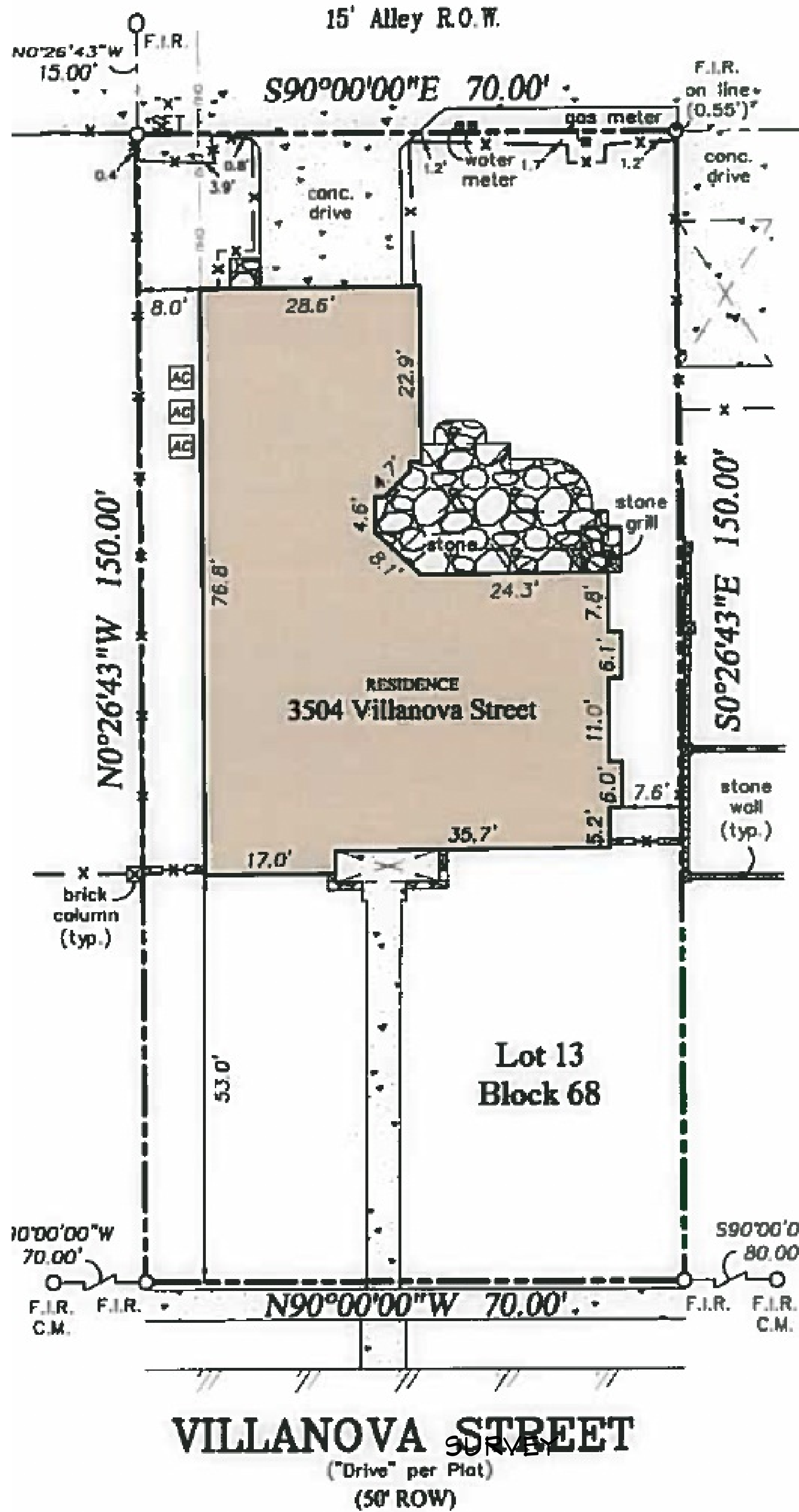




KOHLER.

Model: 38RCLC

Multi-Fuel
Natural Gas/LPG

9001
KOHLER
NATIONALLY REGISTERED



The Kohler® Advantage

- High Quality Power**
Kohler home 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.
- 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.

