## TABLE E3602.2

## MINIMUM SERVICE LOAD CALCULATION [220.82(B) & (C)]

### **LOADS AND PROCEDURE**

3 volt-amperes per square foot of floor area for general lighting	g and general	volt-
use receptacle outlets.	=1300*3	3900 amperes

#### Plus

1,500 volt-amperes multiplied by total number of 20-ampere-rated sma	<u>                                     </u>	volt-
appliance and laundry circuits.	=7*1500	10500 amperes

#### Plus

	•		
The nameplate volt-ampere rating of all fastened-in-place, permanently	1-Electric cooktop	+ 2300	
connected or dedicated circuit-supplied <u>appliances</u> such as ranges, ovens,	1-Dryer	+2500	
cooking units, clothes dryers not connected to the laundry <u>branch</u> circuit	1-Single Wall Oven	+4600	
and <u>water heaters</u> .	1-HRV Unit	+1000	volt-
	1-Air Handler	+1500	14300 amperes

1-induction cooktop

# Apply the following demand factors to the above subtotal:

The minimum subtotal for the loads above shall be 100 percent of the first 10,000 volt-amperes of the sum of the above loads plus 40 percent of any =3tons=36000htu=10.55

0,000 volt-amperes of the sum of the above loads plus 40 percent of any	=3tons=36000btu=10.55	volt-
ortion of the sum that is in excess of 10,000 volt-amperes.	kW=10550	10,550 amperes

# Plus the largest of the following:

One hundred percent of the percentage rating(s) of the air conditioning and	Included
One-hundred percent of the nameplate rating(s) of the air-conditioning and	in heat
cooling equipment.	0 pump

One hundred percent of the nameplate rating(s) of the <a href="heat pump">heat pump</a> where a heat pump is used without any supplemental electric heating. One-hundred percent of the nameplate rating of the electric thermal storage and other heating systems where the usual load is expected to be continuous at the full nameplate value. Systems qualifying under this selection shall not be figured under any other category in this table.

1-DHW Heat Pump	4500

0

=2400

One-hundred percent of nameplate rating of the <a href="heat pump">heat pump</a> compressor and sixty-five percent of the supplemental electric heating load for central	
electric space-heating systems. If the heat pump compressor is prevented	
from operating at the same time as the supplementary heat, the	
compressor load does not need to be added to the supplementary heat load	
for the total central electric space-heating load.	0
Sixty-five percent of nameplate rating(s) of electric space-heating units if	
less than four separately controlled units.	0
Forty percent of nameplate rating(s) of electric space-heating units of four	
or more separately controlled units.	0
The minimum total load in amperes shall be the volt-ampere sum	
calculated above divided by 240 volts.	182.2917