

RICHARDSON ELECTRONICS

Dielectric Heating



RF Tubes for Dielectric Heating



Richardson Electronics is dedicated to supplying only quality products. You will not find a more dependable source for your RF oscillator tube needs.

You can also rely on Richardson Electronics for cross-referencing assistance. We can help you identify industry standard part numbers and technical support, so you select the most efficient replacement product for your application.

The following is a list of oscillator tubes typically found in dielectric heating generators which we carry in our extensive inventory.

GLASS TRIODES						
Part Number	Cooling	Output Power (kW)	Anode Dissipation (kW)	Amp Factor (μ)	Filament Voltage (μ)	Filament Current (A)
5866A / TB2.5 / 400	Air	0.30	0.15	25	6.3	5.8
5867A / TB3 / 750	Air	1.10	0.35	25	5.0	14.1
8078 / TB4 / 1500	Air	1.60	0.50	21	5.0	32.5
5868 / TB4 / 1250	Air	1.70	0.45	28	10.0	9.9
TB5 / 2500 / 7092	Air	2.70	0.80	22	6.3	32.5
TB5 / 2500A	Air	2.70	0.80	22	6.3	32.5
T1000-1	Air	2.80	1.00	20	8.5	26.0
T130-1	Air	0.50	0.15	25	5.0	4.6
T150-1	Air	0.74	0.20	25	12.0	4.0
T380-1	Air	1.10	0.38	28	5.0	15.0
T500-2	Air	1.60	0.45	28	10.0	10.0
T800-2	Air	2.50	0.75	22	6.3	32.5
T800-3	Air	2.80	0.85	22	6.3	32.5
T2000-1	Air	6.00	2.00	20	7.5	50.0
CERAMIC TRIODES						
6T58RA	Air	2.4	0.8	17	5.0	22
E3062E / 7T62RE	Air	3.4	1.5	25	6.3	32
7T84RB	Air	3.8	1.5	17	6.3	22
6623	Air	4	2.5	22	6.0	60
ITL2-1	Air	5	1.5	21	6.3	35
7753 / TBL6 / 4000A	Air	5	2.1	23	6.3	65
YD1150 / RS3005CL	Air	5	2.5	17	6.3	33
YD1150AFL / ITL3-1	Air	5	2.5	17	6.3	33
7T85RB	Air	5.1	2.5	21	6.3	35
7T69RB	Air	9	4.5	21	12.6	35
6961A	Air	9	6	32	12.6	33
7237A	Air	9	5	32	12.6	33
3CX2500F3 / 8251	Air	10	4	22	7.5	52
3CX2500H3	Air	10	4	20	7.5	52
WL23791 / TH150	Air	10	5.4	22	9.0	60
8161R / TH5-6	Air	10	4	20	7.5	52
8T30RA	Air	11	6	50	12	40
E3069	Air	11	5	21	12.6	35
E3170	Air	11	5	21	12.6	35
YD1160 / RS3010CL	Air	11	5	20	6.3	66

CERAMIC TRIODES

Part Number	Cooling	Output Power (kW)	Anode Dissipation (kW)	Amp Factor (μ)	Filament Voltage (μ)	Filament Current (A)
YD1160FL / ITL5-1	Air	11	5	20	6.3	66
8T85RB	Air	12	10	21	12.0	40
YD1162FL / ITK5-1	Air	12	5	20	6.3	66
8T64RB	Air	13	10	20	12.0	40
8734 / YD1173	Air	13	10	45	5.4	65
YU108 / 3CX4500F3	Air	14	6	22	7.0	78
YD1170 / 8666	Air	16	10	30	5.8	130
8T20RB	Air	18	10	21	12.0	40
RS3012CL	Air	18	10	35	6.0	64
3CX5000H3	Air	18.6	5	18	7.5	75
RS3020CL	Air	20	10	22	5.7	135
ITL9-1	Air	24	8	22	5.8	145
3CX10000H3	Air	24.5	10	20	7.5	99
YD1175 / 8952	Air	27	10	45	5.8	130
YD1174FL	Air	30	10	24	5.8	130
8T25RA	Air	31	15	20	8.0	110
RS3026CL	Air	32	15	20	7.0	115
RS3026CJ	Water	32	25	20	7.0	115
ITL12-1	Air	33	12	22	5.8	145
YD1180 / 8801	Air	33	15	33	7.0	175
8T87RB	Air	35	20	20	8.0	180
3CX15000H3	Air	41	15	20	6.3	160
ITL15-2	Air	45	17	25	7.2	180
YD1185 / 8935	Air	50	15	50	7.0	175
RS3040CJ	Water	60	35	20	8.0	185
RS3040CL	Air	60	25	20	8.0	185
ITK15-2	Water	63	20	25	7.2	180
3CX20000H3	Air	64	20	20	10.0	160
3CW40000H3	Water	70	40	20	10.0	160
ITL25-3	Air	75	30	20	9.0	180
6696A	Water	80	60	20	13.0	205
ITK25-1	Water	90	50	20	9.0	180
3CW45000H3	Water	120	45	20	10.0	160
RS3060CJ	Water	120	40	22	10.0	190
RS3060CL	Air	120	35	22	10.0	190
ITK30-2	Water	130	50	23	11.0	240
RS3080CJ	Water	130	60	19	11.0	205
YD1202/8752	Water	163	80	36	12.2	250
9T94A	Water	170	80	30	13.0	320
ITK60-2	Water	180	70	23	13.0	250
9T38 / 9T38A	Water	240	120	40	18.3	315
RS3150CJ	Water	240	100	22	15.0	255
YD1212 / 8680	Water	240	120	40	12.6	380
ITK120-2	Water	425	130	27	18.0	330
RS3300CJ	Water	450	150	35	16.0	425
YD1342 / 8918	Water	530	240	35	14.0	555

