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John Wesselman 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)	2494	7.482
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		8.5		X	8.5
Water Heater	X	5.0		X	0.0
Dishwasher		1.5			1.5
Freezer		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

Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heat Pump (3 Ton)		3.0		X	3.0

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	86	89	89

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	12	
Fixed-in-Place Appliances & Motors	17.6	
Sum of all General Loads	29.5	17.8
Cooling	0	0
Heating (w/demand factors)	3	3
Larger of Heating & Cooling	3	3
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