



**GENERAC**

POWERMASTER ELECTRIC, INC.  
 7621 PURFOY RD  
 STE 101  
 FUQUAY VARINA, NC 27526-6985  
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Sizing Report

Sizing Information for:  
 Randy Swallow  
 1315 olive branch rd  
 Fuquay varina, NC 27526

Rated Nominal Voltage 240  
 Generator Fuel Choice Natural Gas  
 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> )	2410	7.23
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)
Freezer		0.8			0.8
Refrigerator		0.8			0.8
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Refrigerator		0.8			0.8
Dryer	X	5.5		X	0.0
Water Heater		5.0		X	5.0

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
4.0 Ton Unit		4.0		X	4.0

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)	115	109	109

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	11.7	
Fixed-in-Place Appliances & Motors	9.7	
Sum of all General Loads	21.4	14.6
Cooling	4	4
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	4	4
Sizing based on requirements of NEC Article 220, Part IV		18.6
Elevation		0 ft
Minimum size generator for motor starting requirements		16
BTU load required		306000

22 kW Generac Model Generator Recommended