

Things are changing...

- ⚡ Crude oil prices continue to soar
- ⚡ Gas and fuel prices, 50% to 75% up
- ⚡ New energy codes and air quality regulations
- ⚡ Stable electric rates, huge sales benefit

We are your source for 100% efficient electric energy and control products.

Residential and Small Commercial Applications

Solid-State Sub-Meter

NorAire™ HP Boiler

Plenum and Duct Heaters

Make-Up Air


Indoor Unit

Outdoor Unit

Air Handler

Electric Boilers

Disconnects

 **Made in USA**

Specializing in products for the electrical utility industry since 1976.

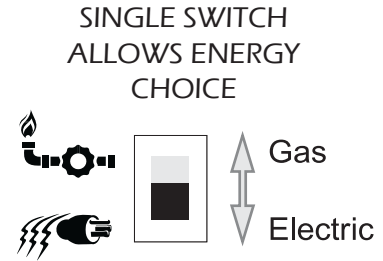
Dual Heat - POWER OF CHOICE

WHAT ARE THE ENERGY COST COMPARISONS?

When is it cheaper to heat with electric versus gas? The chart below is a conservative estimate that compares energy costs.

EL Rate (¢/kWh)	LP, Std (\$/Gal)	LP, 90+ (\$/Gal)	Fuel Oil (\$/Gal)	NG, 90+ (\$/Therm)
3.5	0.56	0.85	0.81	0.92
4.0	0.64	0.97	0.91	1.05
4.5	0.72	1.09	1.11	1.19
6.0	0.97	1.40	1.47	1.49
7.0	1.41	1.69	1.72	1.85

The kWh rate relates to one gallon, liquid fuel, at appropriate furnace type.



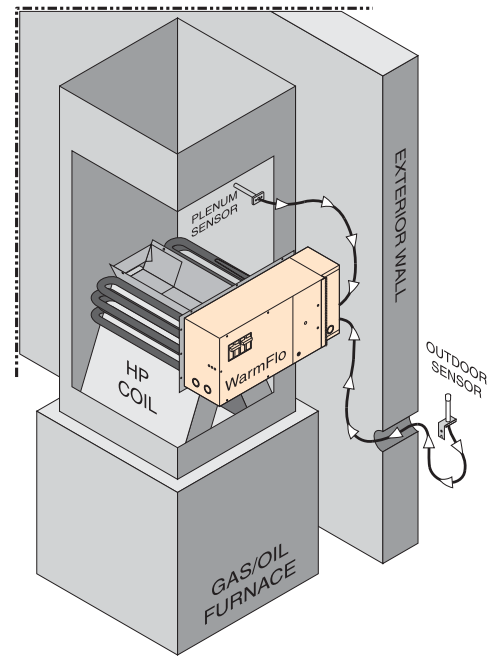
Plenum Heater - Add-On or Conversion

Since 1980, the **Electro-Mate™** remains the leading product certified and approved for direct furnace plenum installation.

At 40% to 60% the cost of a new gas furnace, any gas or oil furnace can very easily be converted to electric heating. As a dual heat conversion, the existing furnace remains the backup or standby unit, also providing opportunity for easily switching between fuels.

WarmFlo® Select Heat Pump Package

Outdoor and duct sensing controller added to the above Electro-Mate. Overcomes heat pump “cold air syndrome”, has adjustable minimum warm air temperature delivery, and automatically ramps up delivery temperature as the heat pump supply air temperature decreases. This plenum heater/WarmFlo add-on provides excellent air source heat pump performance down to at least 0° F.



NorAire™

Air Source Energy ♦ Hydronics/Water Heating Output



Electro’s NorAire project, under development for six years, is based upon using outside energy through a heat pump process. In addition the Electro technique increases northern climate heat pump output and efficiency.

Current products involve hydronics water heating boiler with year ‘round domestic hot water heating at 210% (annual or 350% peak) and swimming pool heat pump heater, either summer or year ‘round swimming pool applications.

