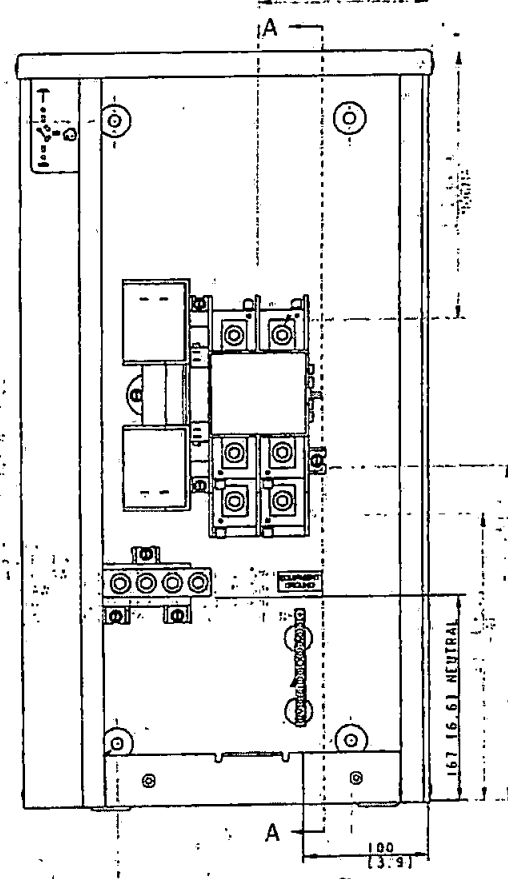
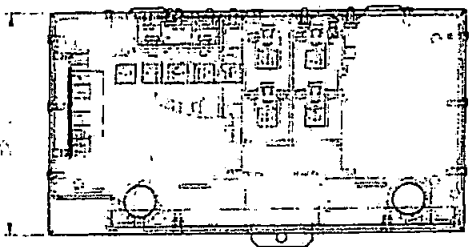


B. GROUND TORQUE
LARGE HOLE SMALL HOLE

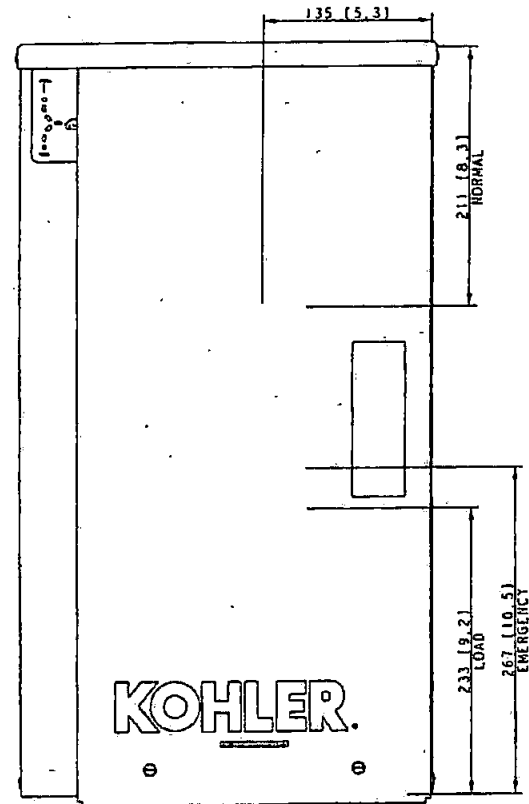
KOHLER CO. [METRIC] P

DIMENSION PRINT 100-200 SINGLE P

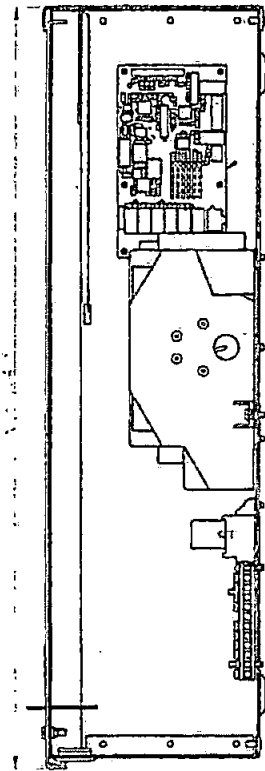
ADV-8688



200A CONTACTOR
(COVER REMOVED TO SHOW DETAIL)



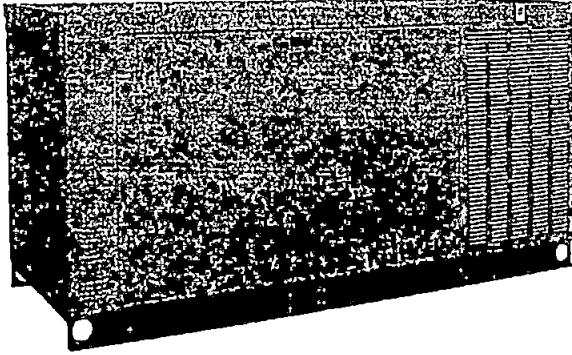
ALTERANTE 200A CONTACTOR VIEW



SECTION A-A

KOHLER CO. METRIC P
DIMENSION PRINT 100-200 SINGLE P
ADV-8688

Kohler 60RCLB Natural Gas Specs



The Kohler® Advantage

- **High Quality Power**
Kohler generators provide advanced voltage and frequency regulation along with ultra-low levels of harmonic distortion for excellent generator power quality to protect your valuable electronics.
- **Fast Response**
Kohler's Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth permanent magnet (PM)-excited alternator.
- **Quiet Operation**
Kohler home generators provide quiet, neighborhood-friendly performance.
- **Premium 5-year/2000 hr Limited Warranty Included**
Kohler is known for extraordinary reliability and performance. Kohler's premium limited warranty covers parts, labor, and travel for the full warranty period.
- **Aluminum Enclosure**
Attractive aluminum enclosure allows installation as close as 18 inches from your home or small business. Optional 291 kph (181 mph) wind-load-rated enclosure door kit is available for field installation.

Standard Features

- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set accepts rated load in one step.
- A premium 5-year/2000-hour limited warranty covers all systems and components.
- Quick-ship (QS) models with selected features are available. See your Kohler dealer for details.
- GFCI service outlet installed on the junction box.
- RDC2 Controller
 - One digital controller manages both the generator set and transfer switch functions (with optional Model RXT ATS).
 - Designed for today's most sophisticated electronics.
 - Electronic speed control responds quickly to changing demand.
 - Digital voltage regulation protects your valuable electronics from harmonic distortion and unstable power quality.
 - OnCue® Plus Generator Management System for remote monitoring is included with the generator.
- Engine Features
 - Powerful and reliable Kohler 6.2L liquid-cooled engine
 - Electronic engine management system.
 - Simple field conversion between natural gas and LP vapor fuels while maintaining emission certification. (Optional dual fuel automatic changeover kit is available.)
- Innovative Cooling System
 - Electronically controlled fan speeds minimize generator set sound signature.
- Approved for stationary standby applications in locations served by a reliable utility source.
- Certifications
 - The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA) to conform to the New Source Performance Standard (NSPS) for stationary spark-ignited emissions.
 - cUL/UL listing, CSA certification standard are available.
 - Accepted by the Massachusetts Board of Registration of Plumbers and Gas Fitters.
 - Meets NFPA 37 requirements for 18 in. offset for installation.

Generator Set Ratings

Alternator	Voltage	Ph	Hz	Standby Ratings Natural Gas		Standby Ratings LPG		Line Circuit Breaker	
				kW/kVA	Amps	kW/kVA	Amps	Amps	Poles
4P10X	120/240*	1	60	58/58	242	60/60	250	—	—
	120/208	3	60	60/75	209	60/75	209	225	3
	127/220*	3	60	60/75	197	60/75	197	—	—
	120/240	3	60	60/75	181	60/75	181	200	3
	277/480	3	60	60/75	91	60/75	91	100	3
4Q10X	120/240	1	60	58/58	242	60/60	250	250	2

* Voltage configuration not available from the factory. Field-adjustable by an authorized service technician.

† 50 Hz options are available. Contact your Customer Service representative.

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. **Standby Ratings:** Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. Obtain technical information bulletin T18-101 for ratings guidelines, complete ratings definitions, and site condition details. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Availability is subject to change without notice. Contact your local Kohler generator dealer for availability.

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating Field
Exciter type	Brushless, Rare-Earth Permanent Magnet
Leads: quantity, type	12, Reconnectable
4P10X	4, 110-120/220-240
4Q10X	Solid State, Volts/Hz
Voltage regulator	NEMA MG1
Insulation:	Class H
Material	130°C, Standby
Temperature rise	1, Sealed
Bearing: quantity, type	Flexible Disc
Coupling	Full
Amortisseur windings	± 1.0% RMS
Voltage regulation, no-load to full-load	100% of Rated Standby Current
Unbalanced load capability	100% of Rating
One-step load acceptance	(35% dip for voltages below)
Peak motor starting kVA:	275 (60 Hz)
480 V, 400 V 4P10X (12 lead)	144 (60 Hz)
240 V, 220 V 4Q10X (4 lead)	

- The unique Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator.
- Brushless, rotating-field alternator.
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and drip-proof construction.
- Windings are vacuum-impregnated with epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.
- Total harmonic distortion (THD) from no load to full load with a linear load is less than 3.5%.

Application Data

Engine

Engine Specifications	60 Hz
Manufacturer	Kohler
Engine: model, type	KG620B 6.2L Natural Aspiration
Cylinder arrangement	V-8
Rated rpm	1800
Displacement, L (cu. in.)	6.2 (378)
Bore and stroke, mm (in.)	101.6 x 95.25 (4.00 x 3.75)
Compression ratio	10.5:1
Max. power at rated rpm, kW (HP)	77.0 (103)
Cylinder head material	Cast Aluminum
Piston type and material	High Silicon Aluminum
Crankshaft material	Cast Iron
Valve (exhaust) material	Forged Steel
Governor type	Electronic
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±1.0%
Frequency	Fixed
Air cleaner type	Dry

Engine Electrical

Engine Electrical System	
Ignition system	Electronic
Battery charging alternator:	
Ground (negative/positive)	Negative
Volts (DC)	12
Ampere rating	130
Starter motor rated voltage (DC)	12
Battery, recommended cold cranking amps (CCA):	
Qty., rating for -18°C (0°F)	One, 630
Battery voltage (DC)	12
Battery group size	24

Exhaust

Exhaust System	60 Hz
Exhaust manifold type	Dry
Exhaust flow at rated kW, m ³ /min. (cfm)	16.4 (580)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	649 (1200)
Maximum allowable back pressure, kPa (in. Hg)	10.2 (3.0)
Exhaust outlet size at engine hookup, mm (in.)	76 (3.0) OD

Fuel

Fuel System	
Fuel type	LP Gas or Natural Gas
Fuel supply line inlet	1 in. NPT
Natural gas fuel supply pressure, kPa (in. H ₂ O)	1.2-2.7 (5-11)
LPG vapor withdrawal fuel supply pressure, kPa (in. H ₂ O)	1.2-2.7 (5-11)

Fuel Composition Limits *	Nat. Gas	LP Gas
Methane, % by volume	92 min.	—
Ethane, % by volume	4.5 max.	—
Propane, % by volume	1.0 max.	87 min.
Propene, % by volume	0.1 max.	5.0 max.
C ₄ and higher, % by volume	0.3 max.	2.5 max.
Sulfur, ppm mass		25 max.
Lower heating value, MJ/m ³ (Btu/ft ³), min.	33.2 (890)	84.2 (2260)

* Fuels with other compositions may be acceptable. If your fuel is outside the listed specifications, contact your local distributor for further analysis and advice.

Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, L (qt.)	5.7 (6.0)
Oil pan capacity with filter, L (qt.)	7.1 (7.5)
Oil filter: quantity, type	1, Cartridge

Application Data

Cooling

Radiator System	60 Hz
Ambient temperature, °C (°F)	45 (113)
Radiator system capacity, including engine, L (gal.)	21.3 (5.6)
Engine jacket water flow, Lpm (gpm)	131 (34.6)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	54 (3070)
Water pump type	Centrifugal
Fan diameter, mm (in.)	qty. 3 @ 356 (14)
Fan power requirements (powered by engine battery charging alternator)	12VDC, 18 amps each

Operation Requirements*

Air Requirements	60 Hz
Radiator-cooled cooling air, m ³ /min. (scfm)†	62.2 (2200)
Air over engine, m ³ /min. (cfm)	31.1 (1100)
Combustion air, m ³ /min. (cfm)	5.5 (195)

† Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption‡

Natural Gas, m ³ /hr. (cfh) at % load	60 Hz
100%	28.7 (1013)
75%	21.6 (761)
50%	14.0 (493)
25%	7.0 (248)

LP Gas, at % load	m ³ /hr. (cfh)	Gal/hr.
100%	10.1 (357)	9.8
75%	7.2 (255)	7.0
50%	5.4 (191)	5.2
25%	3.2 (113)	3.1

‡ Nominal Fuel Rating: Natural gas, 37 MJ/m³ (1000 Btu/ft³)
LP Vapor, 93 MJ/m³ (2500 Btu/ft³)

LP vapor conversion factors:
8.58 ft.³ = 1 lb.
0.535 m³ = 1 kg.
36.39 ft.³ = 1 gal.

* 50 Hz Operation Requirements are available upon request.

Sound Enclosure Features

- Sound-attenuating enclosure uses acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption.
- Internally mounted critical silencer.
- Skid-mounted, aluminum construction with two removable access panels.
- Scratch- and corrosion-resistant Kohler® cashmere powder-baked finish.

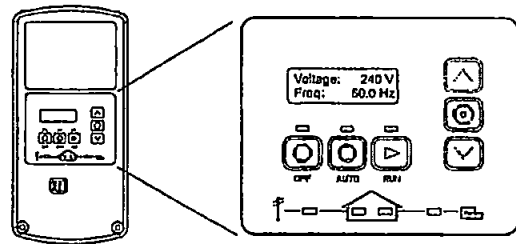
Sound Data

Model 60RCLB sound levels are 61 dB(A) during weekly engine exercise and 61 dB(A) during normal operation.*

All sound levels are measured at a distance of 23 ft. (7 m) from the generator set..

* Lowest of 8 points measured around the generator. Sound levels at other points around generator may vary depending on installation parameters.

RDC2 Controller



The RDC2 controller provides integrated control for the generator set, Kohler® Model RXT transfer switch, programmable interface module (PIM), and load shed kit.

The RDC2 controller's 2-line LCD screen displays status messages and system settings that are clear and easy to read, even in direct sunlight or low light.

RDC2 Controller Features

- Membrane keypad:
 - OFF, AUTO, and RUN pushbuttons
 - Select and arrow buttons for access to system configuration and adjustment menus
- LED indicators for OFF, AUTO, and RUN modes
- LED indicators for utility power and generator set source availability and ATS position (Model RXT transfer switch required)
- LCD screen:
 - Two lines x 16 characters per line
 - Backlit display with adjustable contrast for excellent visibility in all lighting conditions
- Scrolling system status display
 - Generator set status
 - Voltage and frequency
 - Engine temperature
 - Oil pressure
 - Battery voltage
 - Engine runtime hours
- Date and time displays
- Smart engine cooldown senses engine temperature
- Digital isochronous governor to maintain steady-state speed at all loads
- Digital voltage regulation: ± 1.0% RMS no-load to full-load
- Automatic start with programmed cranking cycle
- Programmable exerciser can be set to start automatically on any future day and time, and to run every week or every two weeks
- Exercise modes
 - Unloaded exercise with complete system diagnostics
 - Unloaded full-speed exercise
 - Loaded full-speed exercise (Model RXT ATS required)
- Front-access mini USB connector for SiteTech™ connection
- Integral Ethernet connector for Kohler® OnCue® Plus
- Built-in 2.5 amp battery charger
- Remote two-wire start/stop capability for optional connection of a Model RDT transfer switch

See additional controller features on the next page.

