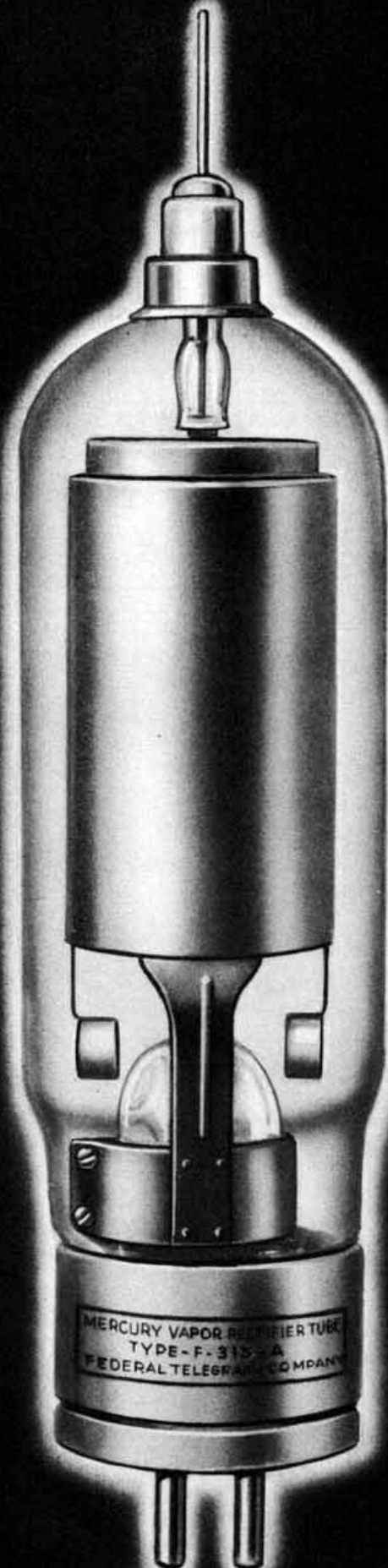


FEDERAL

F-315-A HALF WAVE RECTIFIER



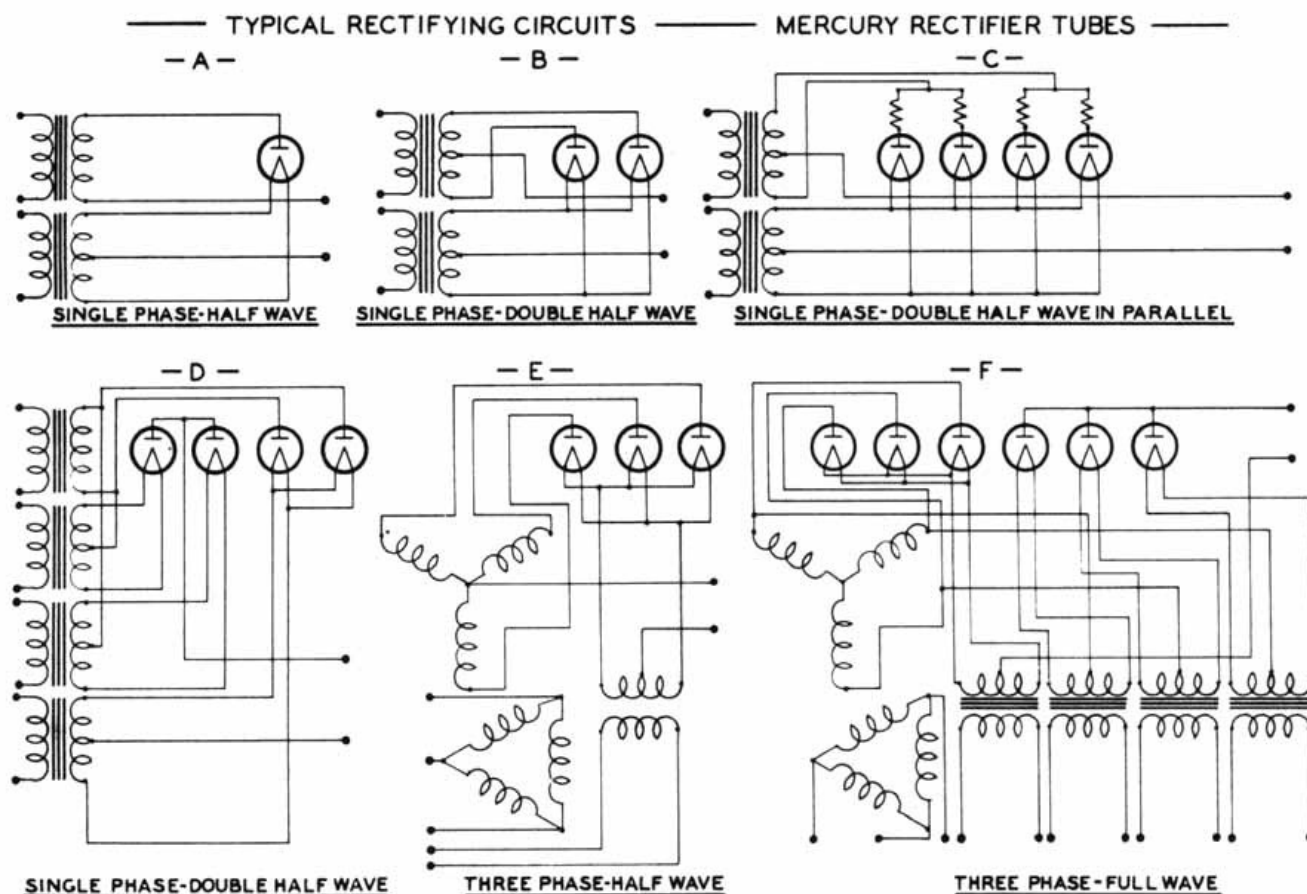
TECHNICAL DATA

No. of Electrodes	2
Filament Voltage	5 volts
Current	10 amperes
Heating Time	45 seconds
Maximum Average Current	1.75 amperes
Maximum Peak Current	7.0 amperes
Maximum Peak Inverse Voltage	12,500 volts— Ambient Temperature 15°—50°C. 5,000 volts Ambient Temperature 15°—60°C.
Overall Dimensions	
Maximum Length	12 $\frac{1}{4}$ inches
Minimum Length	12 inches
Maximum Diameter	3 inches
Type Base	Large two-pin thrust
Mounting	Standard
Recommended Operating Ambient Temperature Range	15°—60°C.

The information herein by no means represents exact conditions of operation to be imposed for any particular situation. Since tubes are used under many widely different conditions the manufacturer will gladly furnish information regarding characteristics for design purposes.

Manufactured by
FEDERAL TELEGRAPH CO.
200 Mt. Pleasant Avenue Newark, N. J., U.S.A.

F-315-A HALF WAVE RECTIFIER



Typical rectifying circuits in which Type F-315-A may be employed are illustrated above. The approximate D.C. output current and voltage for each type of rectifying circuit shown, when tubes are operated at maximum permissible space current and inverse voltages, are given in the following table:

Circuit	No. of Tubes	Input Voltage R.M.S.	Approx. D.C. Output	
			Volts	Amperes
A	1	9,000 per tube	4000	1.75
B	2	4,500 per tube	4000	3.5
C	4	4,500 per tube	4000	7.0
D	4	9,000 per 2 tubes	8000	3.5
E	3	5,200 per leg	6000	5.25
F	6	5,200 per leg	12000	5.25

The above values are for rectifiers working into filters the input inductance of which is sufficient to maintain the output current substantially constant. Pure sine waveform of the power source is assumed. Transformer regulation and voltage drops in tubes and filter are neglected.