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 distributor for details.
- Meets 291 kph (181 mph) wind load rating.
- 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 transfer switch).
 - Designed for today's most sophisticated electronics.
 - Electronic speed control responds quickly to varying household demand.
 - Digital voltage regulation protects your valuable electronics from harmonic distortion and unstable power quality.
 - Two-line, backlit LCD screen is easy to read in all lighting conditions, including direct sunlight and low light.
 - Able to connect to the internet using ethernet cable, wireless radios, or any other wifi adapters.
- Engine Features
 - Powerful and reliable 2.2 L turbocharged liquid-cooled engine
 - Electronic engine management system.
 - Simple field conversion between natural gas and LPG fuels while maintaining emission certification.
- Innovative Cooling System
 - Electronically controlled fan speeds minimize generator set sound signature.
- 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.
 - cULus listed
 - Accepted by the Massachusetts Board of Registration of Plumbers and Gas Fitters.
 - Meets NFPA 37 requirements for 18 in. offset for installation.
- Approved for stationary standby applications in locations served by a reliable utility source.

KOHLER.

Model: RXT

Automatic Transfer Switch
100- 400 Amps

9001
KOHLER
NATIONALLY REGISTERED



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
- Contactors electrically and mechanically interlocked
- Double throw inherently interlocked design
- Contactors 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

PLAN INDEX

PAGE	PAGE TITLE
1	Project Overview
2	Site Plan

3D VIEWS ARE NOT TO SCALE AND MAY NOT REFLECT EXACTLY WHAT IS AVAILABLE FOR THE PROJECT. RENDER VIEWS ARE REPRESENTATIONS OF WHAT THE VIEW COULD LOOK LIKE, NOT WHAT IT WILL LOOK LIKE. 2D VIEWS ALWAYS SUPERCEDE 3D VIEWS

RENOVATED GROUP

4848 LEMMON AVE, SUITE 106,
DALLAS, TX, 75219

PHONE: 972-232-1122 EMAIL: INFO@RENOVATED-GROUP.COM

LICENSE NUMBER:

BU118842

REMODEL PLANS FOR:

PIASSICK MORTON
3504 VILLANOVA ST
DALLAS, TX, 75225

PAGE TITLE:

PROJECT OVERVIEW

DRAWN BY:

GW

DATE:

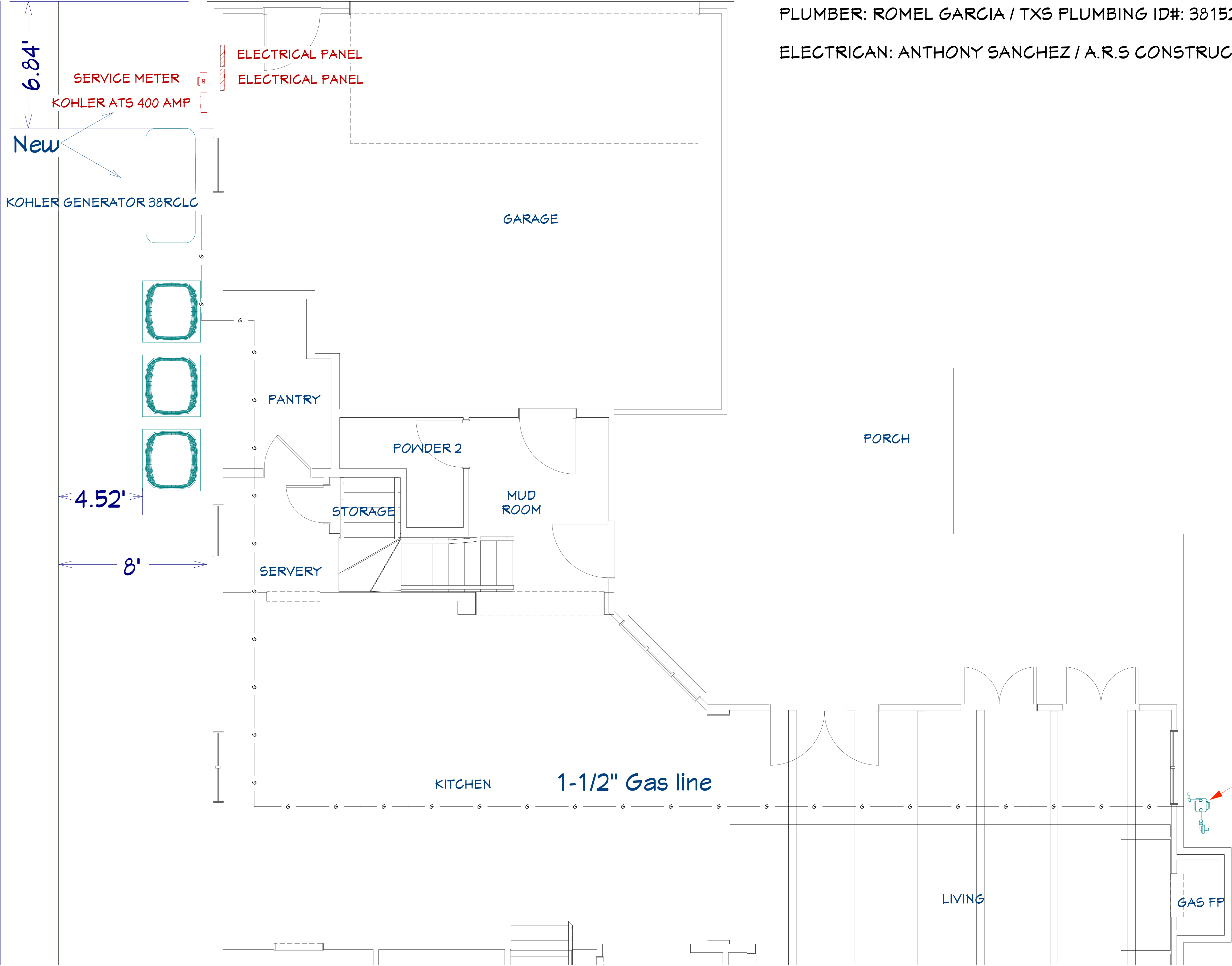
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NA