Additional RDC2 Controller Features

- Diagnostic messages
 - Displays diagnostic messages for the engine, generator, Model RXT transfer switch, programmable interface module (PIM), and load shed kit
 - Over 70 diagnostic messages can be displayed
- Maintenance reminders
- System settings
 - System voltage, frequency, and phase
 - Voltage adjustment
 - Measurement system, English or metric
- ATS status (Model RXT ATS required)
 - Source availability
 - ATS position (normal/utility or emergency/generator)
 - Source voltage and frequency
- ATS control (Model RXT ATS required)
 - Source voltage and frequency settings
 - Engine start time delay
 - Transfer time delays
 - Fixed pickup and dropout settings
 - Voltage calibration
- Programmable Interface Module (PIM) status displays
 - Input status (active/inactive)
 - Output status (active/inactive)
- Load control menus
 - Load status
 - Test function

Generator Set Standard Features

- Aluminum sound enclosure with enclosed silencer
- Battery rack and cables
- Coolant in generator
- cUL/UL 2200 listed, CSA certified
- Electronic, isochronous governor
- Engine-generator set is designed and manufactured in facilities certified to ISO:9001.
- Flexible fuel line
- Gas fuel system (includes fuel mixer, electronic secondary gas regulator, two gas solenoid valves, and flexible fuel line between the engine and the skid-mounted fuel system components)
- GFCI service outlet (120/240 V) for customer connections
- Integral vibration isolation
- Line circuit breaker
- NEC prime mover shutdown switch
- Oil drain extension
- OnCue® Plus for remote monitoring
- Operation and installation literature
- RDC2 controller with built-in battery charger
- Standard 5-year/2000-hour premium warranty

Available Options

Electrical System

- Battery
- Battery Heater
- OnCue® Plus Wireless Radio Kit

Available Options (continued)

Fuel System

- Dual Fuel Automatic Changeover Kit with Reset Box

Enclosure Option

- 291 kph (181 mph) Wind Load Rated Enclosure

Starting Aids §

- Block Heater, 1500 W, 120 V*
- Block Heater, 1500 W, 240 V

* Single phase QS available with factory installed block heater
 § Recommended for ambient temperatures below 0°C (32°F)

Controller Accessories

- Lockable Enclosure or Remote Mount Emergency Stop (lockout/tagout)
- Programmable Interface Module (PIM) (provides 2 digital inputs and 6 relay outputs)

Automatic Transfer Switches and Accessories

- Model RXT Automatic Transfer Switch with Combined Interface/Load Management Board
- Model RDT Automatic Transfer Switch
- Load Shed Kit for RDT or RXT
- Power Relay Modules (use up to 4 relay modules for each load management device)
- Other Kohler® ATS

Miscellaneous

- Maintenance Kit (includes air filter, oil, oil filter, and spark plugs)

Literature

- General Maintenance Literature Kit
- Overhaul Literature Kit
- Production Literature Kit

Warranty

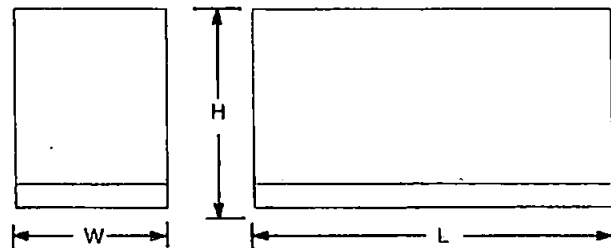
- Extended 7-Year/2000 Hour Premium Limited Warranty
- Extended 10-Year/2000 Hour Premium Limited Warranty

Dimensions and Weights

Overall Size, L x W x H, mm (in.): 2280 x 836 x 1182
 (89.8 x 32.9 x 46.5)

Shipping Weight, wet, kg (lb.): 859 (1894)

Weight includes generator set with engine fluids and 4Q10X alternator, sound enclosure, and silencer.



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local dealer for more detailed information.

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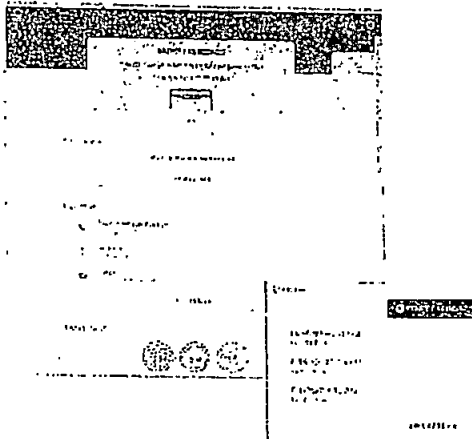
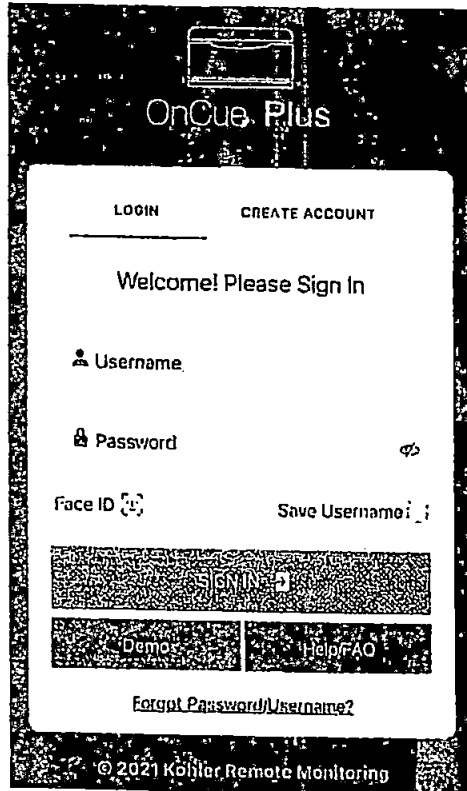
Remote Monitoring

Residential/Light Commercial Generator Accessories

KOHLER.

Kohler® OnCue® Plus Generator Management System

9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED



OnCue® Plus is a remote monitoring application that is included with Residential and Light Commercial generators equipped with the controllers listed below. It allows you to access your generator from a computer or smart device anytime, anywhere. You can easily monitor and control your generator set using this application.

Applicable Models

OnCue Plus can be used with Kohler Residential and Light Commercial generator sets equipped with the following controllers:

- RDC2 or DC2 Controller
- RDC or DC Controller
- VSC Controller (6VSG variable-speed DC generator set)

The optional OnCue Plus wireless kit is available for generator sets equipped with the following controllers:

- RDC2 or DC2 Controller
- VSC Controller (6VSG variable-speed DC generator set)

OnCue Plus Features

- Simple activation, required just once for each generator.
- Monitor your complete Kohler power system, including the generator, RXT automatic transfer switch, Load Control Module (LCM)*, and Programmable Interface Module (PIM)†.
- Control home automation when the generator set is paired with a Programmable Interface Module (PIM)†. Remote control features:
 - Remotely turn appliances, outdoor lighting, storm shutters, or other electrical equipment on or off.
 - The generator does not need to be running in order to use OnCue Plus for remote control of circuits connected to the PIM.
- Monitor total generator power and percent of generator's rated power on models equipped with a model RXT transfer switch and load shed accessory.*
- Monitor multiple generator sets on one account.
- View time- and date-stamped event history listing generator set starting and stopping, faults, and notifications. (RDC2)
- Receive generator alerts by email, text message, or push notifications on your mobile device or PC. Customize messages by selecting the events that will prompt a notification to be sent to each recipient.
- Start and stop generator exercises from your computer or mobile device, or using the OnCue Plus action/skill on Google Assistant or Amazon Alexa.
- Controller password and generator set serial number protect against access by unauthorized users.

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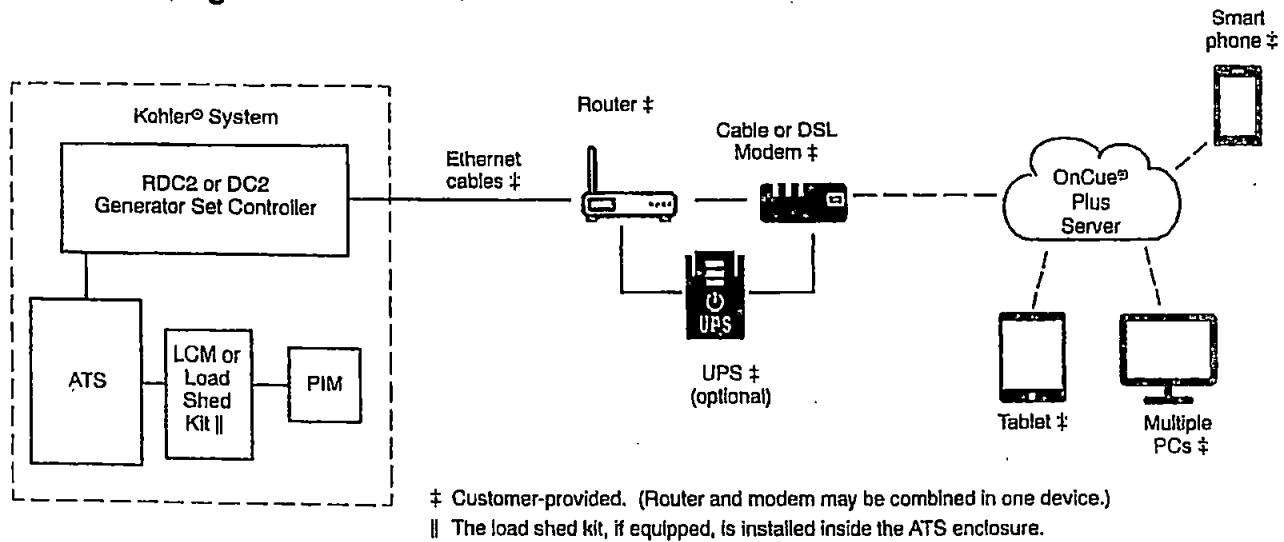
* Model RXT automatic transfer switch and LCM can be used with generator sets equipped with the RDC2 or DC2 controller.

† PIM can be used with generator sets equipped with the RDC2, DC2, or VSC controller.

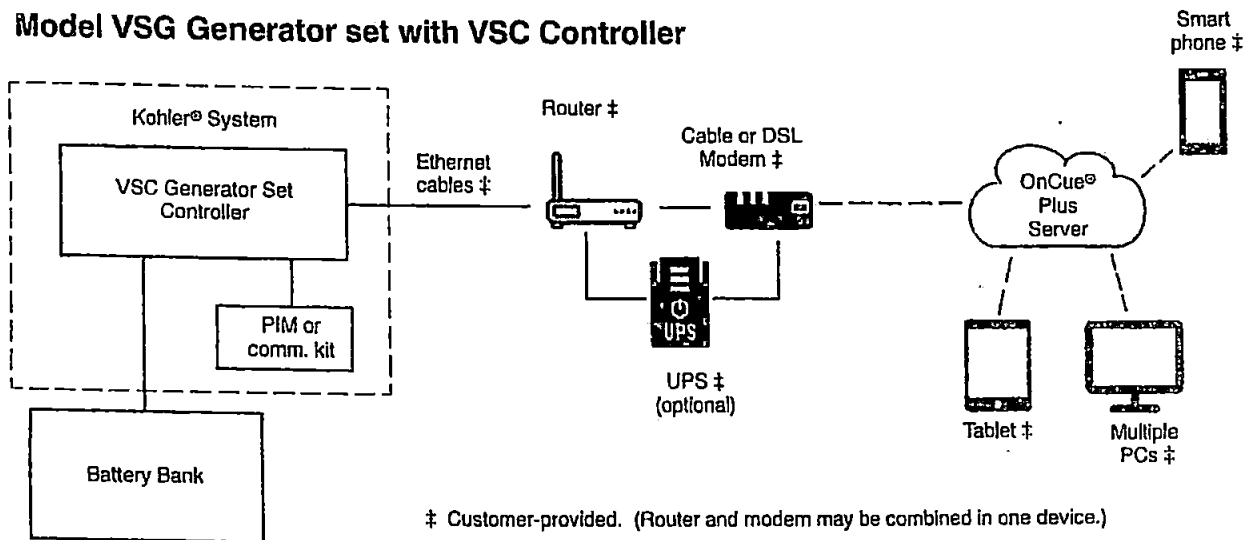
Note: Views shown in this document are samples. Actual views may vary based on customer application and OnCue Plus program updates.

Typical Connections (using cables)

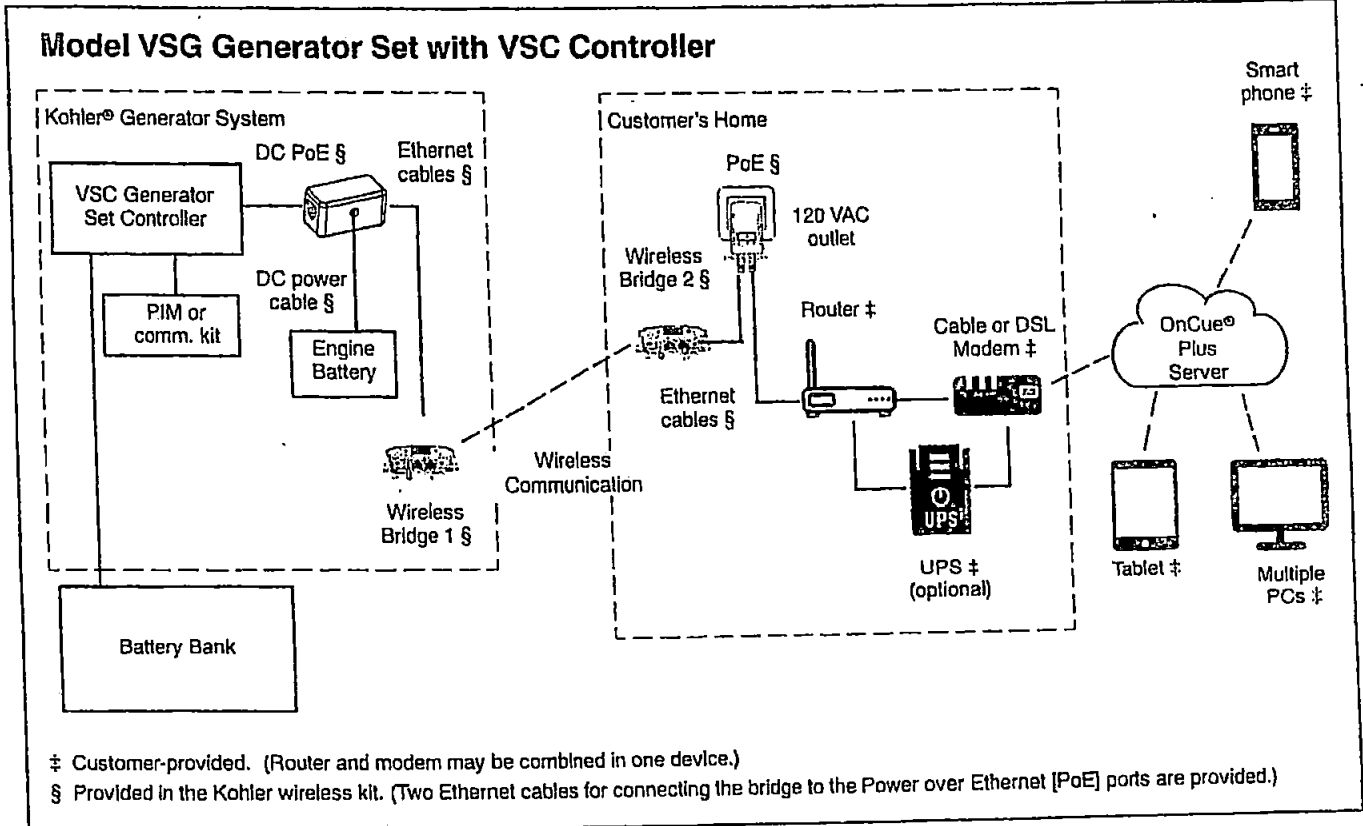
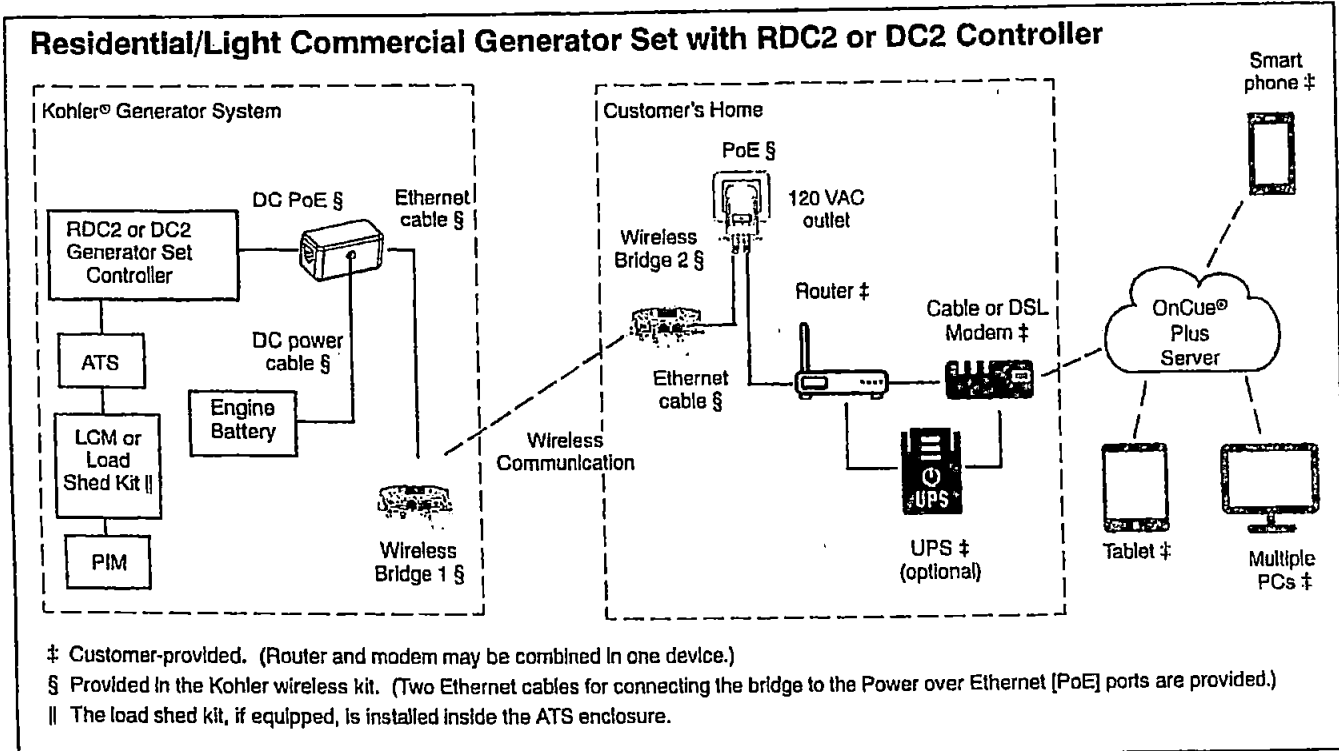
Residential/Light Commercial Generator Set with RDC2 or DC2 Controller



Model VSG Generator set with VSC Controller



Typical Connections (using wireless kit)



System Requirements

- Personal computer (PC) requires one of these Internet browsers:
 - Google Chrome
 - Apple Safari
 - Microsoft Edge 79+
 - Firefox
- Mobile devices require Android™ 5.0 or higher or iOS 11.0 or higher
- Always-on Internet access for the generator (for example, cable, DSL, or phone line modem connected 24 hours a day)
- Amazon Alexa or Google Assistant application on smart devices to access voice control (optional)
- OnCue Plus wireless kit (optional)
- Uninterruptible power supply (UPS) for modem and router (optional)
- See the connection diagrams for customer-provided cables and equipment

Wireless Bridge Specifications

- Environmental specifications:
 - Operating temperature: -30 to 55°C (-22 to 131°F)
 - Storage temperature: -40 to 70°C (-40 to 158°F)
 - Humidity: 5% to 95% (typical)
 - Waterproof level IP65
- Dimensions. L x W x H: 168 x 88 x 48 mm (6.6 x 3.5 x 1.9 in.)
- RF Frequency: 5.150- 5.850 GHz
- Regulatory Compliance:
 - CE-LVD
 - EN 60950-1:2006 + A1; 2009 + A1; 2010 + A12; 2011 + A2; 2013
 - IEC 60950-1: 2005 +A1; 2009 + A2; 2013
- Protocol/Standard
 - IEEE 802.3 (Ethernet)
 - IEEE 802.3u (Fast Ethernet)
 - IEEE 802.11b/g/n/ac
- Power Specification:
 - DC PoE: 24 VDC @ 0.5A
- Wireless Bridge Operating Specifications:
 - Voltage 100-240 VAC
 - Frequency 50-60 Hz
 - Input current 300 mA max. @ 90 VAC min.
- LEDs for power and network connection status

* Model RXT automatic transfer switch and Load Control Module (LCM), load shed kit, or combined interface/load management board can be used with generator sets equipped with the RDC2 or DC2 controller.

