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Randy Sweigart Sizing Report

Rated Nominal Voltage 240
 Generator Fuel Choice Natural Gas
 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)	3600	10.8
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

Fixed-In-Place Appliances & Motors	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Dryer		5.5		X	5.5
Microwave		1.3			1.3
Range - Oven w/ Top	X	8.5		X	0.0
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Refrigerator		0.8			0.8

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
3.0 Ton Unit	X	3.0		X	0.0
2.0 Ton Unit		2.0		X	2.0

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

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	86	104	104

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	15.3	
Fixed-in-Place Appliances & Motors	9.9	
Sum of all General Loads	25.2	16.1
Cooling	2	2
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	2	2
Sizing based on requirements of NEC Article 220, Part IV		18.1
Elevation		0 ft
Minimum size generator for motor starting requirements		16
BTU load required		310000

22 kW Generac Model Generator Recommended