

MABRY'S ELECTRICAL SERVICE, INC.
 731 MABRY RD
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Sizing Report

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 ²)	2300	6.9
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
Garage Door Opener		0.6	5.0		0.6
Microwave		1.25	10.42		1.25
Refrigerator		0.8	6.67		0.8
Water Heater		5.0	20.83	X	5.0

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
4.0 Ton Unit		4.0	16.67	X	4.0

Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
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Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	115.0	130.0	130.0

Summary NEC Load	Load (kW)	NEC Required
General Lighting & Receptacles	11.4	
Fixed-in-Place Appliances & Motors	15.45	
Sum of all General Loads	26.85	16.740
Cooling	4.0	4.0
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	4.0	4.0
Sizing based on requirements of NEC Article 220: Part IV		20.740
Elevation		0
Minimum size generator for motor starting requirements		18
BTU load required		355000

22 kW Generac Model Generator Recommended