† PIM can be used with generator sets equipped with the RDC2, DC2, or VSC controller.

View System Operation Data

Generator Set

- Home is powered by the generator or utility power
- Generator set status: running, standby, shutdown, or off
- Active fault indication
- Generator voltage
- Engine starting battery voltage, VDC
- Frequency, Hz
- Generator event history
- Event details, including description, time, and date
- Exercise type
- Next scheduled exercise date and time (estimated based on last exercise date and time)
- Over 20 different parameters
- Generator power, in kW (LCM required*)
- Engine hours
- Last exercise date and time
- Exercise interval, duration and mode

Load Management *

- Loads are added or shed automatically based on generator load
- View connected loads
- On/Off indicators for each circuit indicate status (powered or shed)
- Change load labels to identify the connected circuits

Programmable Interface Module (PIM) †

- View relay status
- On/Off indicators show connected circuits
- Change input and output labels to identify connected circuits

6VSG Communications Kit

- View input and output status
- On/Off indicators show connected circuits

Voice Activation

- Use Google Assistant or Amazon Alexa to control your generator by using your voice.
- Easy setup:
 - Confirm the setup of your OnCue Plus account.
 - Search for OnCue Plus action/skill on the Google Assistant or Amazon Alexa app and follow the simple step-by-step guide to link the accounts.
 - Start talking to your Kohler generator(s) by saying, "Hey Google, ask OnCue Plus," or "Alexa, ask OnCue Plus."
- Sample voice commands:
 - What is the status of my generator?
 - Does my generator have any active alerts?
 - What's the battery voltage?
 - What's the oil temperature?
 - What's the engine temperature?
 - When was my last exercise?
 - Start an exercise.
 - Stop an exercise.
 - Change my exercise details.

Notifications

Email, text messages, and push notifications are sent for the following events. Notifications for selected events can be turned off or on for different recipients. Push notifications can be turned on or off using a smart phone or tablet, and then viewed on a smart phone, tablet, or personal computer.

- Exercise Start
- Exercise Ended
- Generator Running
- Generator Stopped
- Generator Not in Auto/ In Auto
- Utility Loss/ Restored
- Communication Loss/ Restored
- Warnings Active/Cleared (includes maintenance reminders)
- Shutdowns Active/Reset

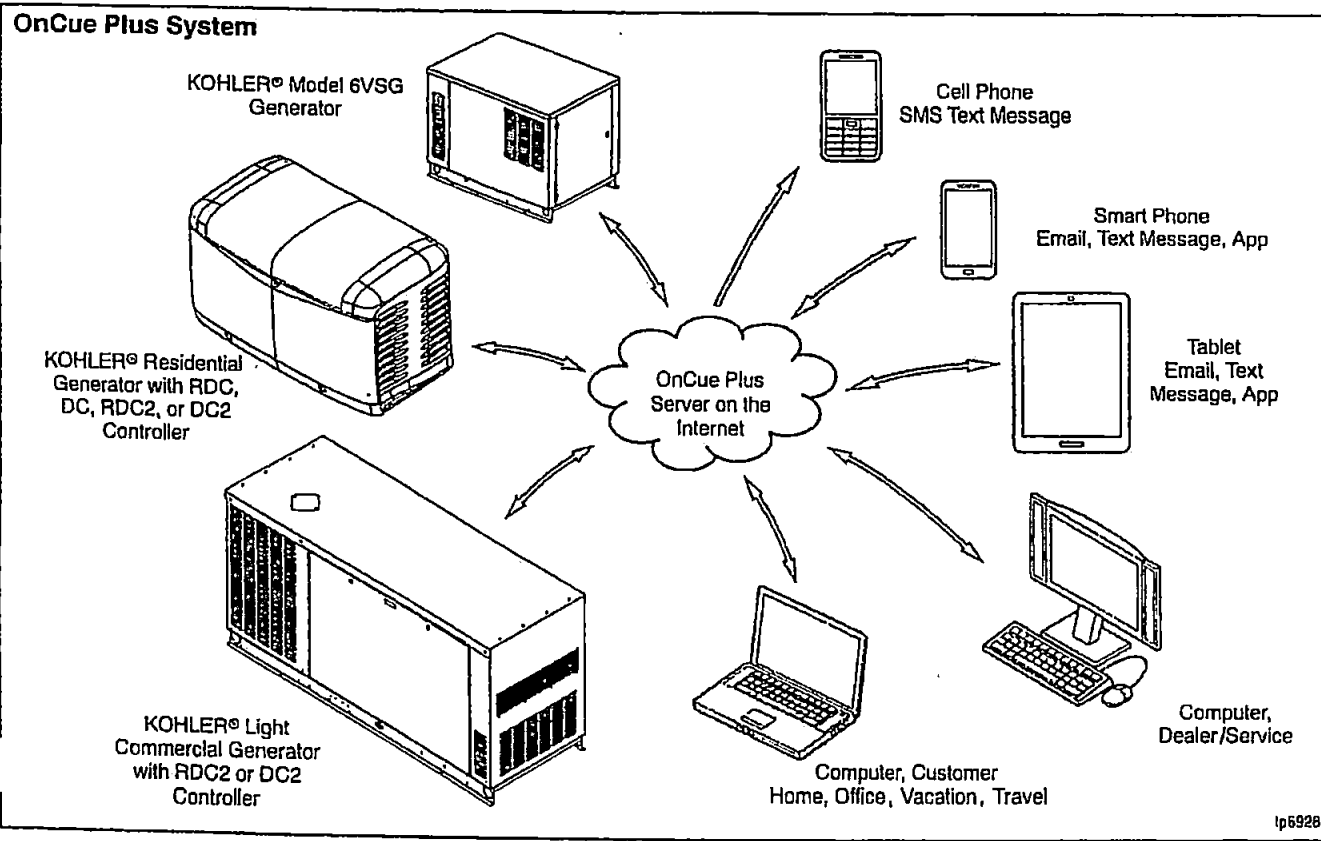
Remote Control/Home Automation

Generator Set

- Start/stop exercises remotely
- Manage exercise interval, duration and mode

Programmable Interface Module (PIM)‡

- Allows remote control of appliances and other electrical devices in your home
- Use your PC or mobile device to turn your lights or appliances on and off from any location with Internet access
- The generator does not need to be running in order to use OnCue Plus for remote control of circuits connected to the PIM.



OnCue® Plus System Kit

Included with every Residential and Light Commercial generator set that is equipped with the RDC2 or VSG controller.

- Activation code decal
- Ethernet connector
- User manual
- Technical Manual

OnCue® Plus Wireless Kit

Optional kit provides wireless connectivity between the generator controller and the homeowner's router.

- Wireless bridges (quantity 2)
- AC power over Ethernet port
- DC power over Ethernet port
- DC power cable
- Ethernet cables (quantity 2 for power over Ethernet connection to wireless bridges)
- Installation instructions with connection diagrams

DISTRIBUTED BY:

Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® generator distributor for availability.

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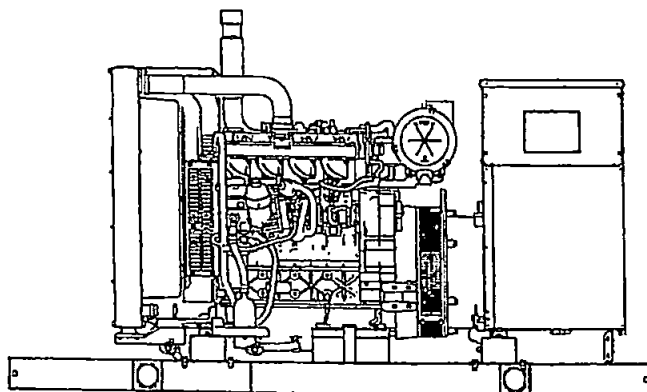
Kohler 60 REOZK Diesel Specs



Tier 3 EPA-Certified for Stationary Emergency Applications

Ratings Range

		60 Hz
Standby:	kW	56-60
	kVA	56-75
Prime:	kW	48-54
	kVA	48-67



Model with TM Engine Shown

Generator Set Ratings

Alternator	Voltage	Ph	Hz	130°C Rise Standby Rating		105°C Rise Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
4P8X	120/208	3	60	60/75	208	54/67	187
	127/220	3	60	60/75	196	54/67	177
	120/240	3	60	60/75	180	54/67	162
	120/240	1	60	56/56	233	48/48	200
	139/240	3	60	60/75	180	54/67	162
	220/380	3	60	60/75	113	54/67	102
	277/480	3	60	60/75	90	54/67	81
347/600	3	60	60/75	72	54/67	64	
4P10X	120/208	3	60	60/75	208	54/67	187
	127/220	3	60	60/75	196	54/67	177
	120/240	3	60	60/75	180	54/67	162
	120/240	1	60	58/58	241	50/50	208
	139/240	3	60	60/75	180	54/67	162
	220/380	3	60	60/75	113	54/67	102
	277/480	3	60	60/75	90	54/67	81
347/600	3	60	60/75	72	54/67	64	
4Q8X	120/240	1	60	56/56	233	50/50	208
4Q10X	120/240	1	60	58/58	241	50/50	208

Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- Approved for use with certified renewable Hydrotreated Vegetable Oil (HVO) / Renewable Diesel (RD) fuels compliant with EN15940 / ASTM D975.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- The generator set engine is certified to meet the Environmental Protection Agency (EPA) emergency stationary emissions requirements.
- A one-year limited warranty covers all generator set systems and components. Two- and five-year extended limited warranties are also available.
- Alternator features:
 - The unique Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator.
 - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
 - Kohler designed controllers for one-source system integration and remote communication. See Controllers on page 3.
 - The low coolant level shutdown prevents overheating (standard on radiator models only).
 - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
 - The generator set for 49-state applications is equipped with the KDI 3404 TM engine. The generator set that is CARB compliant/California South Coast Air Quality Management District (SCAQMD) pre-certified is equipped with the KDI 3404 TCR engine.

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. **Standby Ratings:** Standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. **Prime Power Ratings:** At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain the technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Rare-Earth Permanent Magnet
Leads: quantity, type	12, Reconnectable
	4, 110- 120/220- 240 V
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	Controller Dependent
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and drip-proof construction.
- Windings are vacuum-impregnated with epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.

Specifications	Alternator
Peak motor starting kVA:	(35% dip for voltages below)
480 V 4P8X (12 lead)	261
480 V 4P10X (12 lead)	275
240 V 4Q8X (4 lead)	121
240 V 4Q10X (4 lead)	144

Application Data

Engine

Engine Specifications	49-State Engine	California SCAQMD
Manufacturer	Kohler Diesel	
	KDI	KDI
Engine model	3404TM	3404TCR
Engine type	4-Cycle, Turbocharged	
Cylinder arrangement	4 Inline	
Displacement, L (cu. in.)	3.4 (207)	
Bore and stroke, mm (in.)	96 x 116 (3.28 x 4.57)	
Compression ratio	18.5:1	17.0:1
Piston speed, m/min. (ft./min.)	418 (1371)	510 (1673)
Main bearings: quantity, type	5, Replaceable Insert	
Rated rpm	1800	
Max. power at rated rpm, kWm (BHP)	70 (94)	
Cylinder head material	Cast Iron	
Crankshaft material	Cast Iron	
Valve material:		
Intake	Chromium-Silicon Steel	
Exhaust	Chromium Steel	
Governor: type, make/model	Mech. (or Electronic *)	Electronic
	Droop, 5% (or Isochr. *)	Isochronous
Frequency regulation, no-load to full-load	±0.5%	±0.28%
Frequency regulation, steady state		Fixed
Frequency		Dry
Air cleaner type, all models		
* Requires available electronic governor option		

Engine Electrical

Engine Electrical System	49-State Engine	California SCAQMD
Battery charging alternator:		
Ground (negative/positive)		Negative
Volts (DC)		12
Ampere rating		90
Starter motor rated voltage (DC)		12
Battery, recommended cold cranking amps (CCA):		
Quantity, CCA rating		One, 650
Battery voltage (DC)		12

Fuel

Fuel System	49-State Engine	California SCAQMD
Fuel supply line, min. ID, mm (in.)	8.0 (0.31)	
Fuel return line, min. ID, mm (in.)	6.0 (0.25)	
Max. lift, engine-driven fuel pump, m (ft.)	6.0 (20.0)	3.7 (12.1)
Max. fuel flow, Lph (gph)	46 (12.2)	87.4 (23.1)
Max. return line restriction, kPa (in. Hg)	20 (5.9)	17.7 (5.2)
Fuel filter		
Pre-filter		74 Microns
Primary/Water Separator	5 Microns @ 98% Efficiency	5 Microns @ 95% Efficiency
Recommended fuel	#2 Ultra Low Sulfur Diesel / HVO / RD	

Lubrication

Lubricating System	49-State Engine	California SCAQMD
Type	Full Pressure	
Oil pan capacity, L (qt.) §	15.3 (16.2)	
Oil pan capacity with filter, L (qt.) §	15.6 (16.5)	
Oil filter: quantity, type §	1, Cartridge	
Oil cooler	Water-Cooled	
§ Kohler recommends the use of Kohler Genuine oil and filters.		

Exhaust

Exhaust System	49-State Engine	California SCAQMD
Exhaust manifold type	Dry	
Exhaust flow at rated kW, m ³ /min. (cfm)	14.3 (505)	11.5 (406)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	490 (914)	471 (880)
Minimum/maximum allowable back pressure, kPa (in. Hg)	6 (1.8)/ 9 (2.7)	8 (2.4)/ 13.5 (4.0)
Exhaust outlet size at engine hookup, mm (in.)	63.5 (2.5)	

Application Data

Cooling

Radiator System	49-State Engine	California SCAQMD
Ambient temperature, °C (°F) *	50 (122)	
Engine jacket water capacity, L (gal.)	4.5 (1.19)	
Radiator system capacity, including engine, L (gal.)	12.3 (3.2)	
Engine jacket water flow, Lpm (gpm)	125 (33)	120 (32)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	43 (2447)	47 (2675)
Heat rejected to air charge cooler at rated kW, dry exhaust, kW (Btu/min.)	14.3 (814)	10.0 (569)
Water pump type	Centrifugal	
Fan diameter, including blades, mm (in.)	597 (23.5)	
Fan, kWm (HP)	1.8 (2.3)	
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)	

* Enclosure reduces ambient temperature capability by 5°C (9°F).

Operation Requirements

Air Requirements	49-State Engine	California SCAQMD
Radiator-cooled cooling air, m ³ /min. (scfm) †	130 (4600)	
Combustion air, m ³ /min. (cfm)	5.3 (187)	4.4 (155)
Heat rejected to ambient air:		
Engine, kW (Btu/min.)	15.5 (880)	
Alternator, kW (Btu/min.)	8.9 (505)	
Max. air intake restriction, kPa (in. Hg)	5.2 (1.54)	4.2 (1.24)

† Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption**	49-State Engine	
Diesel, Lph (gph) at % load	Standby Rating	
100%	20.4	(5.4)
75%	16.3	(4.3)
50%	10.6	(2.8)
25%	6.0	(1.6)

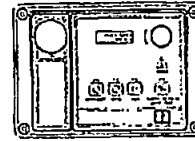
Diesel, Lph (gph) at % load	Prime Rating	
100%	18.5	(4.9)
75%	14.4	(3.8)
50%	9.8	(2.6)
25%	5.8	(1.5)

Fuel Consumption**	Calif. SCAQMD Engine	
Diesel, Lph (gph) at % load	Standby Rating	
100%	18.2	(4.8)
75%	13.7	(3.6)
50%	9.4	(2.5)
25%	5.4	(1.4)

Diesel, Lph (gph) at % load	Prime Rating	
100%	16.5	(4.4)
75%	12.6	(3.3)
50%	8.8	(2.3)
25%	4.9	(1.3)

** Volumetric Fuel consumption is up to 4% higher when using HVO/RD than #2 ULSD.

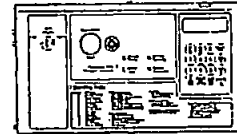
Controllers



APM402 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- Digital display and menu control provide easy local data access
 - Measurements are selectable in metric or English units
 - Remote communication thru a PC via network or serial configuration
 - Controller supports Modbus[®] protocol
 - Integrated hybrid voltage regulator with ±0.5% regulation
 - Built-in alternator thermal overload protection
 - NFPA 110 Level 1 capability
- Refer to G6-161 for additional controller features and accessories.



