

Calculating Electricity Cost per 20-Minute Steam Session

STEP 01

Watts per 20 minute Session

To calculate energy consumption costs for the generator, simply multiply the unit's wattage (ex. 10kW unit = 10,000 watts) by the number of hours (0.33 20-min session) to find the number of watt-hours consumed in each session.

$$10,000 \text{ watts} \times 0.33 = 3,300 \text{ watt-hours per 20 minute session}$$

STEP 02

Convert to Kilowatts (kW)

Electricity is measured in kilowatt hours on your electricity bill. Since we know that 1 kilowatt is equal to 1,000 watts, calculating how many kWh a particular device uses is as easy as dividing by 1,000.

$$3,300 \text{ watt-hours per 20 minute session} / 1,000 = 3.3 \text{ kWh per 20 minute session}$$

STEP 03

Figuring Out the Cost (\$)

Next, pull out your last electric bill and see how much you pay per kWh. For this example, we'll use the nationwide average as of July 2016 - 14 cents per kilowatt hour. To find how much the steam session is costing you, multiply your electricity rate by the kWh per session that you calculated above.

$$3.3 \text{ kWh per 20 minute session} \times \$0.14 = \$0.46 \text{ per 20 minute session}$$

COST OF 20-MINUTE THERMASOL STEAM SESSION = \$0.46

FEELING FABULOUS = PRICELESS

This calculations were done without taking the ThermaSol's exclusive SmartSteam feature into consideration. SmartSteam will constantly adjust and lower the kWh as needed based on the current and set temperatures. Therefor the cost per session using PRO Series generator that includes the SmartSteam will be lower.