SHEET #:

1



PLUMBER: ROMEL GARCIA / TXS PLUMBING ID#: 38152

ELECTRICIAN: ANTHONY SANCHEZ / A.R.S CONSTRUCTION TECL# 33512

3D VIEWS ARE NOT TO SCALE AND MAY NOT REFLECT EXACTLY WHAT IS AVAILABLE FOR THE PROJECT. RENDER VIEWS ARE REPRESENTATIONS OF WHAT THE VIEW COULD LOOK LIKE, NOT WHAT IT WILL LOOK LIKE. 2D VIEWS ALWAYS SUPERCEDE 3D VIEWS

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PAGE TITLE:
SITE PLAN

DRAWN BY:
GW

DATE:
10/31/25

SCALE:
3/8" = 1'

SHEET #:
2





ELECTRICAL LOAD CALCULATION

Dwelling size: 5,400 sq ft.

Service voltage: 120/240V single-phase.

General lighting load: $5,400 \text{ sq ft} \times 3 \text{ VA/sq ft} = 16,200 \text{ VA}$

Small appliance circuits: 3,000 VA

Laundry circuit: 1,500 VA

Total before demand = 20,700 VA

Apply NEC 220.42 demand factor: first 3,000 VA at 100% = 3,000 VA; remaining 17,700 VA at 35% = 6,195 VA.

Net general lighting load = 9,195 VA.

Fixed appliances: disposal 900 VA, bath fan 750 VA, microwave 1,500 VA, dishwasher 1,700 VA, trash compactor 1,500 VA, freezer + refrigerator 3,000 VA.

Total fixed appliances = 8,350 VA.

NEC allows 75% demand for 4 or more appliances: $8,350 \times 0.75 = 6,262 \text{ VA}$.

Other loads: HVAC (3 systems @ 1,800 VA/ton) = 5,400 VA; electric dryer = 5,000 VA; elevator = 7,200 VA.

Total other loads = 17,600 VA.

Total service load (standard calculation): $9,195 \text{ VA} + 6,262 \text{ VA} + 17,600 \text{ VA} = 33,057 \text{ VA}$.

Amps at 240V = $33,057 \div 240 = 137.7 \text{ amps}$.

Dwelling demand load = 137.7 amps (138 amps).

In compliance with NEC 430.24, the largest motor load has been accounted for with the required 25% adder, and the 38 kW generator together with the 400-amp Kohler RXT ATS will automatically manage motor starting and running loads through its integrated load-shedding controls.

The proposed 38 kW Kohler generator, in combination with the 400-amp Kohler RXT service-entrance automatic transfer switch, will safely support the home's electrical demand by using Kohler's integrated load-management system. The generator provides approximately 160 amps of continuous capacity at 240 volts, and the ATS continuously monitors this output through its built-in current transformer. If total household demand approaches the generator's limit, the ATS automatically sheds designated nonessential loads—such as additional HVAC systems, electric cooking equipment, or other large appliances—while keeping essential circuits energized at all times. As generator capacity becomes available, the ATS restores these loads in priority order. This coordinated operation ensures that the 38 kW generator can reliably power the residence without exceeding its rated capacity, while maintaining compliance with UL 1008 and NEC requirements.