(Available with the 49-State generator set only.)

Decision-Maker[®] 550 Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities.

- Digital display and keypad provide easy local data access
 - Measurements are selectable in metric or English units
 - Remote communication thru a PC via network or modem configuration
 - Controller supports Modbus[®] protocol
 - Integrated voltage regulator with ±0.25% regulation
 - Built-in alternator thermal overload protection
 - NFPA 110 Level 1 capability
- Refer to G6-46 for additional controller features and accessories.

Modbus[®] is a registered trademark of Schneider Electric.

Additional Standard Features

- Air Cleaner, Heavy Duty
- Alternator Protection
- Battery Rack and Cables
- Open Crankcase Ventilation
- Oil Drain and Coolant Drain with Hose Barb
- Oil Drain Extension (with narrow skid and enclosure models only)
- Operation and Installation Literature
- Radiator Drain Extension (with enclosure models only)
- Stainless Steel Fasteners on Enclosure (with enclosure models only)

Available Options

Approvals and Listings

- CSA Certified
- IBC Seismic Certification
- UL2200 Listing

Enclosed Unit

- Sound Enclosure (with enclosed critical silencer)
- Weather Enclosure (with enclosed critical silencer)
- Stainless Steel Latches and Hinges

Open Unit

- Exhaust Silencer, Critical (kit: PA-324470)
- Flexible Exhaust Connector, Stainless Steel

Fuel System

- Flexible Fuel Lines
- Fuel Pressure Gauge (Available with 49-state engine only)
- Subbase Fuel Tanks

Controller

- 15-Relay Dry Contact (SCAQMD engine with APM402 controller only)
- Common Failure Relay (550 controller only)
- Communication Products and PC Software (550 controller only)
- Customer Connection (550 controller only)
- Dry Contact (isolated alarm) (550 controller only)
- Two Input/Five Output Module (49-state engine with APM402 controller only)
- Key Switch (SCAQMD engine with APM402 controller only)
- Manual Speed Adjust (requires Electronic Governor or SCAQMD engine)
- Remote Annunciator Panel
- Remote Emergency Stop
- Run Relay

Cooling System

- Block Heater (1000 W, 110- 120 V)
Recommended for ambient temperatures below 20°C (68°F).
- Block Heater (1400 W, 110- 120 V)
Recommended for ambient temperatures below 0°C (32°F).
- Radiator Duct Flange

Electrical System

- Alternator Strip Heater
- Battery
- Battery Charger, Equalize/Float Type
- Battery Heater
- Electronic Governor
- Line Circuit Breaker (NEMA type 1 enclosure)
- Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)

Miscellaneous

- Air Cleaner Restriction Indicator
- Engine Fluids Added
- Rated Power Factor Testing
- Rodent Guards

Literature

- General Maintenance
- NFPA 110
- Overhaul
- Production

Warranty

- 2-Year Basic Limited Warranty
- 5-Year Basic Limited Warranty
- 5-Year Comprehensive Limited Warranty

Other Options

- _____
- _____
- _____
- _____
- _____

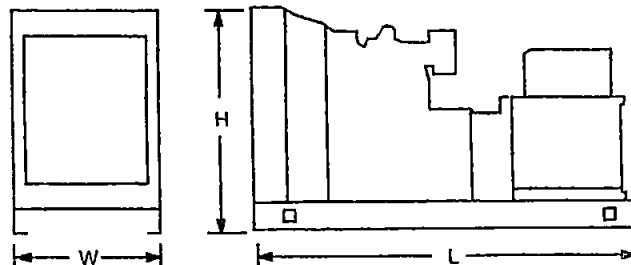
Dimensions and Weights

Overall Size, L x W x H, mm (in.):

Wide Skid: 2300 x 1040 x 1131 (90.6 x 40.9 x 44.5)

Narrow Skid: 1871 x 780 x 1055 (73.6 x 30.7 x 41.5)

Weight (radiator model), wet, kg (lb.): 841 (1855)



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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Applicable to the following:
15-60REOZK

Weather Enclosure Standard Features

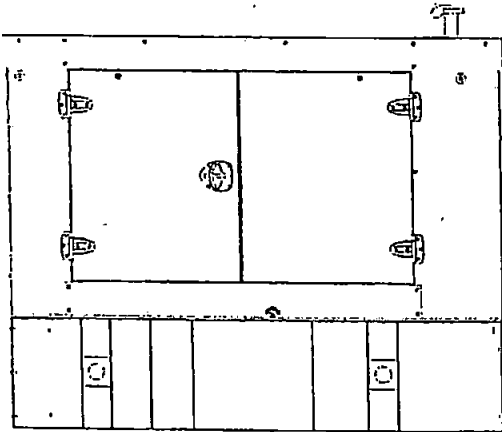
- Internal-mounted silencer and flexible exhaust connector.
- Lift base or tank-mounted, steel construction with hinged doors on the service side and easily removable panels on the non-service side.
- Fade-, scratch-, and corrosion-resistant Kohler® Power Armor™ automotive-grade textured finish.
- Enclosure has four large access doors/panels which allow for easy maintenance.
- Lockable, flush-mounted door latches.
- Horizontal air inlet and vertical outlet discharge to redirect air and reduce noise.

Sound Enclosure Standard Features

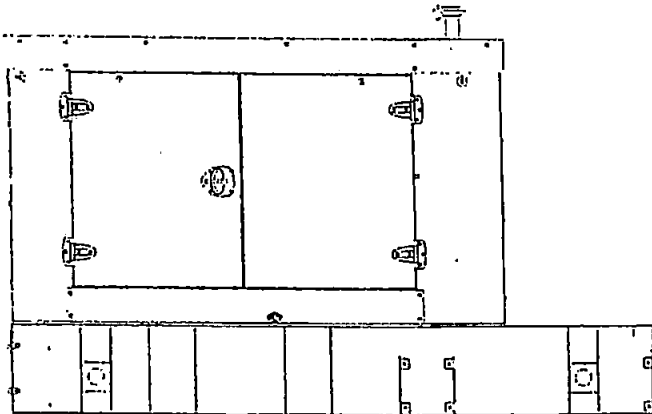
- Includes all of the weather enclosure features with the addition of acoustic insulation material.
- Lift base or tank-mounted, steel or aluminum construction. Aluminum enclosures are recommended for high humidity and/or high salt/ coastal regions.
- Acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption.
- Sound attenuated enclosure that uses up to 51 mm (2 in.) of acoustic insulation.
- Aluminum sound enclosure is certified to 186 mph (299 kph) wind load rating.

Subbase Fuel Tank Features

- The fuel tank has a Power Armor Plus™ textured epoxy-based rubberized coating.
- 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 generator set base tank meets UL 142 tank requirements. The inner (primary) tank is sealed inside the outer (secondary) tank. The outer tank contains the fuel if the inner tank leaks or ruptures.
- State tanks with varying capacities are an available option. Florida Dept. of Environmental Protection (FDEP) File No. EQ-634 approved.



Enclosure with Standard Subbase Fuel Tank



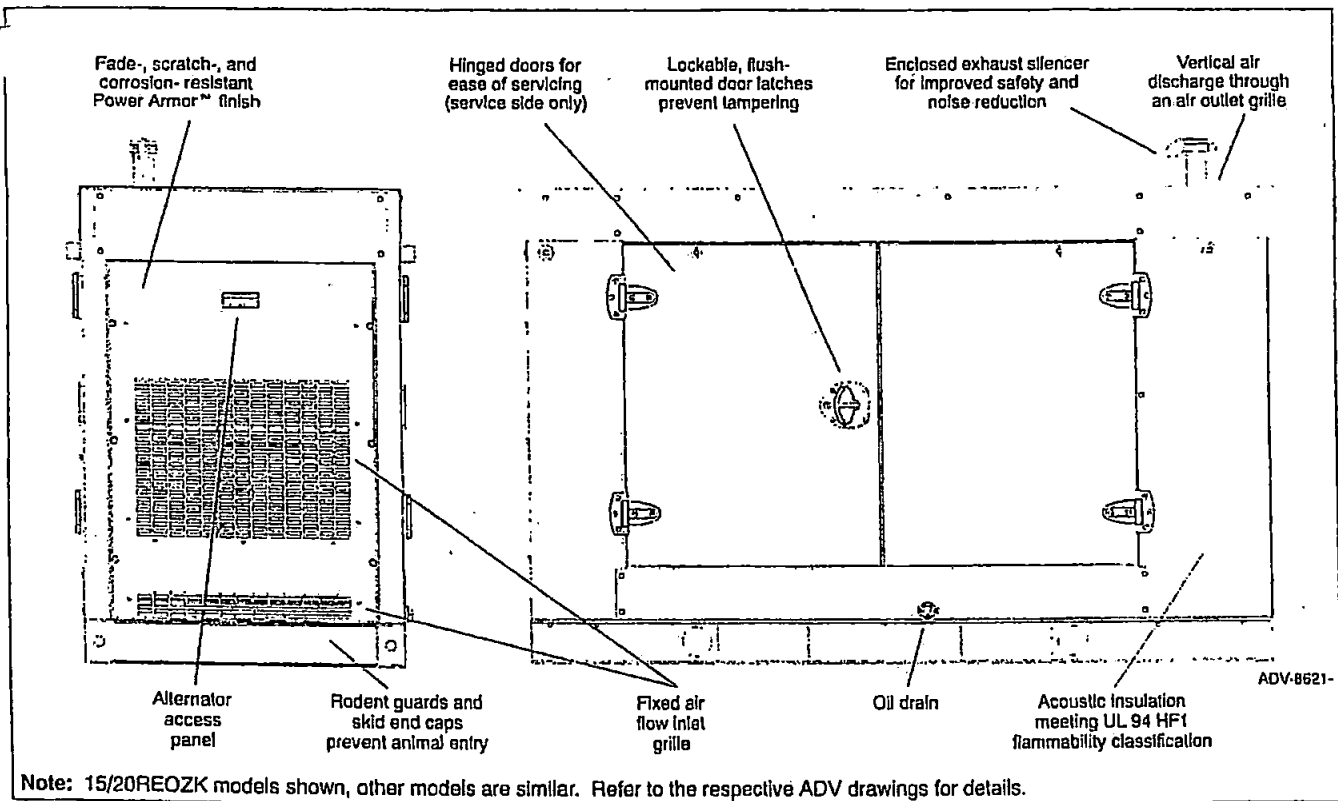
Enclosure with State Code Subbase Fuel Tank

Available Approvals and Listings

- UL 2200 Listing
- CSA Certified
- IBC Seismic Certification
- cUL Listing (fuel tanks only)

NOTE: Some models may have limited third-party approvals; see your local distributor for details.

Weather and Sound Enclosure



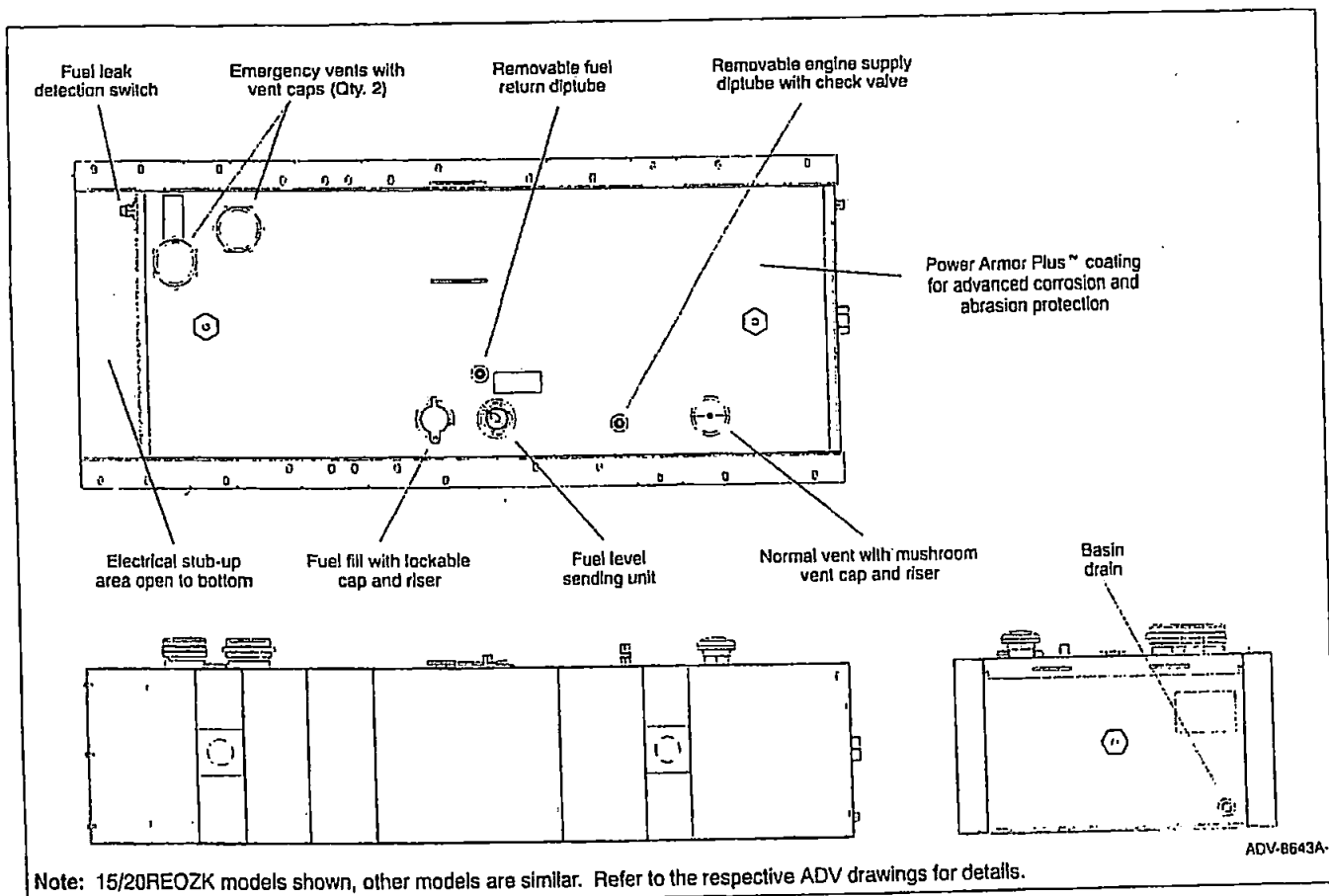
Enclosure Features

- Available in steel (18 gauge) formed panel, solid construction. Preassembled package offering corrosion resistant, dent resilient structure mounting directly to lift base or fuel tank.
 - Power Armor™ automotive-grade finish resulting in advanced corrosion and abrasion protection as well as enhanced edge coverage and color retention.
 - Internal exhaust silencer offering maximum component life and operator safety.
 - Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
 - Cooling/combustion air intake with a horizontal air inlet. Sized for maximum cooling airflow.
 - Service access. Multi-personnel doors/panels for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
 - Cooling air discharge. Weather protective design featuring a vertical air discharge outlet grille. Redirects cooling air up and above enclosure to reduce ambient noise.
- NOTE:** Installing an additional length of exhaust tail pipe may increase backpressure levels. Please refer to the generator set spec sheet for the maximum backpressure value.

Additional Sound Enclosure Features

- Available in steel (18 gauge) or aluminum 2 mm (0.08 in.) formed panel, solid construction.
- Attenuated design. Acoustic insulation UL 94 HF1 listed for flame resistance offering up to 51 mm (2 in.) mechanically restrained acoustic insulation.
- Cooling air discharge. The sound enclosures include acoustic insulation with urethane film.