Electro-Boiler™

SINGLE PHASE OR 3-PHASE



The efficiency of electric energy combined with a multitude of special Electro Industries' features and accessories provides a new opportunity for hydronic heating. Also, the Electro hydronic system offers installation and first-time cost much lower than gas boiler systems. Comparison of electric rates is not the only factor when choosing an Electro Industries' hydronic system.

All models have a built-in electronic aquastat, WarmFlo controller concept, and zone control options for most hydronic applications.

Radiant Floor

Forced Air Coil

Dual Heat

Water Maker

Fin Tube Radiation

Storage



Complete product range, five vessel sizes.

Mini-Boiler starting at 5 kW (14,000 Btu/h) through Industrial 300 kW (1,024,000 Btu/h).

Radiant Floor Heating

Everyone who has it, loves it, and now those that do not are learning about its improved comfort and efficiency. Hydronic under-floor tubing seems to be one of the fastest growing markets we have seen in many years.



Electronic Sub-Meter



Very simple installation for any energy (kWh) measurement requirement - off-peak rate, electric heat rate, load survey monitoring, apartment sub-metering, RV parks, etc.

Can be installed in any of the Electro Industries' off-peak products or within Peak Interrupter relay box. The second CT can be used to monitor water heater.

Make-Up Air

The new energy codes and continuing emphasis on indoor air quality means new products will be required.

All units have an outlet sensor which dynamically controls the electric element to arrive at a user-defined fixed temperature.

Currently we have a series of boost heaters designed to increase the inlet air temperature for mechanical ventilation. The minimum fresh air allowed seems to be 40° F.



The model below has complete blower, filter, heat rise components, etc.



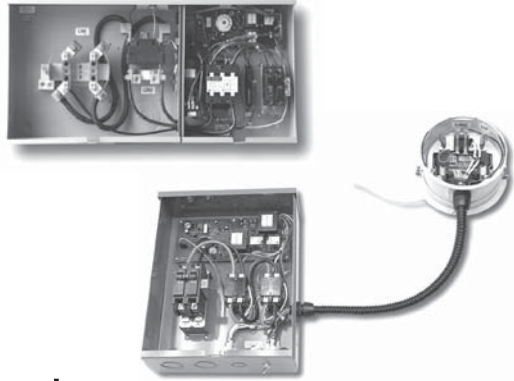
Helps HRV/ERV's conform to new -13°, 72-hour, test

Standby Generator Transfer

Easy installation, reduced labor and cost, because the transfer switch is incorporated at the utility meter enclosure.

Complete product line for 240-volt residential or small commercial - manual or automatic start generator. 200-amp and 320-amp utility LINE to LOAD disconnect at several generator sizes.

Bypass meter block and other meter extender types available.



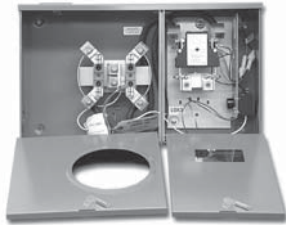
Control Demand - Big Rewards



Application - 3-phase commercial/industrial or any demand component rate. Our products have been used to reduce monthly demand charges and real-time Peak Alert demand reduction programs for over 13 years.

A Microsoft® network compatible PC software program provides demand profiling and real-time pop-up Windows® set at user-defined demand levels.

Disconnects



Whether the application is an off-peak panel, panel service interrupt, TOU disconnect, delinquent account, or similar, there is a disconnect product to meet your requirements. All are contactor latching or DC coil with no noise or hum.



All Electro products have their own literature sheet, request as needed. Also, our Web site (www.electromn.com) is a great resource for additional information on all of our products.

Most products can be shipped UPS. Our 34 years of manufacturing specialty products gives us a wealth of application experience available to you. All of our products are designed and manufactured in Minnesota. We pride ourselves in offering personal telephone assistance and are available for your questions.

Just call 800.922.4138 and ask for Technical Support.



**ELECTRO
INDUSTRIES**

Monticello, Minnesota
800.922.4138
www.electromn.com