

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)	2988	8.964
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2.0	3.0
Laundry Circuits	1.0	1.5

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Fixed-In-Place Appliances & Motors					
Cook Top		3.0	12.5	X	3.0
Dishwasher		1.5	12.5		1.5
Dryer		5.5	22.92	X	5.5
Oven		5.0	20.83	X	5.0
Oven		5.0	20.83	X	5.0
Refrigerator		0.8	6.67		0.8

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Air Conditioning & Cooling					
2.0 Ton Unit	X	2.0	8.33	X	2.0
4.0 Ton Unit		4.0	16.67	X	4.0

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heating & Heat Pumps					

	Estimated (LRA)	Actual (LRA)		Utilized (LRA)
Transient Requirement				
Largest Motor's Starting Amps (LRA)	115.0	0.0		115.0

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	13.464	
Fixed-in-Place Appliances & Motors	20.8	
Sum of all General Loads	34.264	19.7056
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		23.7056
Elevation		0
Minimum size generator for motor starting requirements		18
BTU load required		355000

24 kW Generac Model Generator Recommended