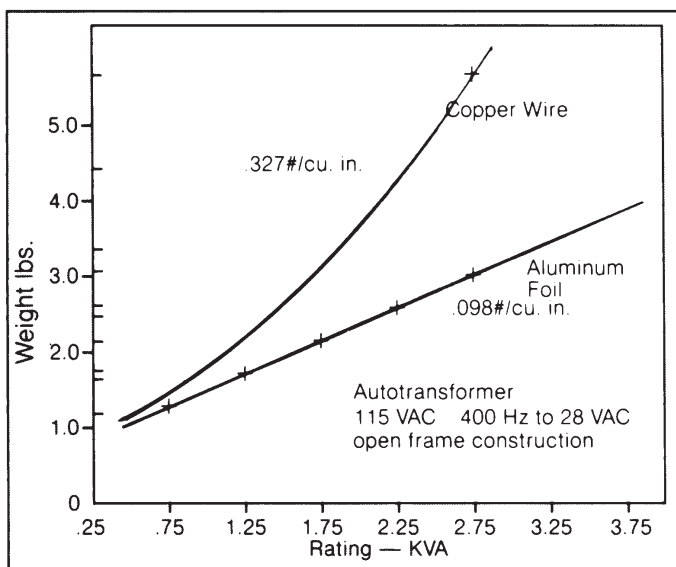


Electrocube designs and manufactures transformers and inductors using aluminum or copper foil in place of the standard copper wire traditionally used for coil windings. As the result of a company-funded development and testing program, Electrocube introduced this unique construction technology, providing practical and economical aluminum foil-wound transformers in the 25 VA through 50 KVA power range.

For over thirty-five years, these foil transformers have been used in commercial and military applications exhibiting exceptional reliability and efficiency. The use of aluminum or copper foils result in a transformer with many advantages over conventional wire-wound versions:

- Increased reliability
- Reduced size and weight
- Higher ambient temperature operating capability
- Improved electrical efficiency
- Increased electrical stress resistance
- Better overall regulation



Weight comparison - copper wire versus aluminum foil coil transformers



The basic transformer construction consists of electrical grade aluminum or copper foil, temperature suitable interwinding insulation, fiberglass and nomex sheet insulation. The complete unit is vacuum impregnated with a specially formulated epoxy resin developed to assist in heat transfer and to bond the components into a stable, dense unit. Units are produced as isolation or autotransformers in all standard mechanical configurations (open frame or enclosed), using stamped or "C" core laminations to operate within the following parameters:

SINGLE OR MULTIPHASE

- Frequency:** 300 Hz to 10 KHz
- Power:** 25 VA to 50 KVA and up
- Voltage:** Fractional volts 110 to 600V (higher voltages available)
- Temperature:** -50° C to 250° C ambient (fully rated)

Of the hundreds of available designs, a sampling is listed here to indicate typical sizes and weights. The efficiency of all transformers listed exceeds 95% with regulations of 2% to 5%. Specific, qualified designs are available as OEM or replacement parts for all major commercial and military aircraft as well as many land-based facilities.