

Electrical Load Calculation - Commercial 106 EMS

	No.	Load in Watts
Receptacles & Lights @ 3w/sqft.	31	4,500
Wall Sconce	4	400
Emergency Lighting	8	960
Exit Lighting	3	300
Air Handler	1	13,200
Exhaust Fan	2	200
Microwave	1	1,500
Water Heater	1	4,500
Total		25,560
Calculations		
Derated Load		10,000
224		224
Heating Unit		13,200
		23,424
Service Amp =		$\frac{23,424}{220}$
		106

	No.	Load in Watts
Receptacles & Light @ 3w/sqft		1,710
Air Handler	1	10,000
Exhaust Fan	1	100
Range	1	8,000
Dishwasher	1	1,500
Kitchen Circuits	1	3,000
Water Heater	1	4,500
Laundry Circuits	1	1,500
Heat Pump	1	3,000
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 =		$\frac{24,404}{220}$
		114 AMPS

Typical of 2 apartments each

