

JULY 1, 1940

WESTINGHOUSE INDUSTRIAL TUBES

INDUSTRIAL TUBE RATINGS

Tube Type Number	Plate Volts	Plate Milla.	Plate Diss. Watts	Max. Freq. Megacycles Full Input	Amp. Factor	No. of Electrodes	Fila. Volts	Fila. Amps.	Max. Length in Inches	Max. Dia. or Radius in Inches	Tech. Data Ref.
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PLIOTRON—ELECTROMETER TUBE

RH-507	4	0.2	0.8	3	2.0	0.06	5	1 $\frac{1}{8}$	TD-507
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PLIOTRONS—THERAPY OSCILLATOR TUBES

WL-469	1500	200	100	20	12	3	10	3.25	7 $\frac{1}{8}$	2 $\frac{1}{8}$	TD-60
WL-471	1500	200	100	20	12	3	10	3.25	8 $\frac{1}{8}$	1 $\frac{1}{4}$	TD-60
WL-195	3000	125	125	30	12	3	10	3.25	8 $\frac{1}{4}$	4 $\frac{1}{4}$ *	TD-60
WL-196	3000	125	125	30	35	3	10	3.25	8 $\frac{1}{4}$	4 $\frac{1}{4}$ *	TD-60
WL-468	2000	200	150	20	18	3	10	3.85	11	3 $\frac{1}{8}$	TD-60
WL-460	2500	200	150	50	18	3	10	3.85	11	2 $\frac{1}{8}$ *	TD-60
WL-463	2500	275	200	50	22	3	11	5.0	11 $\frac{1}{2}$	2 $\frac{1}{8}$ *	TD-60

THYRATRONS

Tube Type Number	Crest Inverse Volts	Average Amps.	Crest Anode Amps.	Gas	Control	Fila. Volts	Fila. Amps.	Max. Length in Inches	Max. Dia. or Radius in Inches	Tech. Data Ref.
WL-629	350	0.04	0.2	Inert	Neg.	2.5	2.6	4 $\frac{1}{2}$	1 $\frac{1}{8}$	TD-81
KU-636	350	0.1	0.4	Inert	Neg.	2.5	7.0	7	2 $\frac{1}{8}$	TD-81
KU-610	500	0.1	0.4	Inert	Pos.	2.5	6.5	6 $\frac{1}{2}$	2 $\frac{1}{8}$	TD-81
WL-631	1000	2.5	15.0	Merc.	Neg.	5.0	4.5	7 $\frac{1}{4}$	3 $\frac{1}{8}$	TD-79
WL-632	1000	2.5	15.0	Merc.	Neg.	5.0	4.5	7 $\frac{1}{4}$	2 $\frac{1}{8}$ *	TD-79
KU-676	1000	6.4	40.0	Merc.	Neg.	5.0	9.5	11 $\frac{1}{8}$	3 $\frac{1}{8}$	TD-79
KU-627	2500	.64	2.5	Merc.	Neg.	2.5	6.0	7	2 $\frac{1}{8}$	TD-79
KU-628	2500	2.0	8.0	Merc.	Neg.	5.0	11.5	9 $\frac{1}{4}$	3 $\frac{1}{4}$	TD-79
KU-634	7500	1.25	5.0	Merc.	Neg.	5.0	11.5	9	3 $\frac{1}{8}$	TD-79

GRID GLOW TUBE

KU-618	800	0.015	0.10	Inert	Pos.	Cold	Cathode	5 $\frac{1}{4}$	2 $\frac{1}{8}$	TD-81
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IGNITRONS—WATER-COOLED—WELDER SERVICE