Subbase Fuel Tank



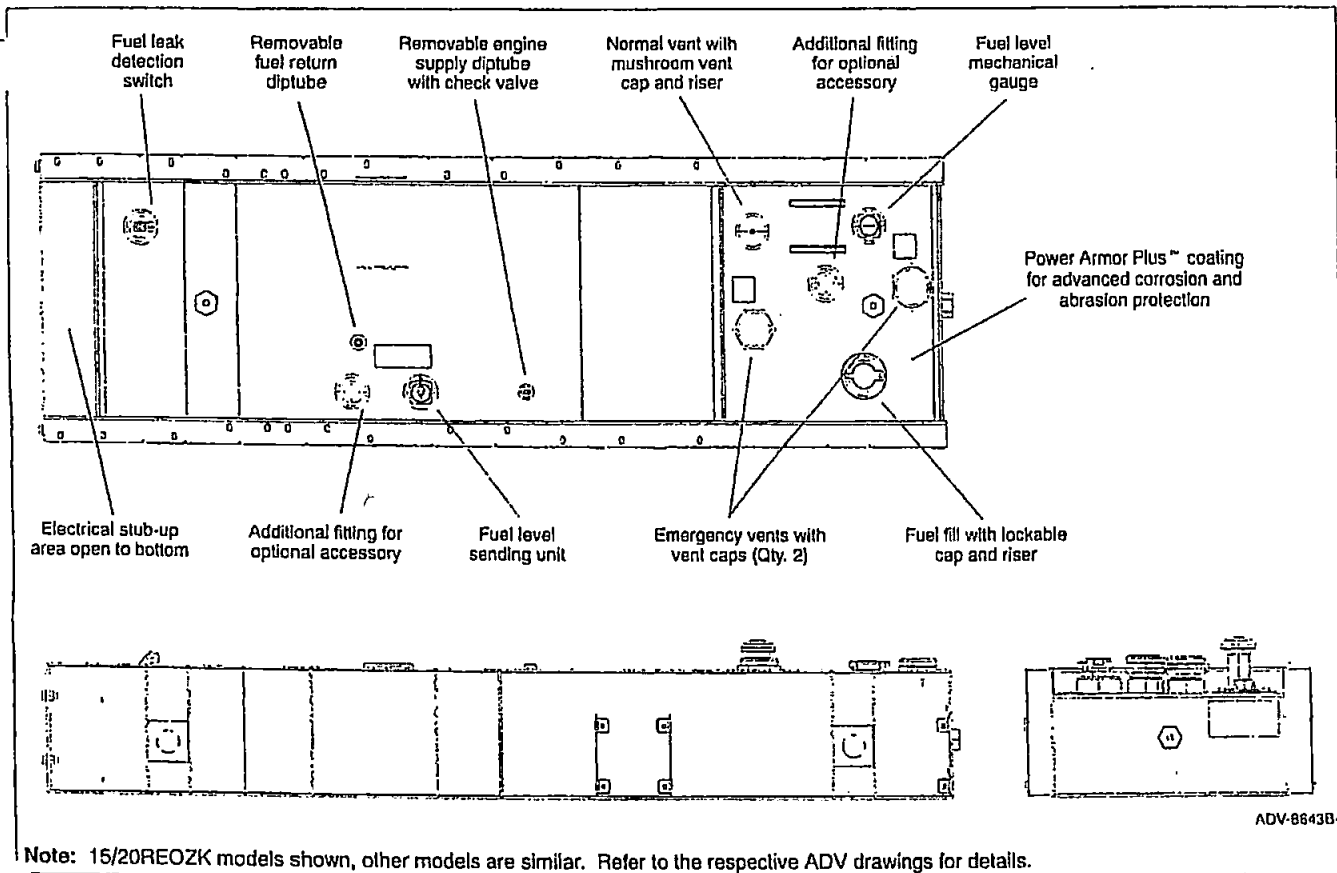
Standard Subbase Fuel Tank Features

- Extended operation. Usable tank capacity offers full load standby operation of up to 72 hours.
- Power Armor Plus™ textured epoxy-based rubberized coating that creates an ultra-thick barrier between the tank and harsh environmental conditions like humidity, saltwater, and extreme temperatures, and provides advanced corrosion and abrasion protection.
- 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. Vents ensure adequate venting of the inner and outer tank under extreme pressure and/or emergency conditions.
- Normal vent with cap and riser.
- Leak detection switch. Annunciates a contained primary tank fuel leak condition at the generator set control.
- Electrical stub-up.

State Code Subbase Fuel Tank Features

- State tank designed to comply with the installation standards of the Florida Dept. of Environmental Protection (FDEP) File No. EQ-634.
- Includes all of the Standard Subbase Fuel Tank Features.
- Usable tank capacity offers full load standby operation of up to 96 hours.

State Code Subbase Fuel Tank



State Code Subbase Fuel Tank Options

Bottom Clearance

- I-beams, provides 102 mm (4 in.) of ground clearance

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
- 28.4 L (7.5 gallon) spill containment, Florida Dept. of Environmental Protection (FDEP) File No. EQ-345 approved
- 28.4 L (7.5 gallon) spill containment with 95% shutoff, Florida Dept. of Environmental Protection (FDEP) File No. EQ-345/ EQ-257 approved

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

Fluid Containment Options

- 100% engine fluid containment

Fuel Supply Options

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

Weather Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		
15REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	585 (1290)	not available	0 (0)	77
301 (80)	48/53			1649 (64.9)	793 (1749)		432 (17)	
465 (123)	72/82			1852 (72.9)	851 (1876)		635 (25)	
15REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	48/58	2575 (101.4)	882 (34.7)	1573 (61.9)	932 (2055)	not available	356 (14)	77
476 (126)	72/84			1700 (66.9)	996 (2196)		483 (19)	
638 (168)	96/112			1827 (71.9)	1064 (2345)		610 (24)	
20REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	621 (1370)	not available	0 (0)	79
301 (80)	24/38			1649 (64.9)	829 (1829)		432 (17)	
465 (123)	48/58			1852 (72.9)	887 (1956)		635 (25)	
622 (164)	72/78			2030 (79.9)	936 (2065)		813 (32)	
20REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/41	2575 (101.4)	882 (34.7)	1573 (61.9)	968 (2135)	not available	356 (14)	79
476 (126)	48/60			1700 (66.9)	1032 (2276)		483 (19)	
638 (168)	72/80			1827 (71.9)	1100 (2425)		610 (24)	
838 (221)	96/105			1979 (77.9)	1181 (2605)		762 (30)	
30REOZK								
No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	680 (1500)	not available	0 (0)	79
301 (80)	24/30			1759 (69.3)	888 (1959)		432 (17)	
622 (164)	48/63			2140 (84.3)	995 (2195)		813 (32)	
791 (209)	72/80			2241 (88.3)	1042 (2298)		914 (36)	
30REOZK with IBC Seismic Certification and State Code Fuel Tank †								
330 (87)	24/33	2575 (101.4)	882 (34.7)	1573 (61.9)	1027 (2265)	not available	356 (14)	79
638 (168)	48/64			1827 (71.9)	1159 (2555)		610 (24)	
838 (221)	72/85			1979 (77.9)	1240 (2735)		762 (30)	
1056 (279)	96/107			2241 (88.3)	1323 (2919)		914 (36)	
40REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1048 (2310)	not available	0 (0)	79
505 (133)	24/36			1838 (72.4)	1328 (2928)		483 (19)	
868 (229)	48/62			2142 (84.4)	1427 (3146)		787 (31)	
1043 (275)	72/74			2244 (88.4)	1464 (3228)		889 (35)	
40REOZK with IBC Seismic Certification and State Code Fuel Tank †								
541 (142)	24/38	2896 (114.0)	1070 (42.1)	1787 (70.4)	1514 (3337)	not available	432 (17)	79
898 (237)	48/64			2015 (79.4)	1647 (3631)		660 (26)	
1057 (279)	72/75			2117 (83.4)	1706 (3762)		762 (30)	
1520 (401)	96/108			2269 (89.4)	1825 (4024)		914 (36)	
50REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1063 (2344)	not available	0 (0)	79
505 (133)	24/29			1838 (72.4)	1343 (2962)		483 (19)	
868 (229)	48/50			2142 (84.4)	1442 (3180)		787 (31)	
1527 (403)	72/88			2269 (89.4)	1585 (3496)		914 (36)	
50REOZK with IBC Seismic Certification and State Code Fuel Tank †								
541 (142)	24/31	2896 (114.0)	1070 (42.1)	1787 (70.4)	1529 (3371)	not available	432 (17)	79
898 (237)	48/52			2015 (79.4)	1662 (3665)		660 (26)	
1520 (401)	72/87			2269 (89.4)	1840 (4058)		914 (36)	
2028 (535)	96/116			4020 (158.3)	2041 (4500)			

Weather Enclosure and Subbase Fuel Tank Specifications (continued)

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		
60REOZK								
No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1102 (2430)	not available	0 (0)	80
505 (133)	24/25			1838 (72.4)	1382 (3048)		483 (19)	
1043 (275)	48/51			2244 (88.4)	1518 (3348)		889 (35)	
1527 (403)	72/75			2896 (114.0)	1624 (3582)		914 (36)	

60REOZK with IBC Seismic Certification and State Code Fuel Tank †

541 (142)	24/26	2896 (114.0)	1070 (42.1)	1787 (70.4)	1568 (3457)	not available	432 (17)	80
1057 (279)	48/52			2117 (83.4)	1733 (3882)		762 (30)	
1520 (401)	72/74			2269 (89.4)	1852 (4144)		914 (36)	
2028 (535)	96/99			4020 (158.3)	2053 (4586)			

Note: Data in table is for reference only, refer to the respective ADV drawings for details.

* Max. weight includes the generator set (wet) using the largest alternator option, enclosure with acoustic insulation added, silencer, and tank (no fuel).

† State code fuel tank specifications (height and weight) do not include I-beam option.

‡ Width dimension shown includes rubber door stops.

§ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

Sound Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		

15REOZK

No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	594 (1310)	530 (1168)	0 (0)	64
301 (80)	48/53			1649 (64.9)	802 (1769)	738 (1627)	432 (17)	
465 (123)	72/82			1852 (72.9)	860 (1896)	796 (1754)	635 (25)	

15REOZK with IBC Seismic Certification and State Code Fuel Tank †

330 (87)	48/58	2575 (101.4)	882 (34.7)	1573 (61.9)	941 (2075)	877 (1933)	356 (14)	64
476 (126)	72/84			1700 (66.9)	1005 (2216)	941 (2074)	483 (19)	
638 (168)	96/112			1827 (71.9)	1073 (2365)	1009 (2223)	610 (24)	

20REOZK

No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	630 (1390)	566 (1248)	0 (0)	65
301 (80)	24/38			1649 (64.9)	838 (1849)	774 (1707)	432 (17)	
465 (123)	48/58			1852 (72.9)	896 (1976)	832 (1834)	635 (25)	
622 (164)	72/78			2030 (77.9)	945 (2085)	881 (1943)	813 (32)	

20REOZK with IBC Seismic Certification and State Code Fuel Tank †

330 (87)	24/41	2575 (101.4)	882 (34.7)	1573 (61.9)	977 (2155)	913 (2013)	356 (14)	65
476 (126)	48/60			1700 (66.9)	1041 (2296)	977 (2154)	483 (19)	
638 (168)	72/80			1827 (71.9)	1109 (2445)	1045 (2303)	610 (24)	
838 (221)	96/105			1979 (77.9)	1190 (2625)	1126 (2483)	762 (30)	

30REOZK

No Tank	0	1969 (77.5)	882 (34.7)	1327 (52.3)	689 (1520)	624 (1378)	0 (0)	65
301 (80)	24/30			1759 (69.3)	897 (1979)	832 (1837)	432 (17)	
622 (164)	48/63			2140 (84.3)	1004 (2215)	939 (2073)	813 (32)	
791 (209)	72/80			2241 (88.3)	1051 (2318)	986 (2176)	914 (36)	

30REOZK with IBC Seismic Certification and State Code Fuel Tank †

330 (87)	24/33	2575 (101.4)	882 (34.7)	1573 (61.9)	1036 (2285)	971 (2143)	356 (14)	65
638 (168)	48/64			1827 (71.9)	1168 (2575)	1103 (2433)	610 (24)	
838 (221)	72/85			1979 (77.9)	1249 (2755)	1184 (2613)	762 (30)	
1056 (279)	96/107			2241 (88.3)	1332 (2939)	1267 (2797)	914 (36)	

40REOZK

No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1059 (2335)	957 (2110)	0 (0)	64
505 (133)	24/36			1838 (72.4)	1339 (2953)	1237 (2728)	483 (19)	
868 (229)	48/62			2142 (84.4)	1438 (3171)	1336 (2946)	787 (31)	
1043 (275)	72/74			2244 (89.4)	1475 (3253)	1373 (3028)	889 (35)	

Sound Enclosure and Subbase Fuel Tank Specifications (continued)

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) §
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width ‡	Height	With Steel Enclosure	With Aluminum Enclosure		

40REOZK with IBC Seismic Certification and State Code Fuel Tank †

541 (142)	24/38	2896 (114.0)	1070 (42.1)	1787 (70.4)	1525 (3362)	1423 (3137)	432 (17)	64
898 (237)	48/64			2015 (79.4)	1658 (3656)	1556 (3431)	660 (26)	
1057 (279)	72/75			2137 (83.4)	1717 (3787)	1615 (3562)	782 (30)	
1520 (401)	96/108			2269 (89.4)	1836 (4049)	1734 (3824)	914 (36)	

50REOZK

No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1074 (2369)	972 (2144)	0 (0)	64
505 (133)	24/29			1838 (72.4)	1354 (2987)	1252 (2762)	483 (19)	
868 (229)	48/50			2142 (84.4)	1453 (3205)	1351 (2980)	787 (31)	
1527 (403)	72/88	2896 (114.0)		2269 (89.4)	1596 (3521)	1494 (3296)	914 (36)	

50REOZK with IBC Seismic Certification and State Code Fuel Tank †

541 (142)	24/31	2896 (114.0)	1070 (42.1)	1787 (70.4)	1540 (3396)	1438 (3171)	432 (17)	64
898 (237)	48/52			2015 (79.4)	1673 (3690)	1571 (3465)	660 (26)	
1520 (401)	72/87			2269 (89.4)	1851 (4083)	1749 (3858)	914 (36)	
2028 (535)	96/116	4020 (158.3)			2052 (4525)	1950 (4300)		

60REOZK

No Tank	0	2320 (91.3)	1070 (42.1)	1465 (57.7)	1113 (2455)	1011 (2230)	0 (0)	65
505 (133)	24/25			1838 (72.4)	1393 (3073)	1291 (2848)	483 (19)	
1043 (275)	48/51			2244 (88.4)	1529 (3373)	1427 (3148)	889 (35)	
1527 (403)	72/75	2896 (114.0)		2269 (89.4)	1635 (3607)	1533 (3382)	914 (36)	

60REOZK with IBC Seismic Certification and State Code Fuel Tank †

541 (142)	24/26	2896 (114.0)	1070 (42.1)	1787 (70.4)	1579 (3482)	1453 (3205)	432 (17)	65
1057 (279)	48/52			2117 (83.4)	1771 (3907)	1669 (3682)	762 (30)	
1520 (401)	72/74			2269 (89.4)	1890 (4169)	1788 (3944)	914 (36)	
2028 (535)	96/99	4020 (158.3)			2091 (4611)	1989 (4386)		

Note: Data in table is for reference only, refer to the respective ADV drawings for details.

* Max. weight includes the generator set (wet) using the largest alternator option, enclosure with acoustic insulation added, silencer, and tank (no fuel).

† State code fuel tank specifications (height and weight) do not include I-beam option.

‡ Width dimension shown includes rubber door stops.

§ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

Subbase Fuel Tank Specifications (No Enclosure)

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Subbase Fuel Tank *			
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.)
		Length	Width	Height	

15REOZK

301 (80)	48/53	1935 (76.2)	810 (31.9)	432 (17)	208 (459)
465 (123)	72/82			635 (25)	266 (586)

15REOZK with IBC Seismic Certification and State Code Fuel Tank †

330 (87)	48/58	2575 (101.4)	810 (31.9)	356 (14)	347 (765)
476 (126)	72/84			483 (19)	411 (906)
638 (168)	96/112			610 (24)	479 (1055)

20REOZK

301 (80)	24/38	1935 (76.2)	810 (31.9)	432 (17)	208 (459)
465 (123)	48/58			635 (25)	266 (586)
622 (164)	72/78			813 (32)	315 (695)

20REOZK with IBC Seismic Certification and State Code Fuel Tank †

330 (87)	24/41	2575 (101.4)	810 (31.9)	356 (14)	347 (765)
476 (126)	48/60			483 (19)	411 (906)
638 (168)	72/80			610 (24)	479 (1055)
838 (221)	96/105			762 (30)	560 (1235)



