

3750 LAKE SHORE DRIVE, INC.
ELECTRICAL LOAD CALCULATION WORKSHEET

Conditions: Added wiring to an existing service in a single family dwelling. (i.e.: Renovation, Kitchen Remodel, Laundry Equipment Added, HVAC Replacement/Upgrade, etc.) Based on NEC 220.83

The building has 3-phase 120V/208V service, however, each individual apartment may have either Single-Phase 120V/240V Service or 3-Phase 120V/208V Service.

(The type of service shall be verified by a licensed electrician.)

Existing plus Added Loads (less HVAC)

sq. ft. @ 3 watts sq. ft. (for general lighting and receptacles)		watts
Small Appliance Circuits @ 1500 watts ea. (Minimum is two)		watts
Electric Clothes Dryer (Enter larger: 5,000 watts or nameplate rating)		watts
Laundry Circuit(s) @ 1500 watts ea. (Minimum is one)		watts
Range (Nameplate Rating)		watts
Cooktop (Nameplate Rating)		watts
Oven (Nameplate Rating)		watts
Dishwasher		watts
Microwave Oven		watts
		watts
		watts
		watts
Total Calculated Load (less HVAC)		watts

Compute the HVAC load and enter the LARGER of these air-conditioning or space heating loads.

#1 Air Conditioning Cooling Load (Volts X Amps = Watts)		watts
#1 Air Handler (Volts X Amps = Watts)		
#2 Air Conditioning Cooling Load (Volts X Amps = Watts)		
#2 Air Handler (Volts X Amps = Watts)		
Total Calculated Cooling Load		watts
OR		
(Radiant floor/ceiling heat, central electric furnace, electric baseboard heaters, etc.)		
Electric Space Heating Load (Volts X Amps = Watts)		watts
#1 Air Handler (Volts X Amps = Watts)		
#1 Humidifier (Volts X Amps = Watts)		
#2 Air Handler (Volts X Amps = Watts)		
#2 Humidifier (Volts X Amps = Watts)		
Total Calculated Heating & Humidification Load		watts

Service Demand

Total Computed Load (NEC 220.83)

First 8kw of Total Calculated Load (less HVAC) @ 100%		watts
Remainder of Total Calculated Load (less HVAC) @ 40%		watts
HVAC Load @ 100% (Enter the larger of the Cooling or Heating Loads)		watts
Calculated Service Load		watts

Ampacity for Single-Phase Service

Calculated Service Load	÷	Service Voltage	=	Minimum Service Ampacity
watts	÷	240 volts		amps

OR

Ampacity for 3-Phase Service

Calculated Service Load	÷	Service Voltage	÷	3-Phase Factor	=	Minimum Service Ampacity
watts	÷	208 volts	÷	1.73	=	amps

Licensed Electrician's Name (Print)

Electrician's License No. & Issuing Municipality

Licensed Electrician's Signature

Date

Apartment