Tube Type Number	Nominal RMS Anode Volts	Max. Crest Inverse Anode Volts	Nominal Average Anode Amps.	Max. Crest at Nominal Average	Max. Crest Anode Amps.	Average Anode Amps. at Max. Crest	Max. Averaging Time Seconds	Ignitor Volts Typical	Ignitor Amps. Typical	Max. Length Anode Lead Bent	Max. Diam. in Inches	Tech. Data Ref.
WL-654	550	900	22.4	510	1125	17	10.5	200	25	12''†	2 $\frac{1}{8}$ †	TD-80
WL-659	220	360	22.4	510	1125	17	10.5	100	25	12''†	2 $\frac{1}{8}$ †	TD-80
WL-652	550	900	40.0	700	2100	24	14.0	200	25	17''†	2 $\frac{1}{4}$ †	TD-80
WL-657	220	360	40.0	700	2100	24	14.0	100	25	17''†	2 $\frac{1}{4}$ †	TD-80
WL-651	550	900	125	1325	3975	75	8.5	200	25	18''†	4 $\frac{1}{4}$ †	TD-80
WL-656	220	360	125	1325	5300	50	17.0	100	25	18''†	4 $\frac{1}{4}$ †	TD-80
WL-655	550	900	400	2500	7500	240	5.0	200	25	23''†	5 $\frac{1}{8}$ †	TD-80
WL-658	220	360	400	2500	10000	160	10.0	100	25	23''†	5 $\frac{1}{8}$ †	TD-80

IGNITRONS—WATER-COOLED—RECTIFIER SERVICE

Tube Type Number	Nominal D-C. Volts Output	Crest Forward and Inverse Volts	Average Anode Amps.	Crest Anode Amps.	Ignitor Volts Typical	Max. Ignitor Amps.	Max. Length Anode and Lead Bent	Max. Diam. in Inches	Tech. Data Ref.
WL-653-A	{ 250 600	900	300	1800	150	40	23''†	5 $\frac{1}{8}$ †	TD-91
	{ 600 2100	225	1200	150	40				
WL-679	{ 250 600	900	150	900	150	40	19''†	4 $\frac{1}{4}$ †	TD-91
	{ 600 2100	100	600	150	40				

* Indicates radius.

† See Instructions for lead length, water jacket, and other mounting details.

‡ Allow 3 inches additional for inlet and outlet water connections, or for water jacket.

Westinghouse Lamp Division

Special Products Sales Department

Westinghouse Electric & Manufacturing Company

Bloomfield, N. J.

KENOTRONS—VACUUM RECTIFIER TUBES

Tube Type Number	Crest Inverse Volts	Average Anode Amps.	Crest Anode Amps.	Wave	Fila. Volts	Fila. Amps.	Max. Length in Inches	Max. Diam. in Inches	Tech. Data Ref.
RO-585	1500	.003	.005	Half	5.0	1.1	4 $\frac{3}{8}$	1 $\frac{1}{8}$	TD-585
WL-579	20000	.020	.10	Half	2.5	5.0	6 $\frac{3}{8}$	2 $\frac{1}{8}$	TD-579
WL-608	60000	.06	.20	Half	10	10	14 $\frac{3}{8}$	5 $\frac{1}{8}$	TD-65
WL-613	140000	.06	.20	Half	10	10	19 $\frac{3}{8}$	5 $\frac{1}{8}$	TD-65
WL-456	140000	.06	.20	Half	11	20	18 $\frac{1}{8}$	5 $\frac{1}{8}$	TD-65
WL-612	150000	.24	.75	Half	10	50	24 $\frac{3}{8}$	6 $\frac{1}{8}$	TD-65
WL-660	230000	.03	.10	Half	10	10	33	6 $\frac{1}{8}$	TD-65

