EDISWAN

ES.U.75

Half-Wave Rectifier Valve

RATING.

Filament Volts	2 volts.
Filament Current	8 amps.
Maximum Inverse Volts	3,000 volts.
Maximum Peak Anode Current	900 milliamps.
Cathode Heating Time (Approx.)	30 sec.

PRICE **£3**

GENERAL.

The Ediswan ES.U.75 is a half-wave rectifier of the hot cathode, mercury vapour type. Owing to the ionisation of mercury vapour the rectifier will handle a large current without excessive loss of power, the internal impedance being very low under working conditions.

The Valve is fitted with a large Edison Screw Base, Sockets for which can be supplied to order.

The voltage drop in the rectifier is of the order of 20 volts at all loads, which enables remarkably good regulation to be obtained. The valve is very suitable for supplying high tension current to output valves in Public Address Systems, Talking Film Equipment, and has been designed particularly to work in conjunction with the E.S.75 Power Amplifier.

Provided that the operating instructions overleaf are observed, the valve will have a long and useful life at high efficiency.

THE EDISON SWAN ELECTRIC CO. LTD.
Radio Division Showrooms :
155 Charing Cross Road, London, W.C.2
Showrooms in all the Principal Towns
Mazda Valves are manufactured in Great Britain for
The British Thomson-Houston Co., Ltd.,
London and Rugby

EDISWAN

R763-13

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OPERATION.

1. Standard smoothing circuits may be used with the valves, whether singly or in pairs for full-wave rectification. The latter arrangement is recommended as being more efficient. To limit the peak anode current and to avoid parasitic oscillation it is advisable to connect an H.F. choke or resistance in series with the anode of each valve.

2. To avoid the possibility of flash-back on reverse voltage, the temperature of the rectifier bulb should not be allowed to exceed 50 c. For this reason it is essential to provide good ventilation round the bulb.

3. The filament voltage should be 2.0 measured at the filament terminals and should not be allowed to fall below this value.

4. Unless this valve is operated on very light loads, it is essential to allow the filament to attain operating temperature several seconds before the H.T. is applied. Either manual or automatic delayed switching may be used, the Ediswan D.L.S.1 switch being recommended in the latter case.

5. The H.T. supply should be switched off before the filament supply.