

Commercial Load Data Sheet

| Technicians workbook | | | | |
|-------------------------------|---------------|----------|------------|------|
| Change percentages as needed. | | | | |
| Lighting: | KW | 0 | Percentage | 100% |
| A/C | KW | 0 | Percentage | 0% |
| Heat (Aux) | KW | 0 | Percentage | 65% |
| Heat Pumps | | | | |
| Receptacle | KW | 0 | Percentage | 25% |
| Largest Motor | KW | 0 | Percentage | 0% |
| Additional Motors | KW | 0 | Percentage | 75% |
| Tankless Heater | KW | 0 | Percentage | 0% |
| Misc: | KW | 0 | Percentage | 25% |
| | | | | |
| | Total: | 0 | KW | |

Lowest KW of AC or Heat usage **MUST** have zero to calculate properly!!!

Note that either heat or A/C, whichever is larger, is used to calculate load: never both together.

For less than 50 KW use the GS Deposit sheet.
For more than 50 KW use the GSD Deposit sheet.

Notes:

Lighting: Commercial buildings are calculated at 100% diversity factor.

Air Conditioning: One unit is taken at 100%, (2) units at 75% and (3) or more units at 65%

Heat: Heating and A/C are usually in the same unit and the same diversity factors apply.
If there is a **Heat Pump**, then use the A/C value instead of the Heat Value.

Note that either heat or A/C, whichever is larger, is used to calculate load: never both together.

Receptacle Load: light office load where receptacles are used for desk lights, computers, clocks, etc. is taken at 20% diversity. Light manufacturing or food preparation applications are taken at 35%. Heavy Manufacturing requires some detained knowledge of how the operation will work and consultation with the customer is highly recommended, but will generally not exceed 65%.

Motors: One motor is taken at 100%, two motors at 75%, three or more requires consultation with the customer and will generally fall between 35% and 65%.

Miscellaneous: This category typically encompasses a variety of equipment and the technician should consult with the customer on unusual items. Common sense should prevail in determining diversity factors for loads in this category. The same guidelines given in receptacle loads will often be applicable here.

After the loads given on the load data sheet are multiplied by the diversity factor, they can be added together to obtain the total demand for the customer. This is the demand that will be used to determine the customer's deposit.

Svc Conductor Matl List

- Aluminum
- Copper