



731 Mabry Rd.  
 Angier, NC 27501  
 919-639-4837  
 contact@mabryelectrical.com



MABRY'S ELECTRICAL SERVICE,  
 731 MABRY RD  
 ANGIER, NC 27501  
 (919) 639-4837  
 mabryelectrical.com

### Sizing Report

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^2)	1600	4.8
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
<b>Fixed-In-Place Appliances &amp; Motors</b>					
Dryer		5.5		X	5.5
Microwave		1.3			1.3
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Refrigerator		0.8			0.8

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
<b>Air Conditioning &amp; Cooling</b>					
2.5 Ton Unit	X	2.5		X	0.0

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
<b>Heating &amp; Heat Pumps</b>					

	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
<b>Transient Requirement</b>			
Largest Motor's Starting Amps (LRA)	72	63	63

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	9.3	
Fixed-in-Place Appliances & Motors	9.9	
Sum of all General Loads	19.2	13.7
Cooling	0.0	0.0
Heating (w/demand factors)	0.0	0.0
Larger of Heating & Cooling	0.0	0.0
Sizing based on requirements of NEC Article 220, Part IV		13.7
Elevation		0 ft
Minimum size generator for motor starting requirements		10
BTU load required		280000

14 kW Generac Model Generator Recommended