

Residential Standard Calculation

Version 2014 L

Montefalcon Residence

STEP 1 Article 220.42 & 220.52

sq. ft	2500	General Lighting load	7,500 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
		Gen.Lgt, Sm App.& Laun. Load	12,000 VA
			3,000 VA @ 100%= 3,000 VA
			9,000 VA @ 35% = 3,150 VA
			VA @ 25% = VA

Watts Of Power Electric

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STEP 2 Article 220.50 & 220.51

A/C Condenser & Fixed Electric Space Heating

	VA	AHU	QTY	VA
5 ton	7,130 VA	AHU 1	8kW	8,800 VA
A/C #2	VA	AHU 2	Select	VA
A/C #3	VA	AHU 3	Select	VA
A/C #4	VA	AHU 4	Select	VA
A/C #5	VA	AHU 5	Select	VA

General Lighting Demand Load

6,150 VA

Total	1
Heating Load	8,800 VA
CU Load	7,930 VA

Greater of Heat @ 100% vs.A/C @ 100% **8,800 VA**

STEP 3 Article 220.53

<input type="checkbox"/>	GAS	1	Water Heater	VA
<input type="checkbox"/>	1,400 VA	1	Refrigerator	1,400 VA
<input type="checkbox"/>	600 VA	1	Freezer	600 VA
<input type="checkbox"/>	1,030 VA	1	Dishwasher	1,030 VA
<input type="checkbox"/>	1,127 VA	1	Disposal	1,127 VA
<input type="checkbox"/>	400 VA	1	R / Hood	400 VA
<input type="checkbox"/>	1,200 VA	1	Microwave	1,200 VA
<input type="checkbox"/>	4,000 VA	0	Microwave	VA
<input type="checkbox"/>	340 VA	1	Mini Refrig	340 VA
<input type="checkbox"/>	400 VA	0	Wine Clr	VA
<input type="checkbox"/>	5,000 VA	0	Insta Hot	VA
<input type="checkbox"/>	1,500 VA	0	Ironing Center	VA
<input checked="" type="checkbox"/>	1 hp		Jacuzzi Tub	1,840 VA
<input type="checkbox"/>	select		Sprinkler Pump	VA
<input type="checkbox"/>	select		Well Pump	VA
<input type="checkbox"/>	1/2 hp		Fountain Pump	1,127 VA
<input type="checkbox"/>	select		Elevator	VA
<input type="checkbox"/>			Pool Equip. Panel	VA 100% Demand
<input type="checkbox"/>			GATES	VA No Demand
<input type="checkbox"/>	2500		Other load	2,500 VA No Demand

Appliance Demand Load

9,580 VA

Dryer Demand Load

8,000 VA

Range Demand Load

VA

Service Demand

32,530 VA

Demand Load

136 A

Neutral Demand

74 A

Min.Service Req.

150 A

Min. Feeder size

1

Min. Neutral size

4

Eg. Grding Cond.

6

Copper

Total Appliance Load **11,564 VA**

4 or more demand @ 75% plus 100% demand loads **9,580 VA**

STEP 4 Article 220.54

Electric Clothes Dryers

8,000 VA

STEP 5 Article 220.55

Electric Ranges

Col C demand

0

or Number of appliances

Cooktop

W Col B demand

Cooktop

Col B demand

Oven(s)

W Col B demand

Oven(s)

Col B demand

Number of appliances

2 Dem. Factor

65%

Cooktop & Oven Demand Load

W

Separator line of arrows

Pool Panel Feeder Calculation (See Note)

		A	B	N
Continuous Motors	0	0	0	0
Non-continuous	0	0	0	0
Spa heater 11 kVA	0	0	0	0
Pool heater 3.5 ton	0	0	0	0
Pool heater 5 ton	0	0	0	0
Pool Light	0	0	0	0
Blower	0	0	0	0
other load	0	0	0	0
other load	0	0	0	0
<input type="checkbox"/> Min.Copper Pool Feeder		A	A	A
Minimum Panel Rating	AWG	A	A	A
		Phase Amperes		Neut. load

Continuous Motors

select	<input type="checkbox"/>	240v
select	<input type="checkbox"/>	240v
select	<input type="checkbox"/>	240v
select	<input type="checkbox"/>	240v
select	<input type="checkbox"/>	240v

Non-continuous Motors

select	<input type="checkbox"/>	240v
select	<input type="checkbox"/>	240v
select	<input type="checkbox"/>	240v
select	<input type="checkbox"/>	240v
select	<input type="checkbox"/>	240v

0.0 Motor Neutral Load

Max.Unbalanced Neutral Load