

Residential Optional Calculation

9/25/1997

LORENTZEN 426 Ponderosa Rd CAMERON

by: John Sokolik

Version 2011 L

STEP 1 Article 220.82 (B) (1),(2)

sq. ft	1220	General Lighting load	3,660 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
		Gen.Lgt, Sm App.& Laun. Load	8,160 VA

WIRETECH COMPANY

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STEP 2 Article 220.82 (C)



General lighting, Sm. Appl. & Laundry

8,160 VA

A/C Condenser & Fixed Electric Space Heating

		QTY			
2.5 ton	4,600 VA	AHU 1	9.6 kW	10,474 VA	1
	VA	AHU 2	Select	VA	Qty
	VA	AHU 3	Select	VA	Qty
	VA	AHU 4	Select	VA	Qty
	VA	AHU 5	Select	VA	Qty

Total	1
Heating Load	7,114 VA
CU Load	5,474 VA

Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% **7,114 VA**

STEP 3 Article 220.82 (B) (3)

Appliance Demand Load

10,693 VA

4,500 VA	1	Water Heater	4,500 VA
828 VA	1	Refrigerator	828 VA
817 VA	1	Freezer	817 VA
1,200 VA	1	Dishwasher	1,200 VA
	0	Disposal	VA
	0		VA
1,800 VA	1	Microwave	1,800 VA
	0		VA
720 VA	1	Door Opener	720 VA
	0		VA
	0		VA
	0		VA
<input type="checkbox"/> 1/3 hp		Pond Pump	828 VA
<input type="checkbox"/> select			VA
<input type="checkbox"/> select			VA
<input type="checkbox"/> select			VA
<input type="checkbox"/> select			VA
<input type="checkbox"/> select			VA
<input type="checkbox"/>		Pool Equip. Panel	VA Apply Demand
<input type="checkbox"/>			VA No Demand
<input type="checkbox"/>			VA No Demand

Dryer Demand Load

6,240 VA

Range Demand Load

14,000 VA

Service Demand

28,751 VA

Demand Load

120 A

Neutral Demand

81 A

Min.Service Req.

125 A

Min. Feeder size

1/0

Min. Neutral size

2

Eq. Grding Cond.

4



Aluminium

Total Appliance Load

10,693 VA

STEP 4 Article 220.82 (B) (3)

Electric Clothes Dryers

6,240 VA

STEP 5 Article 220.82 (B) (3)

Electric Ranges

14,000 W

Col C demand

8800

or Number of appliances

Check Box for Gas Range

Cooktop

Col B demand

Cooktop

Col B demand

Oven(s)

Col B demand

Oven(s)

Col B demand

Number of appliances

0 Dem. Factor

Cooktop & Oven Demand Load

Existing 200Amp Service

jmp1jds@comcast.net

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	
Pool heater 3.5 ton		0	0	
Pool heater 5 ton		0	0	
Pool Light	select 0	0	0	0
Blower	select 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		A		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