

# Vectronics Wet Dummy Load *with Oil*

## Model VEC-554

The VEC-554 provides a versatile method of loading a RF transmitter. The oil cooled resistive element is capable of dissipating 1 KW of RF power and provides low VSWR up to 400 MHz.

### OPERATION

Fill the VEC-554 pail to within  $\frac{3}{4}$ " of the top with VECTRONICS TRANSFORMER OIL. This is required for proper oil circulation and cooling of the resistive element. Mineral oil may be used, but **DO NOT USE ANY TYPE OF MOTOR OIL**. Motor oil does not have a sufficiently high vaporizing temperature and will cause excessive vapor. **Vectronics Transformer Oil does not contain PCBs (Poly Chlorinated Biphenyls).**

Before operating the VEC-554 study the duty cycle chart in Figure 1. If you are uncertain of the power level being supplied, assure safe operation by frequently touching the side of the pail near the bottom with your fingers. If the side of the pail is too warm to allow your fingers to remain, or if vapor is coming from the can, turn off the RF transmitter until the oil cools. If vapors appear at power levels less than 200 watts, the oil level should be checked.

**Warning:** Care must be taken in handling the oil. Wash hands after filling the pail. Keep the oil away from food and out of the reach of children. If the VEC-554 overheats, **DO NOT BREATHE THE VAPORS** and turn off the RF transmitter.

### Derating curve

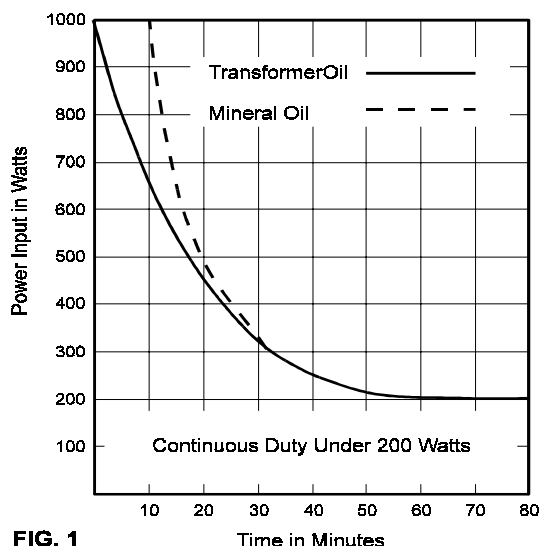


FIG. 1

### Specifications

IMPEDANCE: 50 Ohms, Resistive

VSWR: < 1.2:1 (Freq: 0-30 MHz)  
< 1.5:1 (Freq: 30-300 MHz)  
< 2.0:1 (Freq: 300-400 MHz)

POWER

DISSIPATION: 1000 Watts continuous, 10 minutes; see derating curve (Transformer Oil)

DIMENSIONS: 7-1/2" High x 6-5/8" Diameter

NET WEIGHT: 1.5 Lbs. (Oil weight not included)