GAS LOAD CALCULATION

Dwelling size: 5,400 sq ft.

Gas appliances: 3) gas HVAC systems, 2) Navien NPE-180A2 tankless water heaters, 48" Wolf gas range, 3) Gas fireplaces, and 1) Kohler 38RCLC natural gas standby generator.

HVAC gas heating load: 2) 5-ton gas furnaces at approximately 100,000 BTU/hr each = 200,000 BTU/hr; 1) 3-ton gas furnace at approximately 60,000 BTU/hr = 60,000 BTU/hr.

Total HVAC gas heating load = 260,000 BTU/hr.

Domestic hot water: 2) Navien NPE-180A2 condensing tankless water heaters, each rated at 150,000 BTU/hr input.

Total water heating load = 300,000 BTU/hr.

Cooking equipment: 48" Wolf gas range with combined burner and oven output $\approx$ 144,200 BTU/hr.

Generator: Kohler 38RCLC standby generator requires 492 cubic feet per hour of natural gas at full load, equal to approximately 492,000 BTU/hr.

Fireplaces: 3) Gas fireplaces, each rated 49,000 BTU/hr.

Total fireplace load = 147,000 BTU/hr.

Total connected gas load (normal service): 260,000 BTU/hr + 300,000 BTU/hr + 144,200 BTU/hr + 492,000 BTU/hr = 1,343,200 BTU/hr (≈ 1,343 cfh).

Ashley Wendler-Moulton

12/12/2025

Non-coincidental load: the three fireplaces are decorative appliances and are not intended to be used during generator operation. For generator-outage conditions, the diversified simultaneous load excludes the fireplaces.

Total diversified load with generator running:= 1,196,200 BTU/hr (≈ 1,196 cfh).

The existing gas meter at the alley is an AC-250 class meter rated for approximately 250 cfh (≈250,000 BTU/hr), which is below the required connected load of 1,343 cfh; the gas utility will upgrade the meter and regulator to meet the calculated demand.



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)	
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	
400	Standard	1	(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	(6) #6 – 3/0 AWG
		3				

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

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		22,000	GE	THED	150
			85,000	Square D	HL, HR	150
			50,000		BJ	125
			35,000		HG, HJ	150
					BG	125
			18,000		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		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.						

* 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
				GE	THKM3F	1200
400	240	3 pole/ 3 phase	65,000	GE	THLC4	350
	480		42,000	Eaton /Cutler Hammer	HMC	800
				GE	THKM3F	1200
	240	4 pole/ 3 phase	65,000	GE	THQMV	225
				SGL1, SGL4, SGL6, SGP1, SGP4, SGP6		600
				Eaton /Cutler Hammer	LDC, CLDC, HLD, CHLD	600
				Square D	LJ, LL, LR	600
					QG, QJ	250
				Siemens /ITE	HLD6, HLXD6	600
	480		50,000	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, HLMD6, HLMXD6, MD6, MXD6, HMD6, HMXD6, SMD6, SHMD6, CMD6, SCMD6, HMG, LMG	800
					CK400N, CK400NN, CK400H, CK400HH, CJ400L, NSJ400	400
				Square D	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

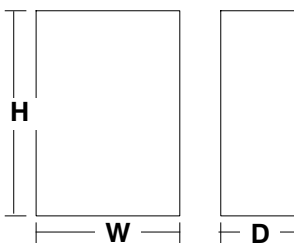
* With Digitrip 310+ LS or LSG Inst. Override set to 12X.

* 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
	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	1702x 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

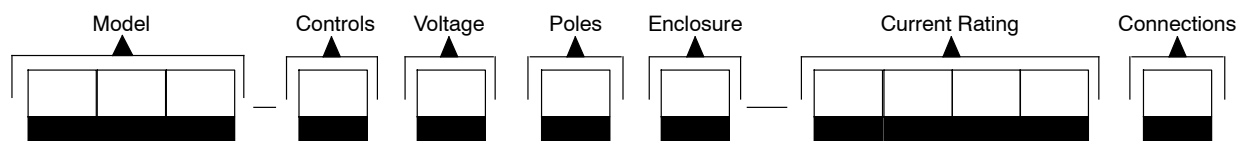
§ Withstand and close-on rating. See pages 3-5 for WCR information and specific breaker ratings.

