

FEDERAL TELEGRAPH CO.

Federal Type F-375-A Half Wave Rectifier
(Interchangeable with Type 575)

RATINGS AND DATA

Main Use	Half Wave Rectifier
No. of Electrodes	2
Filament Voltage	5 volts
Current	10 amperes
Type	Oxide Coated
Heating Time	45 seconds
Maximum Peak Current	2.5 amperes
Maximum Peak Inverse Voltage	12,500 volts
Overall Dimensions	
Maximum Length	10 1/2 inches
Minimum Length	10 inches
Maximum Diameter	3 3/4 inches
Type Base	Standard 50 Watt
Mounting	Standard 50 Watt
Type of Cooling	Air
Recommended Operating Ambient Temperature Range	0-50° C.

The above information by no means represents exact conditions of operation to be imposed for any particular situation. Tubes are used under many widely different conditions and consequently the manufacturer should be consulted for information regarding characteristics for design purposes.

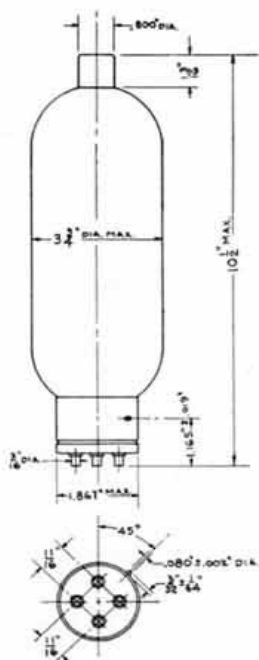
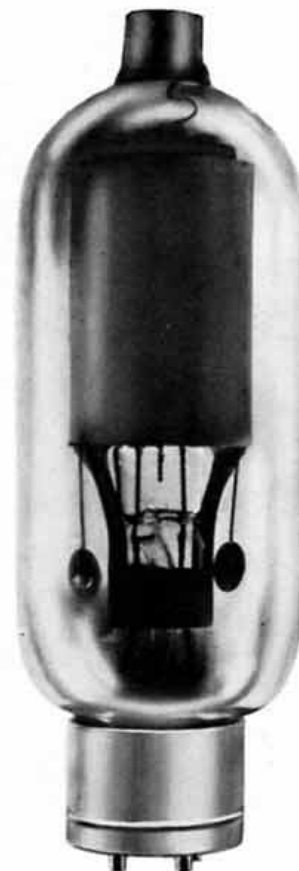


Fig. 1



The FEDERAL type F-375-A mercury vapor rectifier tube is not influenced by extraneous modulated or unmodulated R.F. fields because it is completely shielded. Blackening of the bulb which decreases operating efficiency is practically eliminated by the FEDERAL shielded construction.

A new filament core material insures permanency of the oxide coating and prevents flaking.

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200 Mt. Pleasant Ave.
Newark, N. J.