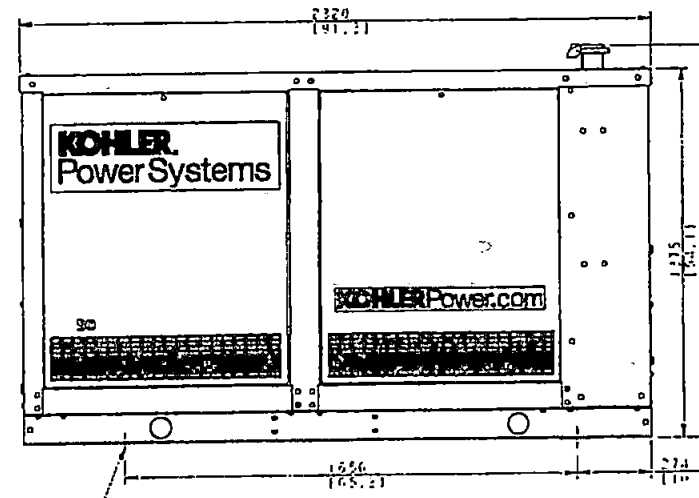
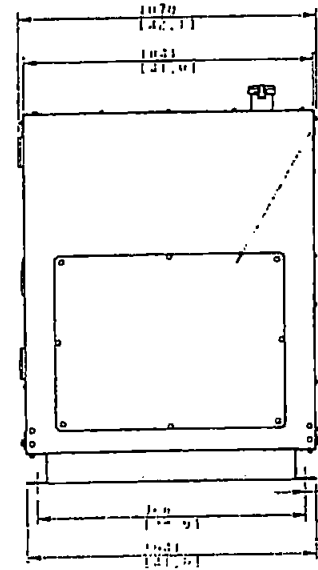
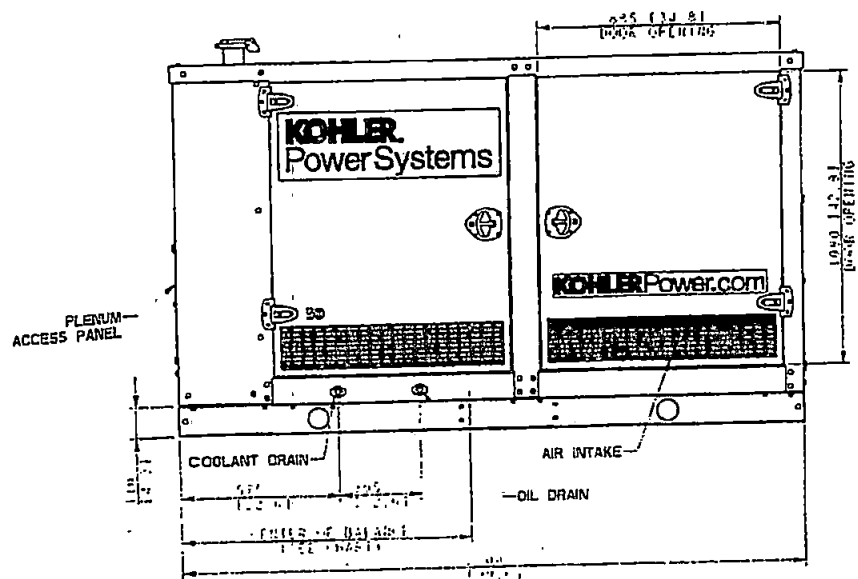
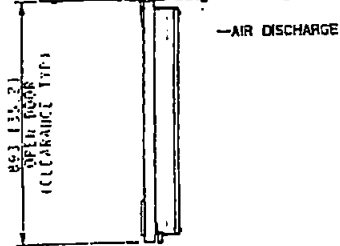
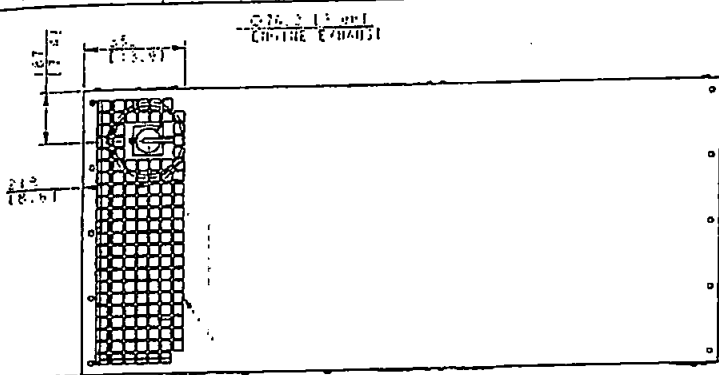
KOHLER CO., Kohler, Wisconsin 53044 USA
 Phone 920-457-4441, Fax 920-459-1646
 For the nearest sales and service outlet in the
 US and Canada, phone 1-800-544-2444
 KOHLERPower.com

Subbase Fuel Tank Specifications (No Enclosure) (continued)

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load, Nominal/Actual	Subbase Fuel Tank *			
		Max. Dimensions, mm (in.)			Max. Weight, kg (lb.)
		Length	Width	Height	
30REOZK					
301 (80)	24/30	1935 (76.2)	810 (31.9)	432 (17)	208 (459)
622 (164)	48/63			813 (32)	315 (695)
791 (209)	72/80			914 (36)	362 (798)
30REOZK with IBC Seismic Certification and State Code Fuel Tank †					
330 (87)	24/33	2575 (101.4)	810 (31.9)	356 (14)	347 (765)
638 (168)	48/64			610 (24)	479 (1055)
838 (221)	72/85			762 (30)	560 (1235)
1056 (279)	96/107			914 (36)	643 (1419)
40REOZK					
505 (133)	24/36	2300 (90.6)	1040 (40.9)	483 (19)	280 (618)
868 (229)	48/62			787 (31)	379 (836)
1043 (275)	72/74			889 (35)	416 (918)
40REOZK with IBC Seismic Certification and State Code Fuel Tank †					
541 (142)	24/38	2896 (114.0)	1040 (40.9)	432 (17)	466 (1027)
898 (237)	48/64			660 (26)	599 (1321)
1057 (279)	72/75			762 (30)	658 (1452)
1520 (401)	96/108			914 (36)	777 (1714)
50REOZK					
505 (133)	24/29	2300 (90.6)	1040 (40.9)	483 (19)	280 (618)
868 (229)	48/50			787 (31)	379 (836)
1527 (403)	72/88			914 (36)	522 (1152)
50REOZK with IBC Seismic Certification and State Code Fuel Tank †					
541 (142)	24/31	2896 (114.0)	1040 (40.9)	432 (17)	466 (1027)
898 (237)	48/52			660 (26)	599 (1321)
1520 (401)	72/87			914 (36)	777 (1714)
2028 (535)	96/116			4020 (158.0)	978 (2156)
60REOZK					
505 (133)	24/25	2300 (90.6)	1040 (40.9)	483 (19)	280 (618)
1043 (275)	48/51			889 (35)	416 (918)
1527 (403)	72/75			914 (36)	522 (1152)
60REOZK with IBC Seismic Certification and State Code Fuel Tank †					
541 (142)	24/26	2896 (114.0)	1040 (40.9)	432 (17)	466 (1027)
1057 (279)	48/52			762 (30)	658 (1452)
1520 (401)	72/74			914 (36)	777 (1714)
2028 (535)	96/99			4020 (158)	978 (2156)

Note: Data in table is for reference only, refer to the respective ADV drawings for details.
 * Max. weight includes the tank (no fuel). Height does not include connections/fittings above the tank.
 † State code fuel tank specifications (height and weight) do not include I-beam option.

DISTRIBUTED BY:



MODEL	DESCRIPTION	ENCLOSURE WEIGHT KG (LBS)	ENCLOSURE CENTER OF GRAVITY
4P5X	STEEL WEATHER, 40-60KW	261 (575)	50.3
	STEEL SOUND, 40-60KW	272 (600)	50.3
4P7BX	ALUMINUM SOUND, 40-60KW	170 (375)	51.0
	STEEL WEATHER, 40-60KW	261 (575)	51.1
4P8X	STEEL WEATHER, 40-60KW	261 (575)	51.1
	ALUMINUM SOUND, 40-60KW	170 (375)	51.8
4P9X	STEEL WEATHER, 40-60KW	261 (575)	51.5
	STEEL SOUND, 40-60KW	272 (600)	51.4
4P10X	STEEL WEATHER, 40-60KW	261 (575)	52.2
	STEEL SOUND, 40-60KW	272 (600)	52.1
4P10X	STEEL WEATHER, 40-60KW	261 (575)	52.1
	ALUMINUM SOUND, 40-60KW	170 (375)	52.0

1. IF THE UNIT IS TO BE USED IN A LOCATION WHERE THE AMBIENT TEMPERATURE IS ABOVE 40°C (104°F), THE UNIT MUST BE PROVIDED WITH AN EXHAUST SYSTEM TO REMOVE THE HEAT GENERATED BY THE UNIT.

60HZ 4P5X, 405X,
4P7BX, 407BX, 4P8X,
408X, 4P10X, 4010X,
RECCN, 600V ALTERNATORS
40,50,60 KW KOHLER DIESEL

1. DIMENSIONS IN () ARE ENGLISH EQUIVALENTS

REV	DATE	BY	DESCRIPTION
1	10/15/04
2	10/15/04

KOHLER CO. METRIC

1. DIMENSION PRINT, ENCL. 40-60

ADV-8740

MODEL	COB OPEN	GENSET WEIGHT (KG [LBS])
40 4P/05X	52.6"	750 (1654)
40/50 4P/078X	53.6"	787 (1735)
50/60 4P/08Y	54"	802 (1769)
60 4P/010X	55"	841 (1855)

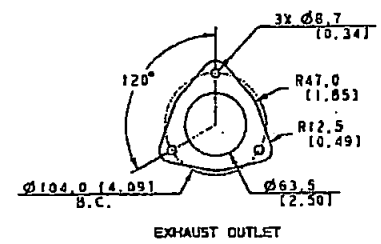
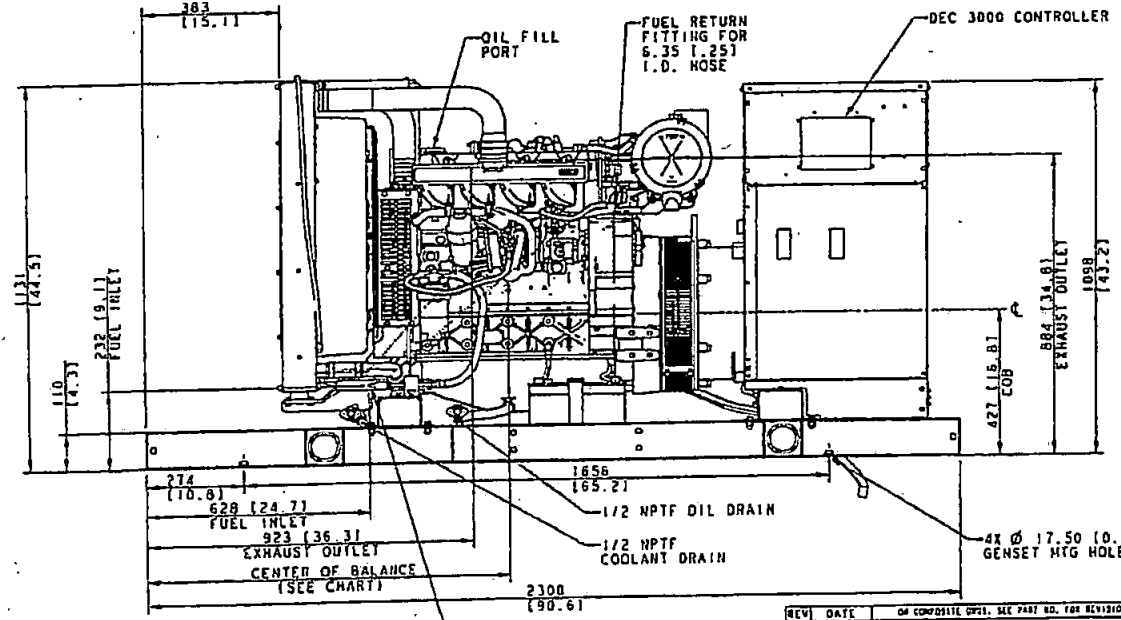
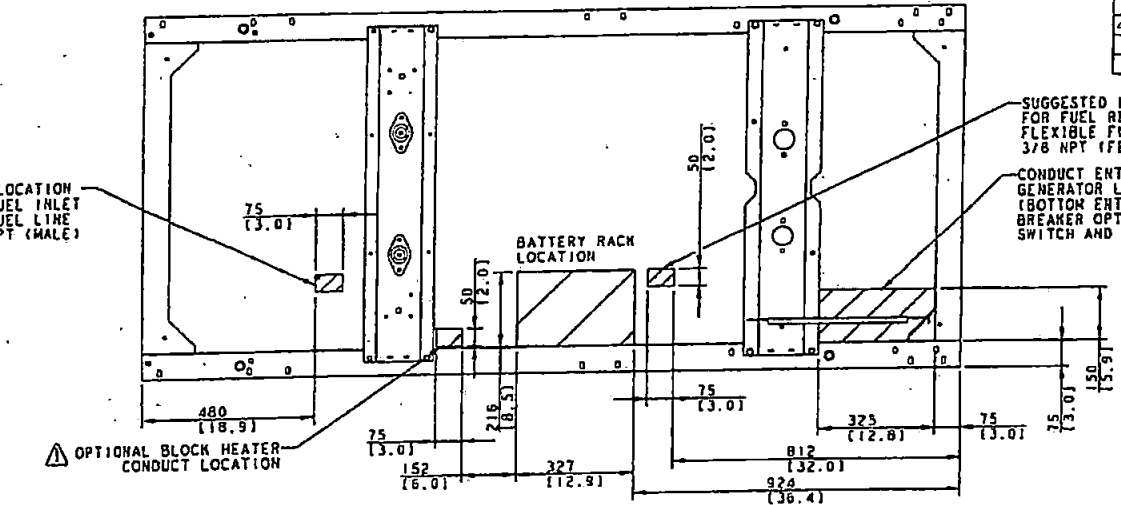
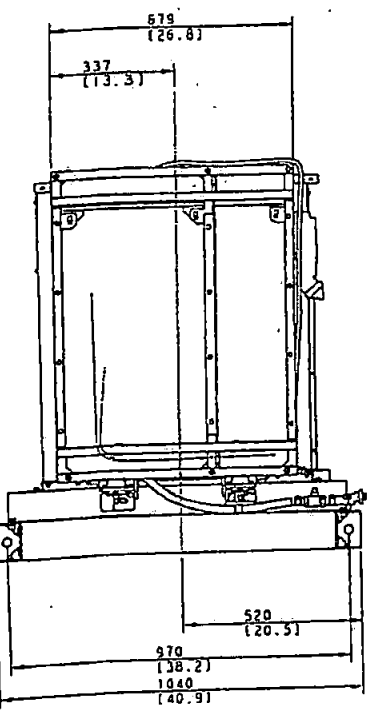
SUGGESTED LOCATION FOR FUEL INLET FLEXIBLE FUEL LINE 3/8 NPT (MALE)

SUGGESTED LOCATION FOR FUEL RETURN FLEXIBLE FUEL LINE 3/8 NPT (FEMALE)

CONDUIT ENTRY AREA FOR GENERATOR LOAD LEADS (BOTTOM ENTRY) CIRCUIT BREAKER OPTION, REMOTE SWITCH AND REMOTE ANNUNCIATOR

OPTIONAL BLOCK HEATER CONDUIT LOCATION

BATTERY RACK LOCATION



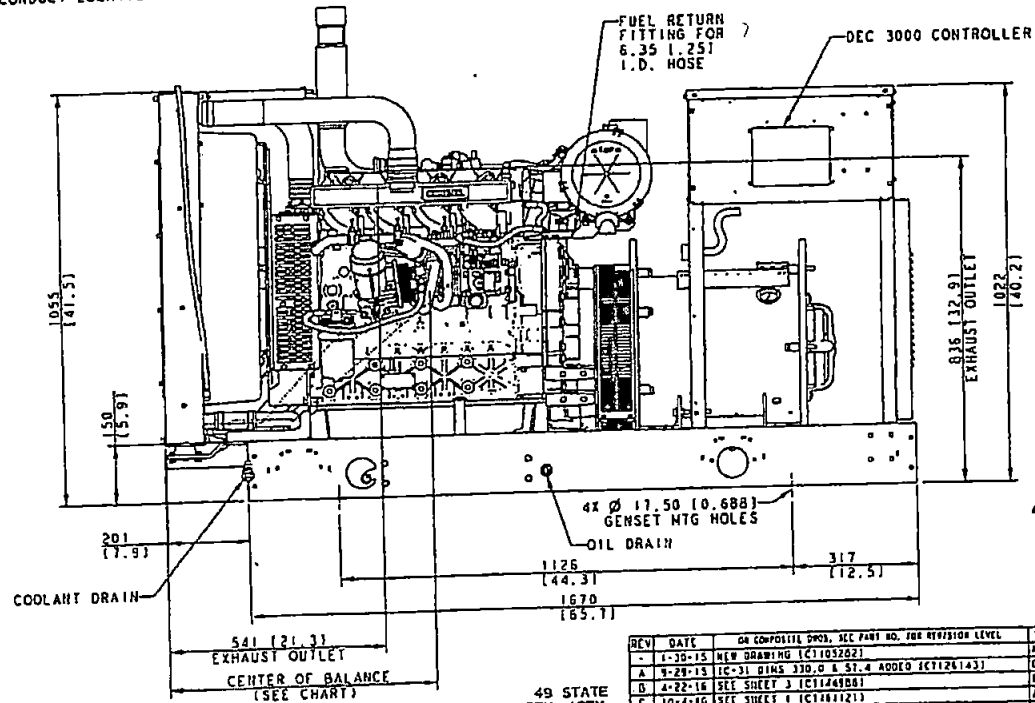
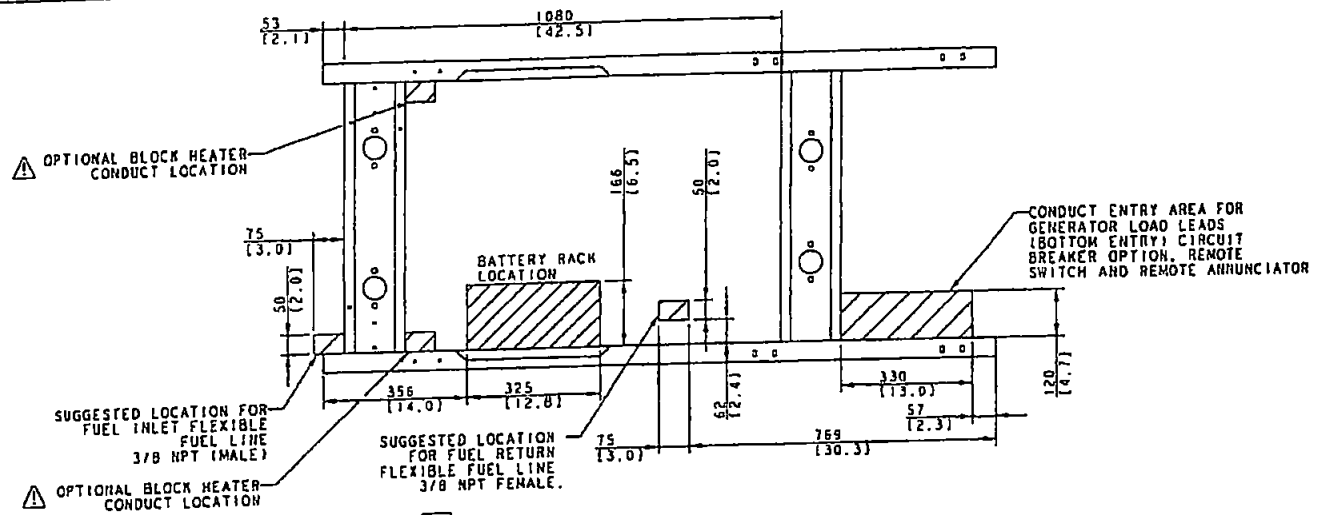
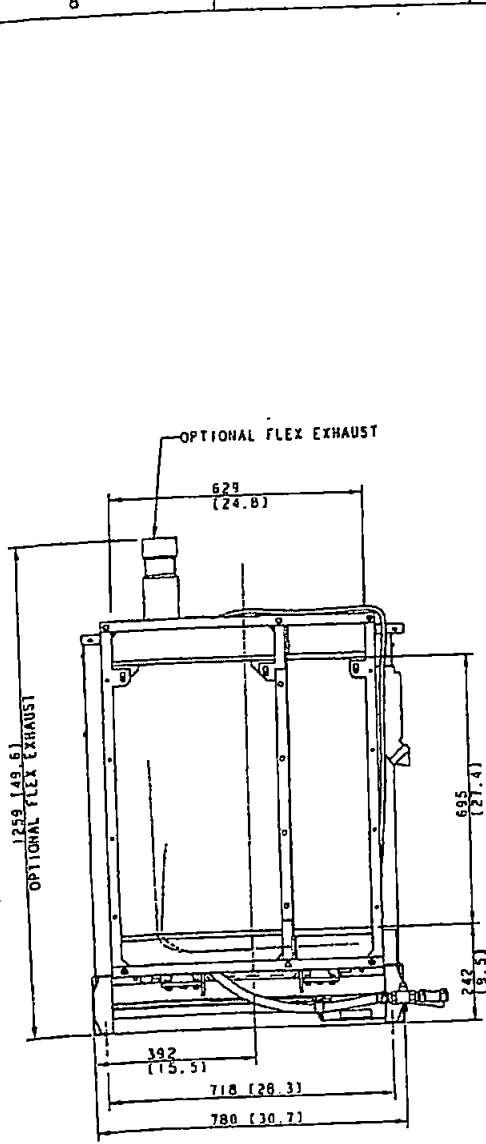
INSTALLATION NOTE:
IF A SUBBASE FUEL TANK AND/OR ENCLOSURE IS USED, REFER TO SUBBASE FUEL TANK ADV TO DETERMINE MOUNTING LOCATIONS.

