Taylor CUSTOM BUILT Tubes

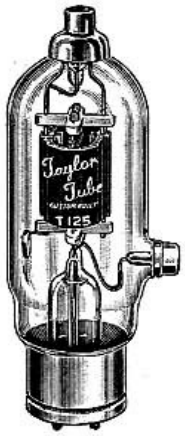
T-125

WITH ACCELERATING FINS
125 WATTS PLATE DISSIPATION
TRIODE

$13.50

TAYLOR T-124

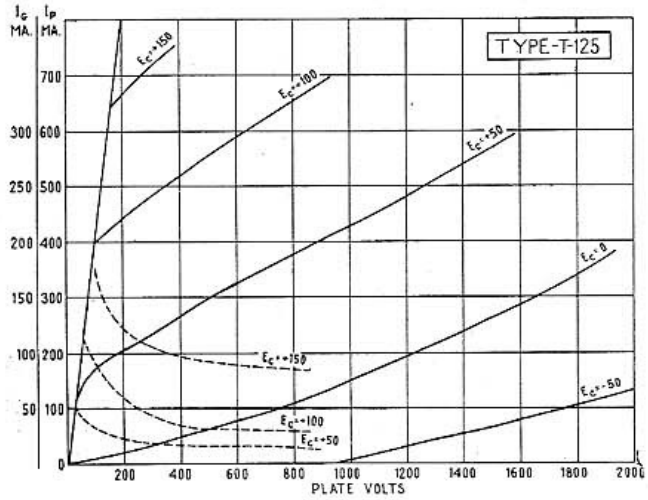
Identical specifications and characteristics as the T-125 except the amp. factor is 48.



The T125 is the tube amateurs demanded to fill the gap between the T55 and T200. It's a mansized tube at low cost and it **features a new TAYLOR invention (patent applied for)** making possible high efficiency at low plate voltages and with low inter-electrode capacities. Rated conservatively, one tube will handle a full 500 watts input at the maximum ratings of 2000 volts, 250MA. The interelectrode capacities are low, making possible efficient operation on even the highest amateur frequencies—but the use of **accelerating fins** increases the inherent efficiency of the tube, making it far more efficient than others with comparative interelectrode capacities. These fins projecting inward toward the grid and filament effectively produce the very desirable characteristics of higher C tubes without greatly increasing the capacities. Thus this tube is truly unique in that it possesses the **advantages of a low C tube together with the advantages of a higher C tube**—without the disadvantages of either. It is truly a remarkable tube and is a revolutionary step forward in tube design.

At the rated plate dissipation of 125 watts the carbon plate shows no color but the accelerating fins operate at a bright orange color. If the type of operation or input are not such as to result in excessive dissipation, color showing on the plate may be taken as a definite indication that the circuit is less efficient than it should be.

For some time there has been a need for a high frequency tube to replace tubes of the 203A type with the absolute minimum of changes in the transmitter. The T125 fills the needs in a most satisfactory manner. Because of the exclusive TAYLOR Accelerating Fins construction, efficiencies on the order of those obtained with 03A's are possible at the same plate voltages and with the same low grid drive requirements. In addition the plate dissipation is greater than that of an 03A and the plate current rating greater making it possible to increase the power at the same Plate voltage as well as gaining the advantages of low C tube operation at the higher frequencies. In order to replace an 03A type of tube with the T125 it will be necessary only to change the grid and plate connections and to re-neutralize. If the minimum capacity of the neutralizing condenser is too high, plates may be removed. No circuit or bias changes are necessary because the Mu of the T125 is the same as that of an 03A.



GENERAL CHARACTERISTICS

Filament Volts	10
Filament Current, amps	4.5
Plate Dissipation, watts	125
Amp. Factor	25

Overall Dimensions

Max. Length, Inches	8¼
Max. Diameter, Inches	3

Interelectrode Capacities

Grid-Plate, mmf	6.0
Grid-Filament, mmf	6.3
Plate-Filament, mmf	2.6
Nonex Glass	**50 watt base**

CLASS C TELEGRAPHY
Maximum Ratings

	C.C.S.	I.C.A.S.
D. C. Plate Volts	2000	2500
D. C. Plate Current	250	250
D. C. Grid Current	70	70
D. C. Grid Volts	—500	-500
Plate Dissipation, watts	125	125#

Typical Operating Conditions

		C.C.S.	I.C.A.S.	
D. C. Plate Volts	1500	2000	2000	2500
D. C. Plate Current	250	250	250	250
D. C. Grid Current	35	34	34	35
D. C. Grid Bias Volts	—125	—150	—150	—200
From Grid leak of, ohms	3600	4300	4300	5700
Plate Dissipation, watts	99	118	118	125#
Driving Power, watts	10	10	10	12.5
Peak AC Grid Volts	315	335	335	400

It is permissable to allow the plate dissipation to approach twice this value in telegraph service where key down condition exists approximately half the time.

CLASS C TELEPHONY
Maximum Ratings

	C.C.S.	I.C.A.S.
D. C. Plate Volts	1750	2000
D. C. Plate Current	210	250
D. C. Grid Current	70	70
D. C. Grid Volts	—500	—500
Plate Dissipation, watts	85	125

Typical Operation Conditions

	C.C.S.		I.C.A.S.	
D. C. Plate Volts	1500	1750	1500	2000
D. C. Plate Current	200	200	250	250
D. C. Grid Current	30	30	35	35
D. C. Grid Bias Volts	—150	—175	—165	—165
From Grid leak of, ohms	5000	5800	4700	4700
Or From { Fixed Supply of, volts	—60	—70	—60	—80
From { Plus Grid Leak of, ohms	3000	3500	3000	2500
Plate Dissipation, watts	70	78	94	120*
Driving Power, watts	8	9.5	11	12
Peak AC Grid Volts	315	345	360	380

* The intermittent nature of voice modulation permits the use of the full plate dissipation rating of the tube.