

### Whole House Generator Basic Questions

The few questions below will aid us in determining the required size of your whole house generator.

**Square footage of your home \_\_\_\_\_**

*Square footage will give us an idea of how many miscellaneous items such as lights and TVs there are in your home*

Does your home have natural gas?                      Yes / No  
Natural gas appliance will lighten the load

Do you know the size of your electric panel?    100 / 200 \_\_\_\_\_

How many air conditioners do you have?

Does your home have a central air conditioner? Yes / No Tons \_\_\_\_\_

Does your home have A/C window Units            Yes / No    how many \_\_\_\_\_

    \*If yes does it need power?                      Yes / No

Does your home have a sump pump?                      Yes / No

Does your home have a well pump?                      Yes / No

Does your home have an electric water heater? Yes / No

Does your home have an on demand (tankless) water heater?    Yes / No

Does your home have gas or electric heat?            Gas / Electric

Does your home have a gas or electric range?        Gas / Electric

Does your home have a garbage disposal?            Yes / No

Does your home have a standalone freezer            Yes / No

Does your home have a gas or electric dryer?        Gas / Electric

Does your home have a security system?              Yes / No

Does your home have a garage?                          Yes / No

    \*If yes does it need power?                      Yes / No

Does your home have a pool?                              Yes / No

    \*If yes does it need power?                      Yes / No

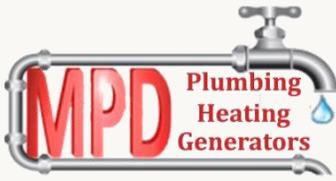
Do you drive an electric car?                              Yes / No

Any other requirement list here \_\_\_\_\_  
\_\_\_\_\_

\*If yes does it need power?

Client with whole house systems may or may not include these items during power failure.  
Determining your power requirements during a power outage is the first step

[Kohler Power Generator](#) – find the right size yourself [Kohler Power calculator](#)



# MPD Plumbing & Heating

**License & Insured Master Plumber 781-544-0020**

### Floor Plan Whole House Generator

Name	Address	Phone	Date
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Save big on electrical work and gas plumbing by installing your generator near breaker panel and gas meter

Rough sketch outline of property (indicate doors, windows, & service)

Locate electric panel

Distance to transfer switch \_\_\_\_\_

Distance to generator \_\_\_\_\_

*cut cost by installing the generator near electric panel*

Locate gas meter

Distance to generator \_\_\_\_\_



Order new meter for gas generator      Yes / No

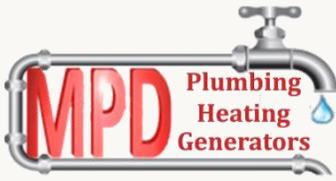
Underground lines - Trench lines?      Yes / No

Concrete pad / gravel base

Notes:

Find a suitable location for gas generator. Building code requires 3-5 feet from house  
Consider bedroom locations (noise)

Signature \_\_\_\_\_



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## Find the Right Size Generator for your Home

Here's a quick, easy way to estimate the right generator size for your home.

Keep in mind that houses already equipped with gas or propane has fewer requirements

Most homes on the South Shore install a Kohler 14kw or 20kw

Air conditioning, electric dryers, freezers, sump pumps and some appliances have a large start up requirements.

MPD Plumbing will analyze your home's specific electrical load and suggest the perfect size generator to fit your home or business and protect your family.

1,000 to 1,600 sq ft	1,600 to 3,000 sq ft	3,000 to 6,000+ sq ft
Air Conditioner 2-3 ton A/C have large startup requirements **	Air Conditioner 3-4 ton A/C have large startup requirements **	Air Conditioner ton 4-5 ton A/C have large startup requirements **
Bedrooms 1-2	Bedrooms 3-4	Bedrooms 5-8
Bathrooms 1-2	Bathrooms 2-3	Bathrooms 3+
Whole House 14 – 20 kW	Whole House 20 – 45 k	Whole House 30 – 125 kW
Partial Coverage 8.5 – 10 kW	Partial Coverage 10 – 14 kW	Partial Coverage 14 – 20 kW

## How it all works. The basics of backup generator.

Unlike portable generators, KOHLER generators start and stop automatically. So you never need an extension cord. Never have to refuel. And never have to worry. Here's why:

- 1) The automatic transfer switch monitors the electricity coming from the utility.
- 2) When the power fails or drops below an acceptable level (brownout), the generator automatically starts, and the transfer switch shifts your power from the utility to the generator. (in about 10 seconds)
- 3) Your KOHLER generator then supplies your home with electricity until the utility power is restored.
- 4) When the utility power is restored, the transfer switch automatically transfers your power from the generator to the utility.
- 5) Your KOHLER generator automatically shuts down, ready for the next power outage.

