



ALTERNATIVE POWER SALES AND RENTAL  
 1000 Northgate Ct.  
 Morrisville, NC, 27560  
 (919) 467-8001

## Sizing Report

Sizing Information for:  
 Bridgette Burks  
 9275 US 401 N  
 Fuquay-Varina, NC, 27526

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> )	1700	5.1
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2.0	3.0
Laundry Circuits	1.0	1.5

Fixed-In-Place Appliances & Motors	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Dishwasher		1.5	12.5		1.5
Dryer		5.5	22.92	X	5.5
Freezer		0.8	6.67		0.8
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Freezer		0.8	6.67		0.8
Garage Door Opener		0.6	5.0		0.6
Garage Door Opener		0.6	5.0		0.6
Microwave		1.25	10.42		1.25
Microwave		1.25	10.42		1.25
Range - Oven w/ Top		8.5	35.42	X	8.5
Refrigerator		0.8	6.67		0.8
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Water Heater		5.0	20.83	X	5.0
Water Heater		5.0	20.83	X	5.0

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)

Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heat Pump (3.5 Ton)	X	3.5	14.58	X	3.5
Heat Pump Electric Ele...	X	5.0	20.83	X	5.0

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	100.6	112.0	112.0

Summary NEC Load	Load (kW)	NEC Required
General Lighting & Receptacles	9.6	
Fixed-in-Place Appliances & Motors	33.20	
Sum of all General Loads	42.80	23.120
Cooling	0	0
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	0	0

Sizing based on requirements of NEC Article 220, Part IV 23.120

Elevation	0
Minimum size generator for motor starting requirements	18
BTU load required	355000

24 kW Generac Model Generator Recommended