- NOTES:
- WHEN SUBBASE TANK IS USED, CONDUIT MUST BE LOCATED OUTSIDE OF TANK AREA OR IN STUB-UP AREA FOR SUBBASE TANK. REFER TO SUBBASE ADV.
 - DIMENSIONS IN IT ARE ENGLISH EQUIVALENT
 - IF AN ENCLOSURE IS USED, THE FUEL LINE BE STUBBED UP FROM DIRECTLY UNDER THE UNIT OR BROUGHT IN FROM THE END OF THE SKID. REFER TO ENCLOSURE ADV.

49 STATE
60HZ 4PSX, 40SX,
4P78X, 4078X, 4P8X,
408X, 4P10X, 4010X,
RECON. 600V ALTERNATORS
40,50,60KW KOHLER DIESEL

REV	DATE	OF CONDITIONAL OPTS. SEE PART NO. FOR REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED - IN ACCORDANCE WITH THE FOLLOWING:	APPROVALS	DATE
-	1-20-15	NEW DRAWING (CT1103202)	MMH			
A	9-29-15	SEE SHEET 2 (CT1281431)	CCR			
D	4-22-16	SEE SHEET 3 (CT1440881)	ADP			
E	10-4-16	1C-21 DIM. Ø104.3 (4.09) ADDED (CT1681711)	ADP			
F	12-22-16	SEE SHEET 2 (CT1485501)	CCR			
F	10-20-17	SHEET 1, 2 & 3 ADDED (CT1005161)	CCR			
F	2-2-18	SEE SHEETS 4 & 5 (CT1841261)	CCR			
G	1-23-18	10-31 COARK CENTER AXIS & DIM. 427 AS PER (CT1880701)	ADP			

KOHLER CO. (METRIC)
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DIMENSION PRINT 40-60 KW
ADV-8739



NOTES:

1. WHEN SUBBASE TANK IS USED, CONDUIT MUST BE LOCATED OUTSIDE OF TANK AREA OR IN STUB-UP AREA FOR SUBBASE TANK. REFER TO SUBBASE ADV.
2. DIMENSIONS IN () ARE ENGLISH EQUIVALENTS.
3. IF AN ENCLOSURE IS USED, THE FUEL LINE BE STUBBED UP FROM DIRECTLY UNDER THE UN OR BROUGHT IN FROM THE END OF THE SKID. REFER TO ENCLOSURE ADV.

49 STATE
60HZ 4PSX, 40SX,
4P7BX, 407BX, 4PBX,
40BX, 4PIOX, 4IOX,
RECON 600V ALTERNATORS
40,50,60KW KOHLER DIESEL

REV	DATE	OR COMPOSITE DWG, SEC PART NO, JOB REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED TO DIMENSIONS IN INCHES/FEET
-	1-30-15	NEW DRAWING (C1103282)	ADP	FOR DIMENSIONS SEE:
A	9-29-13	IC-31 DIMS 330.0 & 51.4 ADDED (C1124143)	CCK	SCALE PRINT: 1:1
B	4-22-18	SEC SHEET 3 (C114498)	BIT	DATE: 1-30-15
C	10-4-10	SEC SHEET 1 (C1181121)	ADP	DATE: 1-30-15
D	12-28-16	(A-B) DIM. 718 (20.3) ADDED (C1160590)	ADP	DATE: 1-30-15
E	10-20-17	SHEETS 4, 5 & 6 ADDED (C1180516)	CCK	DATE: 1-30-15
F	2-2-10	SEC SHEETS 4 & 5 (C1104126)	ADP	DATE: 1-30-15
G	1-23-10	SEC SHEET 1 (C1180101)	ADP	DATE: 1-30-15

KOHLER CO. METRIC

POWER SYSTEMS. MODEL: 49 STATE
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DIMENSION PRINT 40-60 1

SCALE: 0.16 [1/4"] = 1"

ADV-8739

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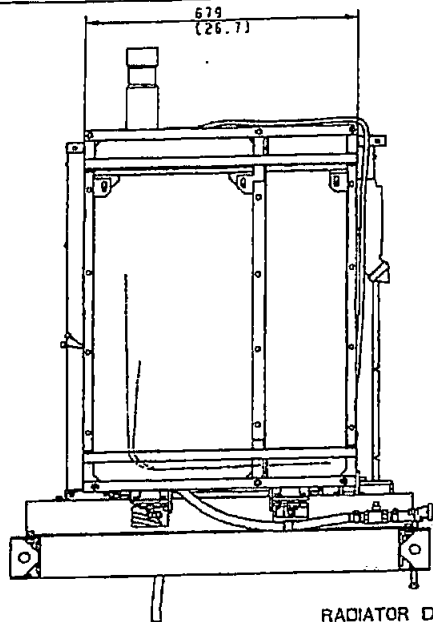
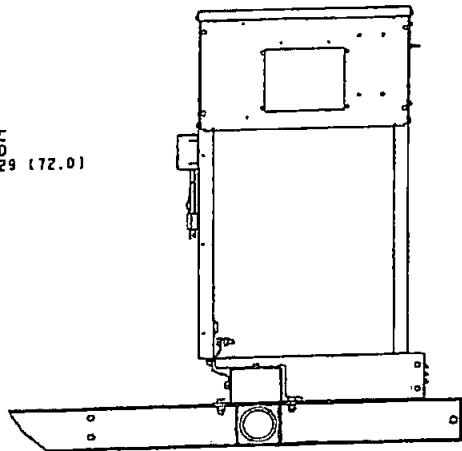
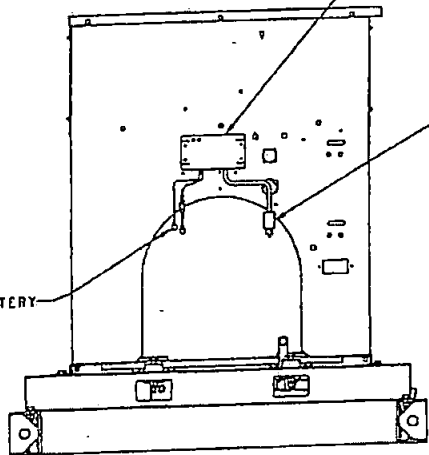
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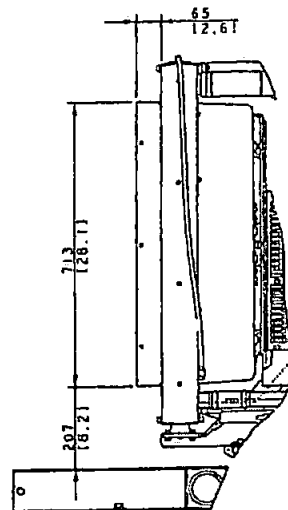
BATTERY CHARGER

90-135V AC
POWER CORD
LENGTH 1829 (72.0)

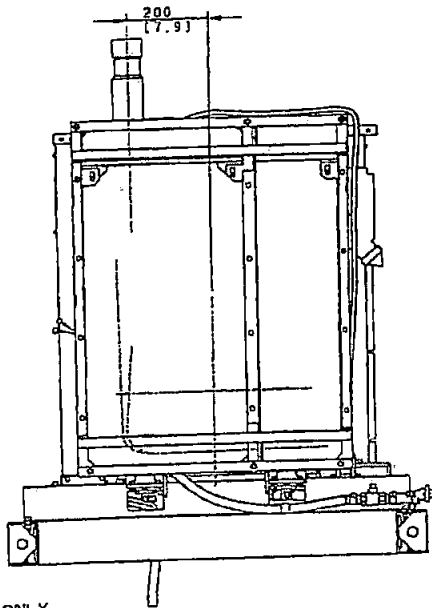
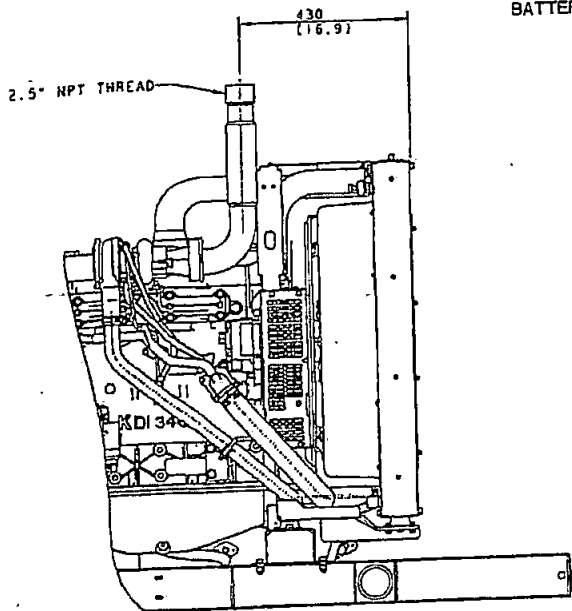
CONNECT TO BATTERY



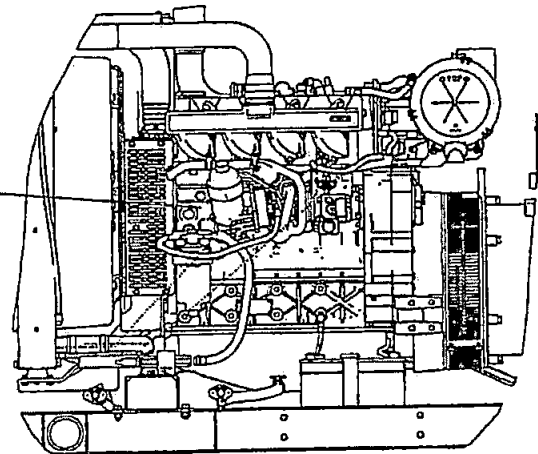
RADIATOR DUCT FLANGE



BATTERY CHARGER



BLOCK HEATER
120V AC
POWER CORD
LENGTH 72"



BLOCK HEATER (INTERNAL)

FLEXIBLE EXHAUST. 49 STATE ONLY
[SEE SHEET 6 FOR SCAQMD/CALIFORNIA]

REV	DATE	ON COMPOSITE DRGS. SEE PART NO. TOP REVISION LEVEL	BY	CHKD	APP'D	DATE
-	1-30-15	NEW DRAWING (C1105282)	CEB			
A	9-29-15	SEE SHEET 7 (C1128143)	CEB			
B	4-22-16	10-61 NPT THREAD; 2.5 INCH MAS 3 (C1144986)	DOT			
C	10-2-16	SEE SHEET 1 (C1151121)	ADP			
D	12-22-16	SEE SHEET 2 (C1160591)	CEB			
E	10-20-17	SHEETS A, 5, 3 & 4 ADDED (C1180516)	CEB			
F	7-2-18	SEE SHEETS 2 & 3 (C1184126)	ADP			
G	7-23-18	SEE SHEET 1 (C1180707)	ADP			

KOHLER CO. METRIC
 POWER SYSTEMS, KOHLER, WI 53044 U.S.A.
 THIS DRAWING IS DESIGN AND DETAIL IS PROPERTY AND MUST NOT BE USED WITHOUT PERMISSION FROM KOHLER CO. NO. ALL DESIGN OR INVENTION ARE RESERVED.
 DIMENSION PRINT 40-60 KI
 ADV-8739

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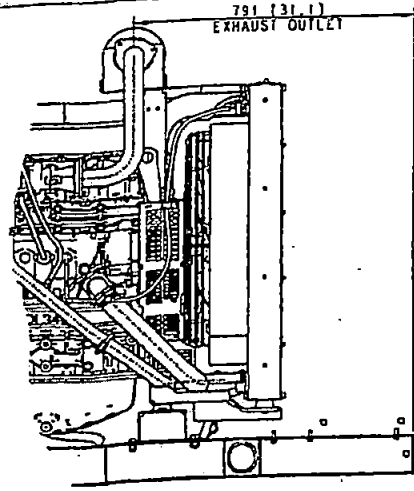
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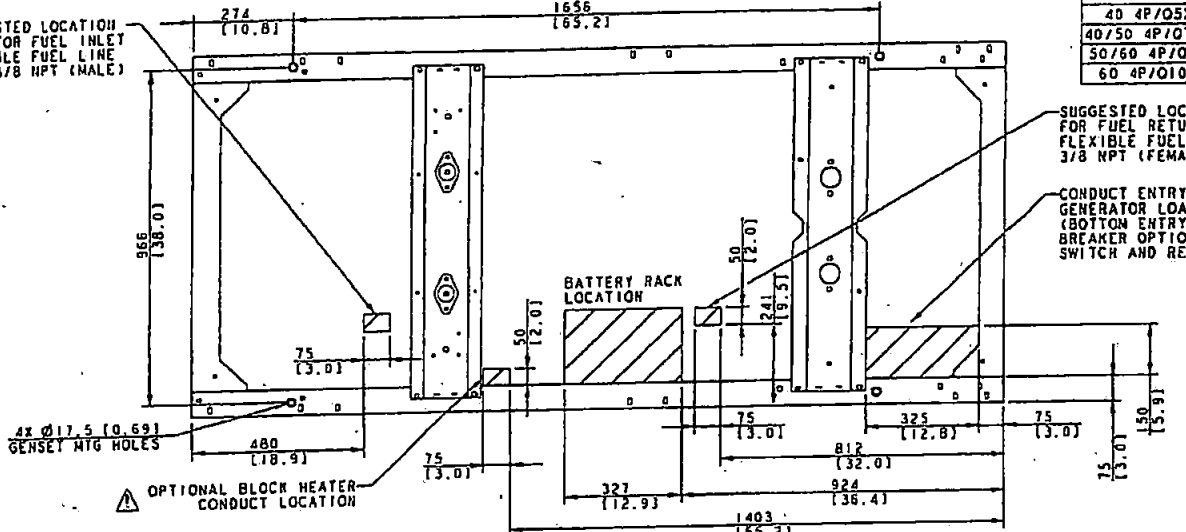
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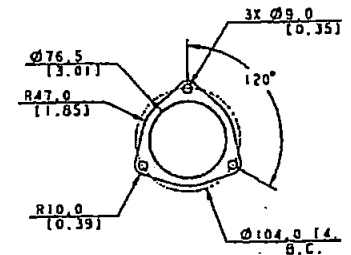
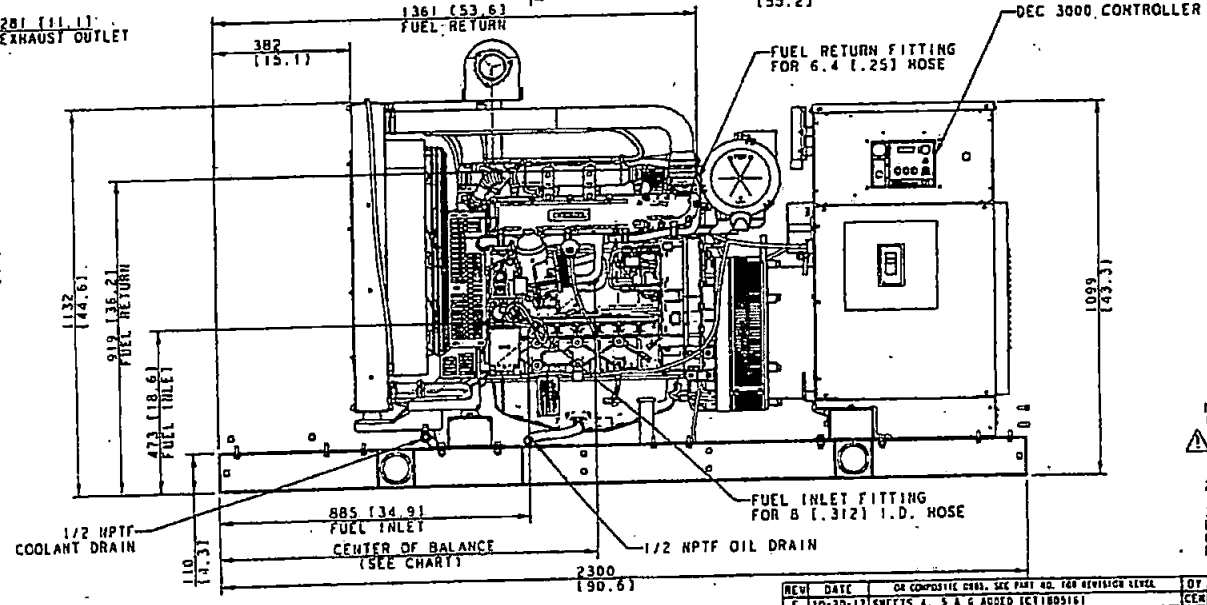
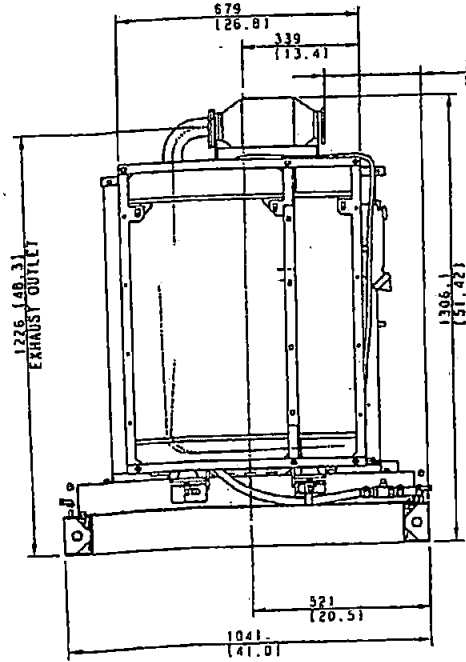
1



