

"RULE OF THUMB" VALUES

| PARAMETER | VALUE | UNITS | APPLICATION |
|-------------------------------|----------|------------|---|
| HEATING CAPACITY | 15-20 | BTU/SF | NEWER BUILDINGS, LOW VENTILATION RATES |
| | 20-30 | BTU/SF | OLDER BUILDINGS OR HIGH VENTILATION RATES |
| | 40-50 | BTU/SF | VERY OLD BUILDINGS OR VERY HIGH VENTILATION RATES |
| COOLING CAPACITY | 250± | SF/TON | CONFERENCE ROOMS, VERY HIGH EQUIPMENT LOADS |
| | 400± | SF/TON | TYPICAL OFFICE SPACE |
| | 600± | SF/TON | RESIDENTIAL |
| AIRFLOW | 400± | CFM/TON | ALL SYSTEMS |
| CHILLED WATER FLOW | 2.5± | GPM/TON | ALL SYSTEMS |
| CONDENSER WATER FLOW | 3.0± | GPM/TON | ALL SYSTEMS |
| REFRIGERATION | 1.2± | KW/TON | AIR COOLED RECIPROCATING |
| | 0.9± | KW/TON | WATER COOLED RECIPROCATING |
| | 0.6± | KW/TON | WATER COOLED CENTRIFUGAL |
| VENTILATION | .05 | CFM/SF | INFILTRATION OR CLOSED DAMPERS |
| | 0.1± | CFM/SF | CODE MINIMUM |
| | 0.2± | CFM/SF | ASHRAE STANDARDS |
| | 0.4± | CFM/SF | NURSING HOMES, LABORATORIES |
| | .5-2.0 | CFM/SF | HOSPITALS |
| LIGHTING LOAD | .5-1.0 | WATTS/SF | LOW - HALLWAYS, VERY EFFICIENT BUILDINGS |
| | 1.5-2.0 | WATTS/SF | MEDIUM - TYPICAL OFFICE BUILDINGS |
| | 2.5-3.5 | WATTS/SF | HIGH - LABS, TESTING, ETC. |
| MISCELLANEOUS OR "PLUG" POWER | .3-.5 | WATTS/SF | LOW - OLDER OFFICE BUILDINGS - VERY FEW P.C.'S |
| | .5-1.0 | WATTS/SF | MEDIUM - TYPICAL OFFICE SPACE |
| | 1.0-1.5 | WATTS/SF | HIGH - DENSELY OCCUPIED OFFICES - EVERYONE WITH A P.C. |
| SUPPLY FAN HP | .25-.5 | HP/1000CFM | LOW - LOW-RISE OFFICES WITH FAN-COIL UNITS OR SMALL ROOFTOP A/C UNITS |
| | .75-1.25 | HP/1000CFM | MEDIUM - TYPICAL LOW-RISE OFFICE BUILDINGS WITH CENTRAL AHU'S |
| | 1.5-UP | HP/1000CFM | HIGH - HIGH-RISE BUILDINGS WITH LARGE CENTRAL AHU'S |