

**Cost Comparison of Cabinet Coolers vs. Freon Air Conditioners**

| Cabinet Cooler - Cost Comparison |  |   |
|----------------------------------|--|---|
|                                  | <b>AiRTX Stainless Steel BTU Model 70325</b>                                       | <b>Freon Air Conditioner 1500 BTU</b>   |
| Initial Unit Cost                | \$465.00 (20 year life)<br>\$23.25/year  | \$1800.00 (5 year life)<br>\$360.00/year  |
| Installation                     | \$50.00/hour<br>\$2.50/year  | \$50.00/hour<br>\$10.00/year  |
| Maintenance                      | <b>No Maintenance</b>  | 4 hours/year for changing freon, cleaning and replacing filters, leak checks<br>\$200.00/year |
| Operation                        | 5 hours/day, 9 months/year<br>Based on \$0.25/1000 cu. ft. of air<br>\$288.00/year | 7 hours/day, 9 months/year<br>\$72.00/year  |
| <b>Total Operation Cost</b>      | <b>\$313.75/year</b>   | <b>\$642.00/year (Not including downtime for repairs)</b>                                     |

*\*Freon air conditioners must be deregulated by 65% at 90°F and 95% at 115°F. Therefore, the freon air conditioners must operate longer than the Cabinet Cooler or be oversized to provide the same amount of cooling during warmer weather when the ambient temperature is higher.*

*The recommended thermostat setting is 90°F (32°C). This setting is within the safe operating limits of most components and reduces condensation on the outside of the cabinet during hot humid weather.*

*Temperature swings create connector stress, while excess heat dries circuit boards and results in the life spans of the control being cut in half for every 20°F (10°C) over normal operating temperatures of 100°F (38°C).*

*The Stainless Steel Cabinet Coolers are very inexpensive insurance against premature replacement of a \$2000 to \$3000 electronic circuit board.*

| Standard NEMA ENCLOSURES |   |
|--------------------------|---|
| Enclosure Rating         | <b>NEMA - National Electrical Manufacturers Association (NEMA Standard 250) Electrical and Electronic Manufacturers Association of Canada (EEMAC)</b>   |
| Type 4                   | Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, and hose directed water, undamaged by the formation of ice on the enclosure.            |
| Type 4x                  | Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, and hose directed water, undamaged by the formation of ice on the enclosure. |
| Type 12                  | Enclosures are intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping noncorrosive liquids..  |