PHANOTRONS—GAS RECTIFIER TUBES

Tube Type Number	Crest Inverse Volts	Average Anode Amps.	Crest Anode Amps.	Gas	Wave	Fila. Volts	Fila. Amps.	Max. Length in Inches	Max. Diam. in Inches	Tech. Data Ref.
WL-786	1500	30.0	150.	Mercury	Half	2.5	100.	19 $\frac{1}{2}$	4 $\frac{1}{2}$	TD-85
KI-666	750	0.5*	3.0	Inert	Full	2.5	6.4	7	2 $\frac{1}{2}$	TD-74
KI-664	750	1.25*	6.0	Inert	Full	2.5	13.5	8	3 $\frac{1}{2}$	TD-74
WL-669	1000	1.0*	3.1*	Mercury	Full	2.5	12.0	6	2 $\frac{1}{2}$	TD-74
WL-670	1000	3.0*	9.5	Mercury	Full	2.5	24.0	7 $\frac{1}{2}$	3 $\frac{1}{2}$	TD-74

PHOTOTUBES

Tube Type Number	Spectral Range	Typical Micro Amps. Per Lumen	Description	Cathode Surface Material	Maximum Anode Volts	Aperture Inches	Tech. Data Ref.
SR-50	Deep Red—Violet	15	Vacuum	Cs-O	500	1 $\frac{1}{8}$ x 1 $\frac{3}{8}$	TD-76
SR-53	Deep Red—Violet	25	Vacuum	Cs-O	500	1 $\frac{1}{8}$ x 1 $\frac{3}{8}$	TD-76
SK-60	Deep Red—Violet	60	Gas	Cs-O	90	1 $\frac{1}{8}$ x 1 $\frac{3}{8}$	TD-76
SK-63	Deep Red—Violet	125	Gas	Cs-O	90	1 $\frac{1}{8}$ x 1 $\frac{3}{8}$	TD-76
WL-734	Deep Red—Violet	15	Vacuum	Cs-O	500	1 $\frac{1}{8}$ x 1 $\frac{3}{8}$	TD-76
WL-735	Deep Red—Violet	60	Gas	Cs-O	90	1 $\frac{1}{8}$ x 1 $\frac{3}{8}$	TD-76
WL-770	Visible	0.75	Vacuum	Cs-Mg	500	1 $\frac{1}{8}$ diam.	TD-76
WL-767	2000—3200 Angs.	....	Vacuum	Titanium	500	1 $\frac{1}{8}$ x 1 $\frac{1}{4}$	TD-52
WL-773	2000—3700 Angs.	....	Vacuum	Thorium	500	1 $\frac{1}{8}$ x 1 $\frac{1}{4}$	TD-52
WL-775	2000—3000 Angs.	....	Vacuum	Tantalum	500	1 $\frac{1}{8}$ x 1 $\frac{1}{4}$	TD-52
WL-789	Below 2000 Angs.	....	Vacuum	Platinum	500	1 $\frac{1}{8}$ diam.	TD-52

MISCELLANEOUS INDUSTRIAL ELECTRONIC TUBES
REGULATOR AND BALLAST TUBES

Tube Type Number	Oper. Plate Volts	Oper. Plate Amps.	Description	No. of Electrodes	Fila. Volts	Fila. Amps.	Maximum Length in Inches	Maximum Diameter in Inches	Tech. Data Ref.
WL-706	109	0.325	Volt Regulator	2	Cold Cathode		8 $\frac{3}{4}$	2	TD-69
WL-896	See Fila.	.....	Ballast	1	5-8	.25	3 $\frac{3}{4}$	1 $\frac{1}{8}$	TD-71
WL-788	See Fila.	.....	Ballast	1	9-18	.25	2 $\frac{3}{4}$	1 $\frac{1}{8}$	TD-71

PIRANI—PRESSURE INDICATING TUBE

WL-762	Pirani Tube for Vacuum Measurements	1	1.0	0.1	7 $\frac{1}{2}$	1 $\frac{1}{8}$	TD-762
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SUPERVISORY CONTROL PROTECTOR TUBE

KX-642	230 and 115 V. A-C. Circuit Protection	3	Cold Cathode	5	2 $\frac{1}{8}$	TD-68
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* The plate current values are per anode, and double these figures can be obtained when using both anodes in a proper circuit.