

Electrical Load Calculation - Commercial 106 EMS

Receptacles & Lights @ 3w/sqft.	No.	Load in Watts
Wall Sconce	31	4,500
Emergency Lighting	4	400
Exit Lighting	8	960
Air Handler	3	300
Exhaust Fan	1	13,200
Microwave	2	200
Water Heater	1	1,500
	1	4,500
Total		25,560
Calculations		
Derated Load		10,000
224		224
Heating Unit		13,200
		23,424
Service Amp =		106

Receptacles & Light @ 3w/sqft	No.	Load in Watts
Air Handler	1	1,710
Exhaust Fan	1	10,000
Range	1	100
Dishwasher	1	8,000
Kitchen Circuits	1	1,500
Water Heater	1	3,000
Laundry Circuits	1	4,500
Heat Pump	1	1,500
Microwave	1	1,500
Refridgerator	1	1,200
Total		36,010
Calculations		
Derated Load		10,000
4,404		4,404
Aux Heat		10,000
		24,404
Service Amp =		114 AMPS

Typical of 2 apartments each

