



POWERMASTER ELECTRIC, INC.  
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### Sizing Report

Sizing Information for:  
 Tim Doyle  
 136 smithwood dr  
 Fuquayvarina, NC 27526

Rated Nominal Voltage                    240  
 Generator Fuel Choice                    Propane  
 Sizing Method (NEC 220)                Part IV  
 (Part III required for selected circuit implementation, Both valid for whole house)

General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft <sup>2</sup> )	2000	6
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

Fixed-In-Place Appliances & Motors	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Dryer	X	5.5		X	0.0
Microwave		1.3			1.3
Range - Oven w/ Top	X	8.5		X	0.0
Water Heater		5.0		X	5.0
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Refrigerator		0.8			0.8

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
2.0 Ton Unit		2.0		X	2.0
1.5 Ton Unit		1.5		X	1.5

Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heat Pump Electric Element	X	5.0	45	X	0.0

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	58	0	58

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	10.5	
Fixed-in-Place Appliances & Motors	9.4	
Sum of all General Loads	19.9	13.9
Cooling	3.5	3.5
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	3.5	3.5
Sizing based on requirements of NEC Article 220, Part IV		17.4
Elevation		0 ft
Minimum size generator for motor starting requirements		7
BTU load required		325000

20 kW Generac Model Generator Recommended

Diagram: Tim Doyle

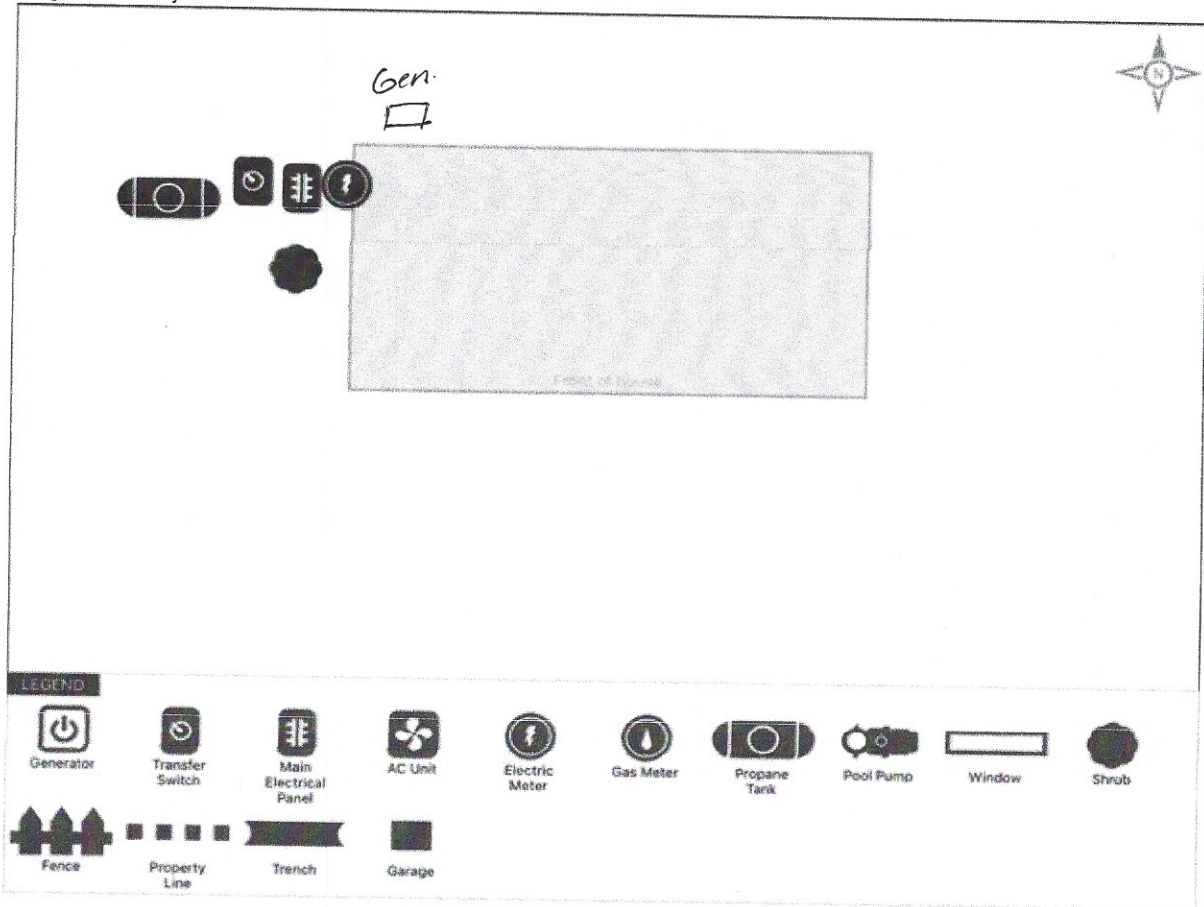


Diagram Notes:

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