SUGGESTED LOCATION FOR FUEL INLET FLEXIBLE FUEL LINE 3/8 NPT (MALE)



MODEL	COS OPEN	GENSET WEIGHT (W) KG (LBS)
40 4P/05X	52.6"	750 (1654)
40/50 4P/Q78X	53.6"	787 (1735)
50/60 4P/Q8X	54"	802 (1769)
60 4P/Q10X	55"	841 (1855)



EXHAUST OUTLET

INSTALLATION NOTE
IF A SUBBASE FUEL TANK AND/OR ENCLOSURE IS USED, REFER TO SUBBASE FUEL TANK ADV TO DETERMINE MOUNTING LOCATIONS.

- NOTES:
- WHEN SUBBASE TANK IS USED, CONDUIT MUST BE LOCATED OUTSIDE OF TANK AREA OR IN STUB-UP AREA FOR SUBBASE TANK. REFER TO SUBBASE ADV.
 - DIMENSIONS IN (1) ARE ENGLISH EQUIVALENT
 - IF AN ENCLOSURE IS USED, THE FUEL LINE BE STUBBED UP FROM DIRECTLY UNDER THE UNIT OR BROUGHT IN FROM THE END OF THE SKID. REFER TO ENCLOSURE ADV.

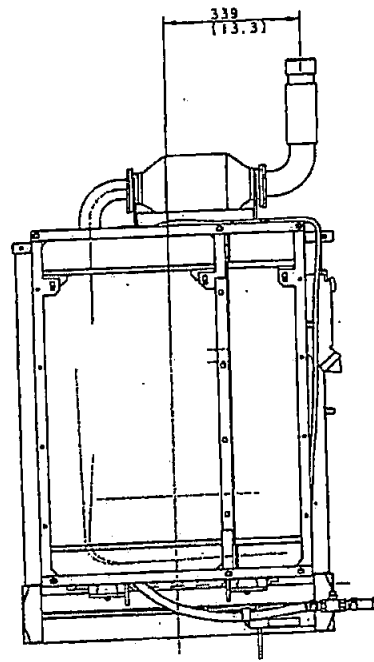
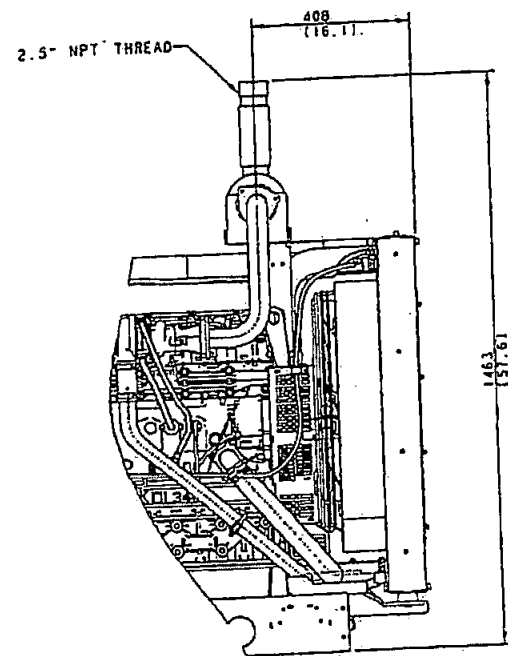
CALIFORNIA/SCAOMD
60HZ 4P5X, 405X,
4P78X, 4C78X, 4P8X,
4C8X, 4P10X, 4C10X,
RECON. 600V ALTERNATORS
40,50,60KW KOHLER DIESEL

REV	DATE	OR COMPOSITE CHG. SEE PART NO. FOR REVISION LEVEL	BY	DO NOT SCALE REFERENCE THE MODEL FOR ALL UNSPECIFIED DIMEN.
E	10-29-17	SHEETS C, S & G ADDED (CT180316)	CEK	CHILLER GENERATOR OPERATED BY GENERATOR SET, IN PREVIOUS EDITIONS
F	2-2-10	EXHAUST OUTLET LOCATION UPDATED (CT104126)	CEK	
G	3-23-10	SEE SHEET I (CT180313)	AOP	

APPROVED FOR SALE	DATE	BY	SCALE
	10-20-17	CEK	AS SHOWN
DATE	BY	SCALE	
10-28-17	CEK	AS SHOWN	
DATE	BY	SCALE	
10-28-17	CEK	AS SHOWN	

THIS DRAWING IS DESIGN AND OUTLINE AS A CONSTRUCTION DRAWING AND NOT BE USED FOR CONSTRUCTION WITH KOHLER CO. DIMS. ALL TYP OF DIMENSIONS OR INVENTION ARE RESERVED.

DIMENSION PRINT 40-60 KW
ADV-8739



FLEXIBLE EXHAUST - SCAOMD/CALIFORNIA

CALIFORNIA/SCAOMD
 60HZ 4P5X, 405X,
 4P78X, 4078X, 4P8X,
 408X, 4P10X, 4010X,
 RECON. 600V ALTERNATORS
 40,50,60KW KOHLER DIESEL

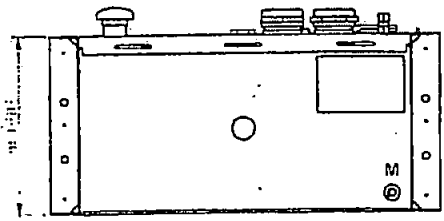
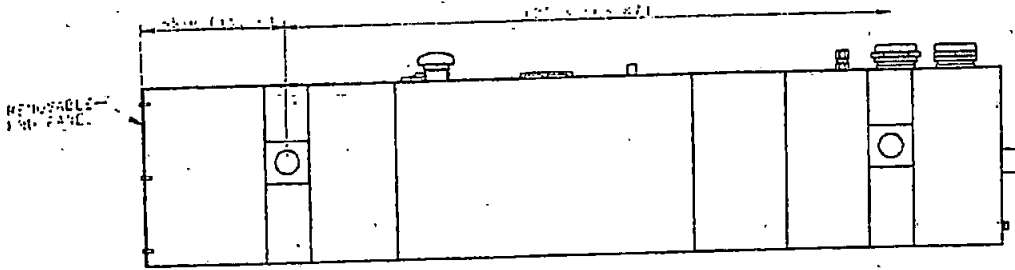
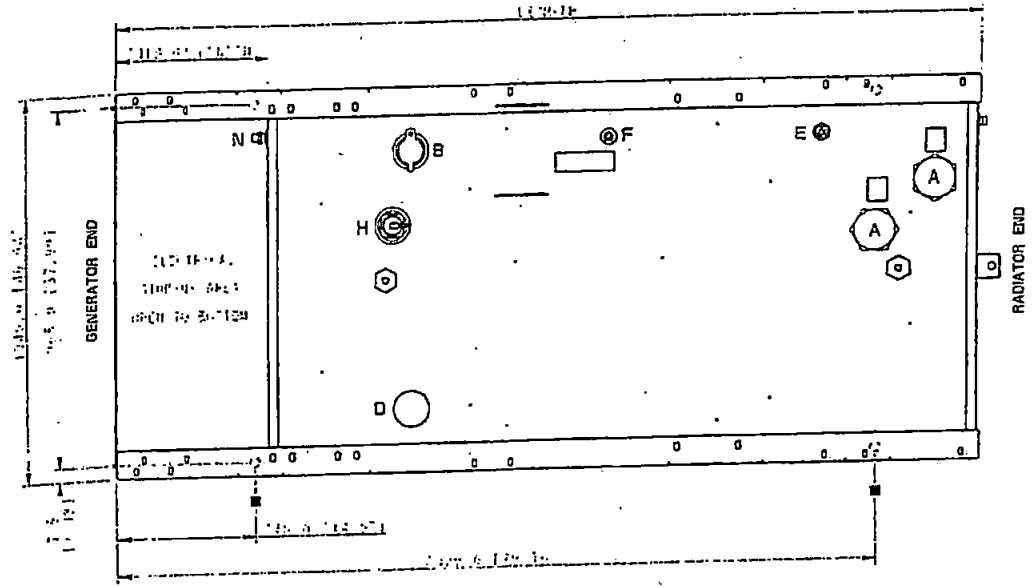
REV	DATE	BY	DESCRIPTION	BY	DATE
K	10-20-17	CCM	SHEETS 4, 5 & 6 ADDED (CT180315)	CCM	
F	2-2-18	ADP	SEE SHEETS 4 & 5 (CT180126)	ADP	
G	7-23-18	ADP	SEE SHEET 1 (CT180107)	ADP	

APPROVALS	DATE
DESIGNED BY	10-20-17
CHECKED BY	10-20-17
DATE	10-20-17

KOHLER CO METRIC	
POWER SYSTEMS, KOHLER, WI 53044	
THIS DRAWING IN DESIGN AND DETAIL IS PROPERTY AND MUST NOT BE USED WITHOUT PERMISSION FROM KOHLER CO. DESIGN OR INVENTION NOT RESERVED.	
DIMENSION PRINT 40-60 K	
ADV-B739	

MODEL	DIMENSIONS		WEIGHT		CAPACITY		VOLUME	
	IN.	MM.	LB.	KG.	GAL.	L.	CU. FT.	CU. M.
1000	100	2540	100	45.4	100	378	2.8	0.08
2000	200	5080	200	90.7	200	757	5.6	0.16
3000	300	7620	300	136.1	300	1136	8.4	0.24
4000	400	10160	400	181.4	400	1515	11.2	0.32
5000	500	12700	500	226.8	500	1894	14.0	0.40

- TANK FITTINGS:**
- A. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - B. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - C. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - D. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - E. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - F. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - G. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - H. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - I. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - J. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - K. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - L. 2" NPT FILLER WITH REMOVABLE GAS HEAD
 - M. 2" NPT FILLER WITH REMOVABLE GAS HEAD



NOTE:
 1. THE TANK IS TO BE USED AS A STANDARD TANK.
 2. THE TANK IS TO BE USED AS A STANDARD TANK.

STANDARD TANK

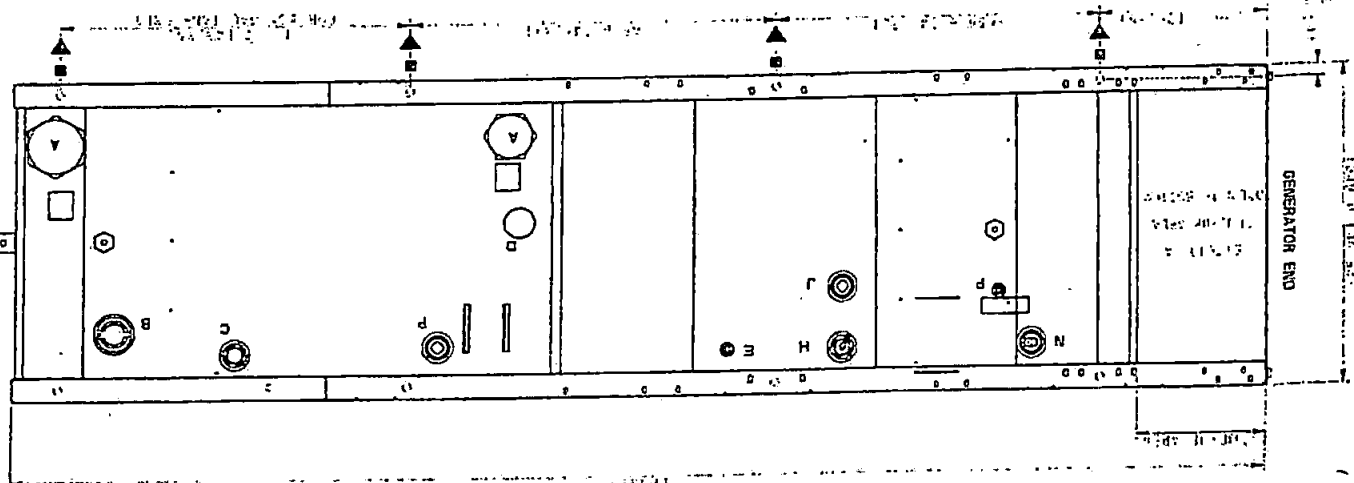
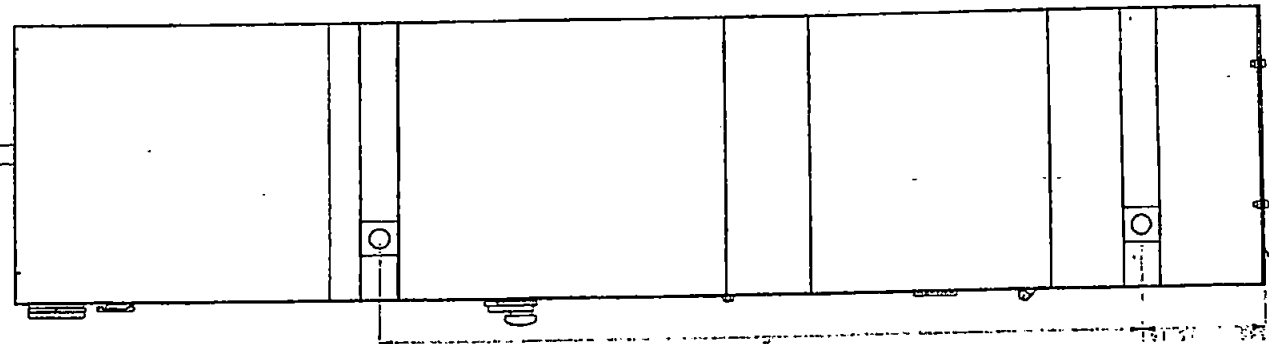
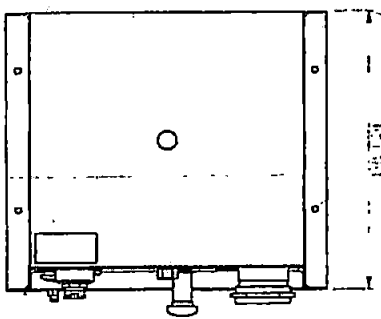
DIMENSIONS		WEIGHT		CAPACITY		VOLUME	
IN.	MM.	LB.	KG.	GAL.	L.	CU. FT.	CU. M.
100	2540	100	45.4	100	378	2.8	0.08
200	5080	200	90.7	200	757	5.6	0.16
300	7620	300	136.1	300	1136	8.4	0.24
400	10160	400	181.4	400	1515	11.2	0.32
500	12700	500	226.8	500	1894	14.0	0.40

KOHLER CO. METRIC
 DIMENSION PRINT
 ADV-B753

ADV-8753
 DIMENSION PRINT
 KOHLER CO METRIC

STATE TANK

NOTE:
 1. ALL DIMENSIONS ARE IN METRIC UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.



TANK FITTINGS
 1. ALL DIMENSIONS ARE IN METRIC UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 7. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

NO.	DESCRIPTION	QTY	UNIT	REMARKS
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