

Hot Cathode Mercury Vapour Rectifier

2V/400A

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Oxide-coated filament, shielded		
Voltage	2.5	٧
Nominal current	5.0	Α

DIMENSIONS.

Maximum overall length	170	mm.
Maximum bulb diameter	66	mm.
Base—American medium 4 pin		
Net weight	125	g.

MAXIMUM RATINGS.

Maximum peak inverse voltage	10	kV
Maximum peak anode current	1.0	Α
Maximum average anode current	0.25	Α
Condensed mercury temperature rang (with forced ventilation)	ge 25°-65°C	

The above ratings apply to operation with a choke input filter and a supply frequency of 50 c/s.

MAXIMUM P.I.V. VOLTAGE RATINGS AND CONDENSED MERCURY TEMPERATURE

Natural ventilation	25°—55°C	20°C—40°C
Forced ventilation	25°—65°C	20°C60°C
Peak Inverse Voltage	up to 5kV	5kV to 10kV

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TYPICAL OPERATING CONDITIONS

Circuit No.	No. of valves	Maximum D.C. output voltage	Maximum D.C. output current
2	2	3.200V	0.5A
3	4	6.500V	0.5A
4	3	4.500V	0.75A
5	6	4.500V	1.5A
6	6	9.500V	0.75A

This rectifier being directly heated, it is recommended that the output circuit be returned to the mid-point of the filament transformer secondary.

CATHODE HEATING TIME.

Minimum pre-heating period 30 seconds. After shipment or transit the pre-heating period must not be less than 5 minutes before any anode voltage is applied, so that the mercury may be correctly distributed.

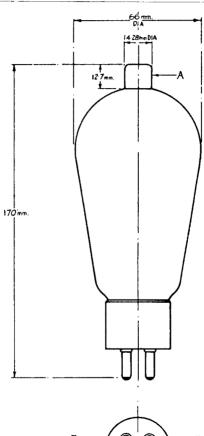
Temperature limits given under "Natural Ventilation" are only valid for unrestricted natural ventilation forced air blast being required for operation up to the maximum condensed mercury temperature limit.

NOTE.—Before putting a valve of this type into service it is recommended that reference be made to General Information Sheet K.



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