

Residential Optional Calculation

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Willie Holmes

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Version 2010 H

GenerX Generators Inc.

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

sq. ft	1152	General Lighting load	3,456 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
		Gen.Lgt, Sm App.& Laun. Load	7,956 VA

STEP 2 Article 220.82 (C)

☐

General lighting, Sm. Appl. & Laundry

7,956 VA

Heat Pump w/ Concurrent Supplementary Heating

QTY

1 ton	VA	AHU 1	2.5 kW	3,700 VA	2	VA
HP #2	VA	AHU 2	Select	VA	Qty	VA
HP #3	VA	AHU 3	Select	VA	Qty	VA
HP #4	VA	AHU 4	Select	VA	Qty	VA
HP #5	VA	AHU 5	Select	VA	Qty	VA

Total	2
Heating Load	5,650 VA
HP Load	VA

Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% 5,650 VA

STEP 3 Article 220.82 (B) (3)

Appliance Demand Load

11,660 VA

4,500 VA	1	Water Heater	4,500 VA
1,400 VA	1	Refrigerator	1,400 VA
600 VA	1	Freezer	600 VA
1,030 VA	1	Dishwasher	1,030 VA
690 VA	1	Disposal	690 VA
400 VA	1	Range Hood	400 VA
1,200 VA	1	Microwave	1,200 VA
1,440 VA		Central Vac	VA
170 VA		Mini Refrig	VA
400 VA		Compactor	VA
6,670 VA		Insta Hot	VA
1,500 VA		Ironing Center	VA

Dryer Demand Load

500 VA

Range Demand Load

12,000 VA

Service Demand

22,519 VA

Demand Load

94 A

Neutral Demand

61 A

Min.Service Req.

100 A

Min. Feeder size

4

Min. Neutral size

6

Eq. Grding Cond.

8

☐

Copper

Total Appliance Load

11,660 VA

STEP 4 Article 220.82 (B) (3)

Electric Clothes Dryers

500 VA

STEP 5 Article 220.82 (B) (3)

Electric Ranges

12,000 W

Col C demand

8000

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

Load Shed (2) A/C

jmp1jds@comcast.net

Pool Panel Feeder Calculation (See Note)

Continuous Motors	0	
Non-continuous	0	
Spa heater 11 kVA		
Pool heater 3.5 ton		
Pool heater 5 ton		
Pool Light	select	0
Blower	select	0
other load		0
other load		0

☐ Min.Copper Pool Feeder

AWG

Minimum Panel Rating

A

A	B	N
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
A	A	A
Phase Amperes		Neut. load

Continuous Motors

select	240v
select	240v
select	240v
select	240v
select	240v

Non-continuous Motors

select	240v
select	240v
select	240v
select	240v
select	240v

0.0

Motor Neutral Load

Max.Unbalanced Neutral Load