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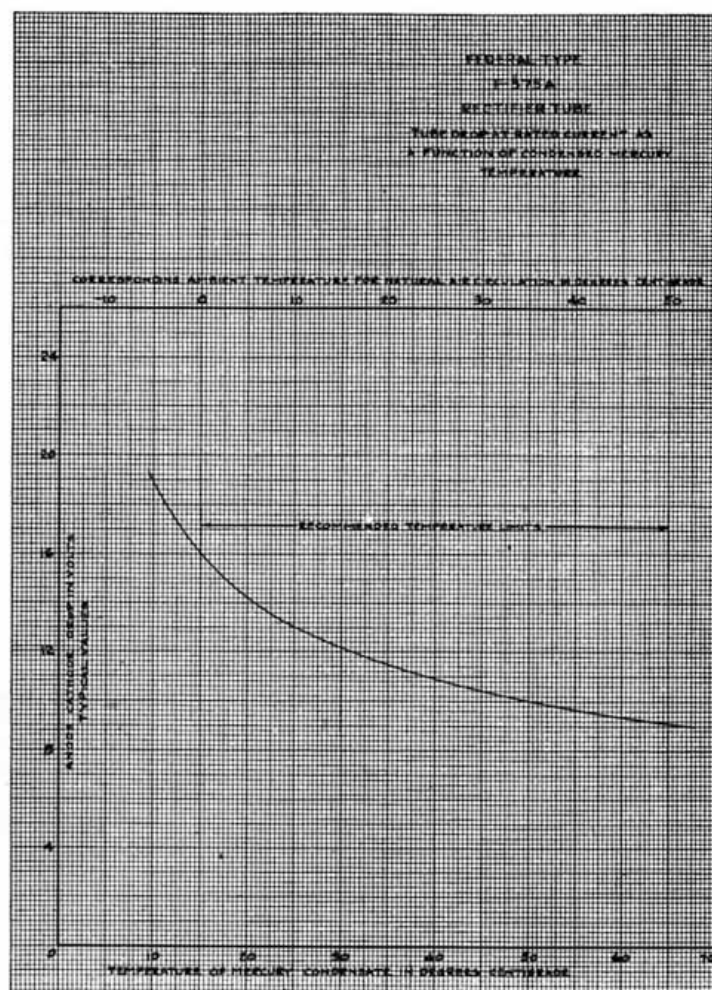


Fig. 2

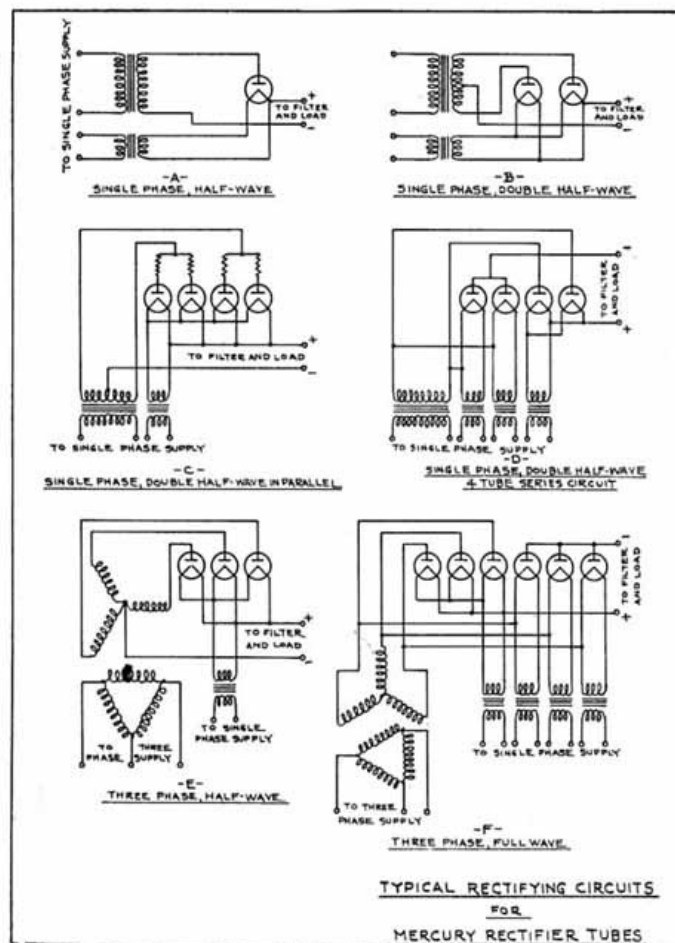


Fig. 3

Circuit	No. of Tube	Input Voltage R.M.S.	Approximate D.C. Volts	Output Amperes
A	1	9000 per tube	4000	0.8
B	2	4500 " "	4000	1.6
C	4	4500 " "	4000	3.2
D	4	9000 per 2 tubes	8000	1.6
E	3	5200 " leg	6000	2.0
F	6	5200 " "	12000	2.5

The above values are based upon ideal sine wave conditions. Any voltage drop in the filter must be subtracted from the D.C. output voltage given. Normal operating conditions must be determined for each individual installation.