

## Tube of the Month

# 4CX35,000C/8349

The upper limit that an air cooled tube can be made is about 50 KW in dissipation. After that the heat gets too great and liquid or vapor cooling must be used. In commercial broadcast within the United States, the most powerful or clear channel AM stations are usually no more than 50 KW which requires a tube to be able to have an input of around 70 KW. A very popular tube for this application was EIMAC's 4CX35,000C which was introduced in about 1962. Maximum ratings are 20,000 volts at 15 amps so an output of 50,000 watts leaves lots in reserve. They were recommended for 100,000 watt output transmitters and a pair make an excellent modulator if you needed 200,000 or more watts of audio.

I was lucky enough to be given a pair of these 50 pound monsters that had been used in a Harris MW-50 transmitter at station WBZ in Boston. You really need those handles. The second tube is destined for the Tube Collectors Association Museum in Medford, Oregon if I can get it into the car.

Visit the museum at [N6JV.com](http://N6JV.com)  
Norm N6JV