¶ 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
 0150: 150 amps
 0200: 200 amps
 0300: 300 amps
 0400: 400 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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The Kohler® Advantage

- **High Quality Power**
Kohler home 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.
- **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.

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 distributor for details.
- Meets 291 kph (181 mph) wind load rating.
- 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 transfer switch).
 - Designed for today's most sophisticated electronics.
 - Electronic speed control responds quickly to varying household demand.
 - Digital voltage regulation protects your valuable electronics from harmonic distortion and unstable power quality.
 - Two-line, backlit LCD screen is easy to read in all lighting conditions, including direct sunlight and low light.
 - Able to connect to the internet using ethernet cable, wireless radios, or any other wifi adapters.
- Engine Features
 - Powerful and reliable 2.2 L turbocharged liquid-cooled engine
 - Electronic engine management system.
 - Simple field conversion between natural gas and LPG fuels while maintaining emission certification.
- Innovative Cooling System
 - Electronically controlled fan speeds minimize generator set sound signature.
- 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.
 - cULus listed
 - Accepted by the Massachusetts Board of Registration of Plumbers and Gas Fitters.
 - Meets NFPA 37 requirements for 18 in. offset for installation.
- Approved for stationary standby applications in locations served by a reliable utility source.

Generator Set Ratings

Alternator	Voltage	Ph	Hz	Standby Ratings				Line Circuit Breaker	
				Natural Gas		LPG		Amps	Poles
				kW/kVA	Amps	kW/kVA	Amps		
4E8.3	120/240	1	60	38/38	159	38/38	159	175	2
	120/240*	1	60	34/34	142	34/34	142	-	-
	120/208	3	60	38/48	132	38/48	132	150	3
4D8.3	127/220*	3	60	38/48	125	38/48	125	-	-
	120/240	3	60	38/48	114	38/48	114	125	3
	277/480	3	60	38/48	57	38/48	57	60	3

* Voltage configuration not available from the factory. Field-adjustable by an authorized service technician.
50 Hz options 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. Due to manufacturing variations, the ratings tolerance is ±5%. *Standby Ratings:* Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads with an average load factor of 80% for the duration of a power outage. No overload capacity is specified for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. **GENERAL GUIDELINES FOR DERATING:** *Altitude:* Derate 1.3% per 100 m (328 ft.) elevation above 200 m (656 ft.). *Temperature:* Derate 3.0% per 10°C (18°F) temperature above 25°C (77°F). Availability is subject to change without notice. The generator set manufacturer 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.

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Exciter type	Brushless, Wound-Field
Leads: quantity, type	
4E8.3	4, 120/240
4D8.3	12, Reconnectable
Voltage regulator	Solid State, Volts/Hz
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Unbalanced load capability	100% of Rated Standby Current
One-step load acceptance	100% of Rating
Peak motor starting kVA:	(35% dip for voltages below)
240 V	4E8.3 (4 lead) 74 (60 Hz)
480 V, 380 V	4D8.3 (12 lead) 120 (60 Hz) 88 (50 Hz)

- 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 4%.

Application Data

Engine

Engine Specifications	60 Hz
Manufacturer	Kohler
Engine: model, type	Residential Powertrain KG2204T, 2.2 L, 4-Cycle Turbocharged
Cylinder arrangement	In-line 4
Displacement, L (cu. in.)	2.2 (134.25)
Bore and stroke, mm (in.)	91 x 86 (3.5 x 3.4)
Compression ratio	10.5:1
Piston speed, m/min. (ft./min.)	310 (1016)
Main bearings: quantity, type	5, plain alloy steel
Rated rpm	1800
Max. power at rated rpm, kW (HP)	
LPG	47.8 (64.1)
Natural Gas	47.6 (63.9)
Cylinder head material	Cast Iron
Piston type and material	High Silicon Aluminum
Crankshaft material	Nodular 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)	14
Ampere rating	90
Starter motor rated voltage (DC)	12
Battery, recommended rating for -18°C (0°F):	
Qty., cold cranking amps (CCA)	One, 630
Battery voltage (DC)	12
Battery group size	24

Exhaust

Exhaust System	60 Hz
Exhaust manifold type	Dry
Exhaust temperature at rated kW, dry exhaust, °C (°F)	633 (1171)
Maximum allowable back pressure, kPa (in. Hg)	7.5 (2.2)

Fuel

Fuel System	
Fuel type	Natural Gas or LPG
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	90 min.	—
Ethane, % by volume	4.0 max.	—
Propane, % by volume	1.0 max.	85 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.) §	4.2 (4.4)
Oil added during oil change (on average), L (qt.) §	3.3 (3.5)
Oil filter: quantity, type §	1, Cartridge
Oil cooler	Remote
§ Kohler recommends the use of Kohler Genuine oil and filters.	

