



POWERMASTER ELECTRIC, INC.  
 7621 PURFOY RD  
 STE 101  
 FUQUAY VARINA, NC, 27526  
 (919) 557-4477

*PRR 09 Aug 22* Sizing Report

Sizing Information for:  
 Ralph Rose  
 14 Whit Ct  
 Angier, NC, 27501

Rated Nominal Voltage 120 / 240 Single Phase  
 Generator Fuel Choice Liquid Propane  
 Sizing Method (NEC 220) Part IV

General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft <sup>2</sup> )	2900	8.70
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2.00	3.00
Laundry Circuits	1.00	1.50

Fixed-In-Place Appliances & Motors	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Dishwasher		1.50	12.50		1.50
Dryer		5.50	22.92	X	5.50
Microwave		1.25	10.42		1.25
Oven		5.00	20.83	X	5.00
Refrigerator		0.80	6.67		0.80
Water Heater		5.00	20.83	X	5.00

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
2.0 Ton Unit		2.00	8.33	X	2.00
3.0 Ton Unit		3.00	12.50	X	3.00

Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heat Pump Electric Ele...		5.00	20.83	X	5.00

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	86.3	84.00	84.0

Summary NEC Load	Load (kW)	NEC Required
General Lighting & Receptacles	13.20	
Fixed-in-Place Appliances & Motors	19.05	
Sum of all General Loads	32.25	18.900
Cooling	5.00	5.00
Heating (w/demand factors)	5.00	3.2500
Larger of Heating & Cooling	5.00	5.00
Sizing based on requirements of NEC Article 220, Part IV		23.900
Elevation		0
Minimum size generator for motor starting requirements		14
BTU load required		355000

24 kW Generac Model Generator Recommended

PR  
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