

# COSSOR 4 X.P.

## 4-VOLT 1 AMP. DIRECTLY HEATED MAINS POWER OUTPUT

The 4 X.P. is a modern super-power valve capable of supplying considerable output. The efficiency of the valve is good for a triode and the sensitivity, as evidenced by the mutual conductance of 7 m.a./v., is also high. The maximum allowable dissipation at the anode is 12 watts, and this must not be exceeded.

The valve is of the directly heated type and, if automatic bias is used, care must be taken that the resistance across the filament terminals is truly centre tapped, otherwise hum will result. No hum need be feared, however, due to lack of thermal inertia of the filament.

For large radiogram receivers or amplifiers, two of these valves in push-pull give an output adequate for almost all purposes. A large energised speaker should be used.

### TECHNICAL DATA

For Extra Power Use.

Filament Voltage .. .. .	4
Filament Current (Amps.) .. .. .	1.0
Impedance (ohms) .. .. .	900
Amplification Factor .. .. .	6.3
Mutual Conductance .. .. .	7 m.a./v.
Maximum Anode Voltage .. .. .	250

} at  $V_a$  100  
} at  $V_g$  0

WITH A.C. HEATED FILAMENT.

Grid Bias for 250 Anode Volts .. .. .	-28.5 v.
Anode Current for 250 Anode Volts with -28.5 volts Grid Bias (Average)	48 m.a.
Optimum Load (for above conditions)	3,000 ohms
Bias Resistor .. .. .	.600 ohms

Should the filament be supplied from a D.C. source the bias values should be decreased by 2 volts, the H.T. and Grid Bias returns being made to the negative L.T.