\* Blackout that last longer than 8 hours

Lighten the load by shutting off unnecessary electric appliances

Oil should be checked every 8 hours of continuous use

Your Kohler engine is similar to an auto engine. Running at full throttle for long periods will shorten the life of your engine

\*\* Under sized generators require a load shed system. Load shed will cut or shed power to selected appliances to prevent an overload that can harm your generator.

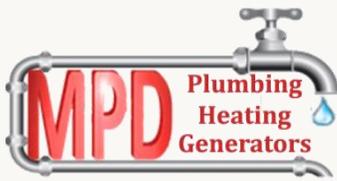
Load shed kit may need to be installed to prevent an overload. A/C units and other high draw appliances that will be shut down if overload is detected

Generator service plan – visit twice each year to test & service your generator, check filter, oil & test battery. Annual oil change

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**781-544-0020**



## **Kohler Residential Generators FAQs**

If your Kohler home generator has been operating during an extended power outage, here are a few tips from our service team to keep handy. Please note that these are merely suggestions and maintenance guidelines. Please refer to your owner's manuals for exact specifications and maintenance schedules. It's very important to service your generator correctly and in a timely manner.



**Q: How do I open the unit?**

**A:** When you purchased your generator, you get a literature packet that contains the key. Insert the key into the lock and turn it 45° to unlock. Lift the hood.

**Q: How do I turn off my generator?**

**A:** Open the hood. Move the circuit breaker to the OFF position to stop powering the house. The circuit breaker is located below the black controller. Once switched OFF, let the generator run for 2-5 minutes then press the blue OFF button located on the controller.

**Q: How long can it run before I need to check the oil?**

**A:** Be sure to check the oil every **8 hours** and **change the oil after every 100 hours of use**. If this is not possible, at the very least, check the oil every 24 hours. It's very important that the oil is checked and changed correctly in a timely manner to avoid damaging your generator. It's important not to rely on the low oil pressure switch (which is very different from a low oil level switch) to shut the machine down. The damage will most likely already be done by the time this occurs.

**Q: How much oil will my generator consume?**

**A:** Since variables such as engine hours, load, model, and other factors influence fuel consumption, there is no standard amount of oil being consumed. As long as you check the oil level and change the oil as instructed then your generator should be in good condition.

**Q: What type of oil do I put in the generator?**

**A:** We recommend 5W30 Full Synthetic Oil. If that's not available, then you may also use conventional mineral base oil. If the engine has been serviced before and filled with conventional oil, then refill it with conventional. **It's important not to mix the synthetic and conventional oil. It can damage your engine.**

**Q: Where is the dipstick?**

**A:** The dipstick is located on the back of the engine and has a yellow ring or handle on the end of it.

**Q: How do I check the oil?** (do you use synthetic or conventional oil?)

**A:** After you turn off the generator, allow the engine to sit for 2 minutes to let the oil settle. To check the oil level, pull the dipstick from the back of the engine, wipe it with a clean rag and place it back into the dipstick tube. Pull the dipstick back out and examine the end of the dipstick. The end of the dipstick has crosshatching between an 'F' (full) and an 'L' (low). The oil level should fall between these two markings. If it is towards the low end, add oil.

To add oil, find the yellow cap (that's engraved with a picture of an oil can) on the front of the engine. Add a few ounces of oil then check the oil level again by inserting and removing the dipstick. Repeat these steps and continue adding oil until the level is at or near the 'F'. **Do not overfill the engine.** If the engine has been serviced before and filled with conventional oil, then refill it with conventional oil and NOT synthetic oil. It's important not to mix the two oils. Once oil is at a desirable level, start the generator by pressing the AUTO button. After the generator is started, flip the circuit breaker to the ON position and the generator should be supplying power to the house. **Ask your Kohler service company what type of oil is being used. Keep a spare oil container handy.**

**Q: How can I extend the life of my Kohler Generator?**

**A:** It is recommended that you turn off all unnecessary lights and appliances during a power outage. For power outages longer than a couple of hours you should lighten or shed the load of your generator, Like an automobile running at full power for long periods of time will shorten the life of your generator.

Your Kohler generator will offer you years of service by taking care of the engine!