Richardson Electronics



For over 60 years, Richardson Electronics has been supplying power grid tubes to the dielectric heating industry. Our commitment to this industry is second to none. Not only do we supply the components you need, but we also make technical expertise available when you need it. It is going the extra mile that sets Richardson Electronics apart.

An extensive inventory of oscillator tubes is in stock and ready for immediate delivery from such leading manufacturers as:

Amperex



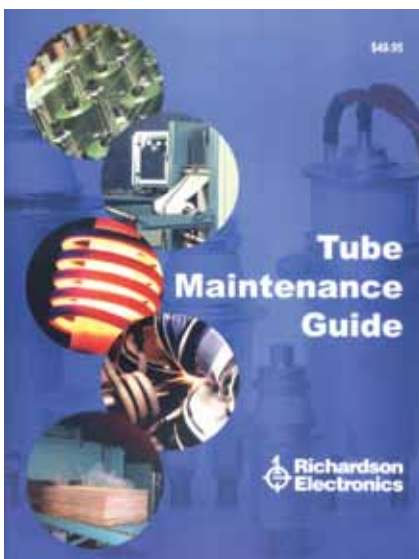
THALES

TOSHIBA

WHEN YOU NEED A REPLACEMENT TUBE, TURN TO THE INDUSTRY LEADER

RICHARDSON ELECTRONICS

Tube Maintenance Guide



Richardson Electronics is proud to offer a Tube Maintenance Guide to help our customers get more life out of their tubes and generators. In this document you will find information on:

- How to test tubes
- How to condition tubes
- Preventive maintenance for industrial generators, and
- Liquid Cooling Systems

This information can help tube users save thousands of dollars on existing tubes and generators.

Markets Served



High Frequency Heating

Plastic Welding

The bonding of plastic using RF is the industry standard for many applications including the manufacturing of:

- Inflatable Toys
- Medical Bags
- Shoes
- Truck Covers



Plastic Preheating

Richardson Electronics has the oscillator tube and associated components for your high frequency generator for such plastic preheating applications as:

- Semiconductor Packaging
- Melamine



Radio Frequency Drying

Textile Drying

High power radio frequency drying is the most efficient process for the removal of moisture from textiles. We have the correct replacement tube and capacitors for your Radio Frequency Dryer.



Wood Glue Drying

The wood industry has many applications which use RF tubes. RF can be used to remove the moisture from lumber and plywood, embossing, forming or laminating to fiberboard or for OSB and chip board curing.

The most popular application for the wood industry is to cure the glue used when combining multiple pieces of wood together to accelerate the drying time and increase production.



Food Drying

Using RF in the food industry has many advantages and can be used for various processes such as:

- Post Bake Moisture Removal
- Pasteurization/Sterilization
- Preheating or Precooking

High Voltage Capacitors



With over 80,000 capacitor and related units shipped annually, Richardson Electronics has demonstrated the ability to service our global customers' "high frequency, high voltage" needs. We complement our power tube and solid-state offerings with a wide selection of high voltage capacitors and related products.



Popular Types Include:

103-8200PF	CFC-200AS/30	CKT-250-0030	HY57Y500KA
3560/6	CFC-250AS/30	CVCD-3000-5S	PD70-300
4411/96139	CFD-450BS/45	CVHP-650-55S	PE100-600
804-2500PF	CFHP-450-55S	CVD-650BS/55	PE100-1600
847-33PF	CKT1-100-0025	DF30X90-1200	PE140-2000-10
860-3000PF	CKT-12-0035	DB30X88-1000PF	PE200-5000-20
CFC-25AS/35	CKT-25-0035	DB45X155-100PF	PEF-220-2500PF
CFC-50AS/35	CKT-50-0305	HPC60-2000	PS30-560-5
CFC-75AS/35	CKT-100-0035	HY57Y101KA	TOS16X10-16-10
CFC-100AS/35	CKT-150-0030	HY57Y201KA	
CFC-150AS/30	CKT-200-0030	HY57Y250KA	

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