

**EDISWAN****ESU15****HALF WAVE MERCURY VAPOUR RECTIFIER**

(Previously EHT15)

**REPLACEMENT TYPE**GENERAL

The ESU15 is a directly heated high voltage half wave rectifier of the mercury vapour type and must be operated in an inverted position.

RATING

Filament Voltage (volts)	$V_f$	4.0
Filament Current (amps)	$I_f$	15
Maximum Peak Inverse Anode Voltage (kV)	P.I.V.	20
Peak Anode Current (amps)	$I_a(pk)$	15
Maximum Mean Anode Current (amps)	$I_a(mean)$	3.0
Cathode Heating Delay (secs)		60
Maximum Condensed Mercury Temperature (°C)		60 ←

DIMENSIONS

Maximum Overall Length (mm)	425
Maximum Diameter (mm)	150

OPERATING NOTE

When operating the valve above 10 kV P.I.V. attention must be paid to the cooling of the valve as the condensed mercury temperature should be kept lower than the maximum temperature rating of the valve (i.e. 60°C). For maximum safety factor a condensed mercury temperature of 40°C is recommended.

*Indicates a change*

December 1958

INDUSTRIAL  
VALVE & CRT DIVISION

Issue 2/6

**SIEMENS EDISON SWAN LIMITED**

**ESU15**

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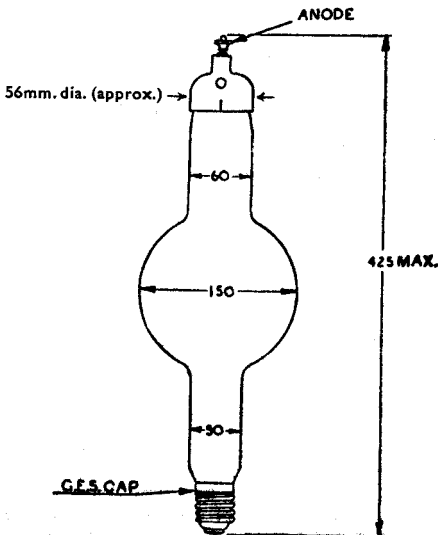
**REPLACEMENT TYPE**



## IMPORTANT NOTE

It is important that the cathode be allowed to attain full operating temperature before the H.T. voltage is applied to the Anode. When first placed into service, it is essential that the filament is run at its rated value for 15 mins. before applying H.T. to anode and thereafter a delay of at least a minute should elapse before the anode supply is switched on. When switching off, disconnect the H.T. supply before the cathode supply.

When rectifiers are kept as spares it is recommended that they be run under operating conditions at intervals of six months to ensure that they have suffered no deterioration through being kept in stock.



All Dimensions in mm.

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