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Richard Cotton 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)	3000	9
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)
Microwave		1.3			1.3
Oven		5.0		X	5.0
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Freezer		0.8			0.8
Freezer		0.8			0.8
Refrigerator		0.8			0.8

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 Ton)		3.0	21	X	5.0

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	145	90	90

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	13.5	
Fixed-in-Place Appliances & Motors	11	
Sum of all General Loads	24.5	15.8
Cooling	0	0
Heating (w/demand factors)	5	5
Larger of Heating & Cooling	5	5
Sizing based on requirements of NEC Article 220, Part IV		20.8
Elevation		0 ft
Minimum size generator for motor starting requirements		11
BTU load required		350000

22 kW Generac Model Generator Recommended