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## Generator Sizing.

### **Description:**

This document explains how to pick the correct size generator to use.

### **Notes:**

We at EF Technologies do not recommend or endorse any particular type or brand of generator.

Every generator manufacturer determines the size of their generators differently. A 5000 watt generator from one company may or may not be equivalent to a 5000 watt generator from another company.

### **Instructions:**

In order to determine the correct generator size one must first determine the maximum current required to fuse. This information can be obtained through the manufacturer of the fitting. Please note that the largest fitting does not necessarily take the most current.

Once the Maximum current has been established, simply divide this number by 1.90 to determine the amount of current required by the generator.

### **Example:**

Maximum fitting current = 80 Amps

$80/1.9 = 42.2$  Amps

Therefore, in order to fuse a fitting that requires 80 Amps, it is necessary to have a generator capable of supplying 42.2 amps continuous. Please note that the generator must be capable of supplying this amount of current for sustained periods of time (10 + minutes). Consult the manufacturer of the generator to be sure that the output meets this requirement.

NOTE: The following table details the minimum required generator size for various fitting made by Uponor. Please note that power requirements of the same size fitting vary between manufacturers. Be sure to refer to data from the manufacturer of the fitting that you are using.

Generator Sizing for Uponor Electrofusion Fittings		
Fitting Type	Fitting Size	Min Generator Size
Coupling	1/2" CTS 1/2" IPS 3/4" IPS 1" CTS 1" IPS 1 1/4" IPS 2" IPS	2500 Watt
	3" IPS 4" IPS	3500 Watt
	6" IPS 8" IPS	5000 Watt
Reducer	3/4" X 1/2" CTS 3/4" X 1/2" IPS 1" CTS X 3/4" 2" X 1 1/4"	2500 Watt
Tapping Tees	2" X 3/4" 3" X 3/4" 4" X 3/4" 6" X 3/4" 8" X 3/4" 2" X 2" 3" X 2" 4" X 2" 6" X 2" 8" X 2"	2500 Watt