



# Generator Survey

Apparatus Repair & Engineering  
90 West Lee St Hagerstown, MD  
800-592-3100 fax-301-739-3804

Customer: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ W/O: \_\_\_\_\_ Conducted By: \_\_\_\_\_

\_\_\_\_\_ Panel Mfr \_\_\_\_\_ Cat# \_\_\_\_\_

\_\_\_\_\_ Service Volts 120/240 Service Amps \_\_\_\_\_

Portable  Pad Mt  Fuel: Lp  N. Gas  Diesel

Sketch:

### Emergency Panel Loads

Load Description	Cir#	C.B.		C.B.	Cir#	Load Description
<u>Battery Charger</u>		<u>15</u>	2			_____
_____			4			_____
_____			6			_____
_____			8			_____
_____			10			_____
_____			12			_____
_____			14			_____
_____			16			_____
_____			18			_____
_____			20			_____

Notes for Install:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

General Rooms/Home Office		Run/Starting	Qty	Kitchen Appliances		Run/Starting	Qty
Radio AM/FM		50-200		Blender*		300	
Radio AM/FM		50-200		Coffee Maker		1550	
Lightbulb, indicate Watts				Dishwasher*		1500	
Lightbulb, indicate Watts				Electric Grill		1250	
Lightbulb, indicate Watts				Electric Oven		4000	
Lightbulb, indicate Watts				Electric Range, (6" element)		1500	
				Electric Range, (8" element)		2100	
Electric Blanket		400		Food Processor		400	
Fan, Window or Ceiling		250		Freezer*		500	
Answering Machine		5		Microwave Oven		800	
Reciever		100		Refrigerator/Freezer*		800	
Color TV		300-400		Refrig./Freezer* side x side		950	
VCR		100		Toaster ( 4 slice )		1800	
DVD		80		Toaster Oven		1200	
Personal Computer		400-700					
Laptop Computer		50					
Printer		60					
Home Appliances		Run/Starting	Qty	Pumps		Run/Starting	Qty
Automatic Washer*		1250		Well Pumps			
Clothes Dryer (Gas)		700		1/3 Horsepower		750/1400-3000	
Clothes Dryer (Electric)		5500		1/2 Horsepower		1000/2100-4000	
Vacuum Cleaner*		750		3/4 Horsepower		1850/2800-5000	
				1.0 Horsepower		2250/3500-6500	
				1.5 Horsepower		2750/3800-8000	
				Sump Pumps			
				1/3 Horsepower		800/1300-2900	
				1/2 Horsepower		1050/2150-4100	
				Submersible Pump			
				400 GPH		200/400-600	
Heating & Cooling		Run/Starting	Qty	Misc		Run/Starting	Qty
Air Conditioners				Hot Tub		1700	
- Condenser Unit -	RLA/LRA			Hot Tub Pump*		750	
	RLA/LRA			Dehumidifier		650	
	RLA/LRA			Water Conditioner		30	
- Condensor Fa	FLA			Electric Hot Water Heater		5000	
Air Handler	FLA			Garage Door Opener		750	
Burner	FLA			Home Security System		300	
Furnace Fan	FLA						
Circulating Pump (<1/4hp)	600/1800						
Electric Baseboard (enter ft)	250W per Foot						
Space Heater (avg)	1000-1500						

Additional Notes: _____ _____ _____ Generator Selection: _____	Watts Grand Total		
			x.001
	Total KW		
	Diversity Factor		
		<b>Minimum Generator Kw</b>	



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<i>Internal use:</i>	
Start-up _____	w/o _____
Model _____	Serial# _____

We are pleased to offer the following Preventive Maintenance Program for your KOHLER model 12RES Generator. AR&E will perform the following work:

**Perform TWICE per year:**

- Inspect the Emergency Generator for obvious mechanical faults
- Inspect and test Batteries for proper charge and condition
- Check Air Filter for contamination and dirt
- Check ALL fluid levels
- Inspect Transfer Switch
- Simulate power loss and check for proper Power Transfer
- Allow Generator to carry load until Engine reaches operating temperature
- Transfer load back to Utility power and allow Engine to cool and shut down
- Record all data

**Perform ONCE per year:**

- All items listed in the “Perform TWICE per year” paragraph
- Drain and renew Engine Lubricating Oil
- Replace Oil and Fuel Filters
- Dispose of all used Oil and Filters

**Annual Cost \$TBD**

Thank you for this opportunity. If any questions arise, please feel free to contact us at 301-739-8285 or 800-592-3100.

**YES**, please provide the Preventative Maintenance Program as described above.

Customer Signature \_\_\_\_\_

Today's Date \_\_\_\_\_

Print Name \_\_\_\_\_

**PLEASE RETURN A SIGNED COPY, PAYMENT IS NOT DUE UNTILL SERVICE IS PERFORMED**



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## EMERGENCY STANDBY GENERATOR

Your Generator is rated for 12,000 watts of continuous Load. This capacity is less than the total rating on your Electric Service. Therefore, this limitation needs to be considered when operating the Generator during a power outage. The chart below shows some common loads and wattages along with loads identified during our Generator Survey of your home. Use this chart to as a guide to ensure you do not exceed the Generator's capacity of 12,000 watts. When adding up loads, keep in mind that all loads will not run simultaneously.

Load	Run Watts	Start Watts
Air Conditioning	7860	28930
Blender	300	
CD or DVD Player	85	
Clocks, each	4	
Bread Maker	600	
Electric Blanket	400	
Electric Grill/Fry Pan	1250	
Fan window/ceiling	250	1500
Freezer	800	4620
Garage Door opener	670	4000
Hot Plate	1500	
Iron	1200	
Lightbulbs, each	100 avg	
Well Pump	600	2020

Load	Run Watts	Start Watts
Microwave Oven	800	
Personal Computer	400-700	
Power hand tools	250-990	
Refrigerator	1100	5650
Security System	150	
Space Heater	1500	
Stereo Receiver	100	
Sump Pump	600	3600
Television	400	
Toaster	1800	
Toaster Oven	900-1400	
Vacuum Cleaner	750	4200
Water Conditioner	200	

Loads Marked in **BOLD** are circuits in the new emergency panel.

Note: The Generator carries a surge rated 3 times the run rating and is useful for starting motor loads. The surge rating is momentary only.