Application Data

Cooling

Radiator System	60 Hz
Ambient temperature, °C (°F)	45 (113)
Engine jacket water capacity, L (gal.)	2.65 (0.7)
Radiator system capacity, including engine, L (gal.)	13.2 (3.5)
Water pump type	Centrifugal
Fan diameter, mm (in.)	qty. 3 @ 406 (16)
Fan power requirements (powered by engine battery charging alternator)	12VDC, 18 amps each

Operation Requirements

Air Requirements	60 Hz
Radiator-cooled cooling air, m³/min. (scfm)†	51 (1800)
Combustion air, m³/min. (cfm)	2.1 (74)
Air over engine, m³/min. (cfm)	25 (900)
† Air density = 1.20 kg/m³ (0.075 lbm/ft³)	

Fuel Consumption‡	60Hz
Natural Gas, at % load	m³/hr. (cfh)
100%	13.9 (492)
75%	11.4 (404)
50%	9.3 (327)
25%	5.8 (205)
Exercise	3.4 (121)

LP Gas, at % load	m³/hr. (cfh)	Gal/hr
100%	5.6 (197)	5.4
75%	4.5 (160)	4.4
50%	3.2 (114)	3.1
25%	2.1 (75)	2.1
Exercise	1.2 (41)	1.1

‡ 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.
- Fade-, scratch-, and corrosion-resistant Kohler® cashmere powder-baked finish.

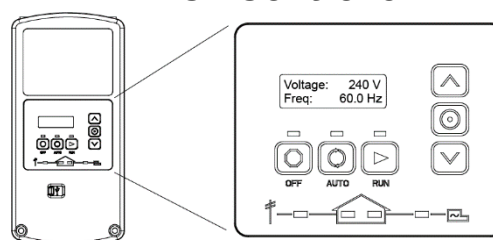
Sound Data

Model 38RCLC sound levels are 52 dB(A) during engine exercise and 60 dB(A) during normal operation.*

All sound levels are measured at 23 ft. (7 m) with no load.

* 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 management.

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 push buttons
 - 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 to connect to internet and be able to use Kohler's remote monitoring mobile app
- 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 management device
 - 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
- cULus listed
- Electronic, isochronous governor
- 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 connection
- Integral vibration isolation
- Line circuit breaker
- NEC prime mover shutdown switch
- Oil drain extension
- Scannable QR code to operation and installation information
- RDC2 controller with built-in battery charger
- Remote monitoring and control of the generator and ATS system
- Premium five-year or 2000 hour limited warranty

Available Options

Starting Aids §

- ☐ Block Heater, 500W, 120 V
- ☐ Oil Pan Heater, 150W, 120 V

§ One block heater or oil pan heater is recommended for ambient temperatures below 0°C (32°F). At temperatures below -18°C (0°F), installation of both heaters is recommended. Single phase QS available with factory-installed block heater.

Available Options, Continued

Controller Accessories

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

Electrical System

- ☐ Battery
- ☐ Battery Heater
- ☐ Wireless Radio Kit

Automatic Transfer Switches and Accessories

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

Miscellaneous

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

Literature

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

Warranty

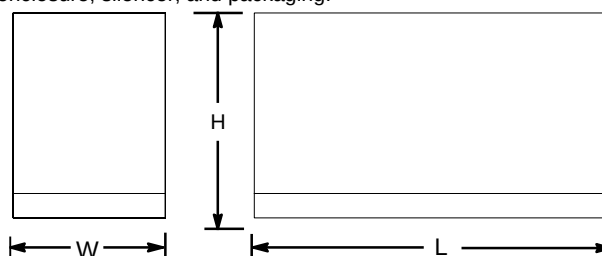
- ☐ Extended 7-Year/2000 Hour Limited Warranty
- ☐ Extended 10-Year/2000 Hour Limited Warranty

Dimensions and Weights

Overall Size, L x W x H, mm (in.): 1880 x 836 x 1169
(74 x 32.9 x 46.0)

Shipping Weight, wet, kg (lb.): 621 (1370)

Weight includes generator set with engine fluids, sound enclosure, silencer, and packaging.



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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