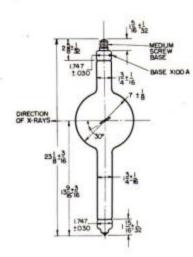


AIR INSULATED 150-200 KV LIGHT AND DEEP THERAPY X-RAY TUBES TYPES WL311 & 312

VOLTAGE RATINGS

	HALF OR	
TUBE	FULL WAVE	CONSTANT
TYPE	RECTIFIED	POTENTIAL
WL311	150 KVP	
WL312	200 KVP	200 KVP



APPLICATION

These tubes are designed for operation in open lead glass bowls or therapy shields of the conventional type.

SPECIFICATIONS

RATING DATA:

Ring type focal spots are used which cover a large part of the target area.

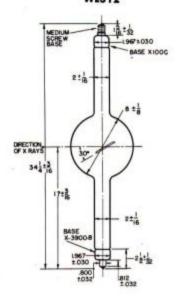
FILAMENT CHARACTERISTICS:

FOCAL SPOTS:

Filament currents range from 4.0 to 4.5 amperes and voltages from 5.0 to 6.5 volts.



WI312



WL312 DEEP THERAPY TUBE

	Milliamperes—Continuous				
	Without Blower		With Blower		
KVP	Pulsating	Constant Potential	Pulsating	Constant Potential	
200	8.0	6.4	10.0	8.0	
190	8.4	6.7	10.5	8.4	
180	8.8	7.0	11.0	8.8	
170	9.3	7.5	11.7	9.3	
160	10.0	8.0	12.5	10.0	
150	10.8	8.6	13.5	10.8	

Recommended starting and minimum voltage 140 KVP.

STARTING INSTRUCTIONS:

Initial application of energy should be at the recommended starting voltage and at low current values. The voltage and current should then be gradually increased to the desired operating conditions.

WL311 LIGHT THERAPY TUBE

KVP	Milliamperes—Continuous		
Pulsating	Without Blower	With Blower	
150	6.0	8.0	
125	7.2	9.6	
100	9.0	12.0	

Recommended starting and minimum voltage 100 KVP.

GENERAL DESIGN INFORMATION

BULB:

Bulbs are made of hard high transmission glass and are capable of withstanding a high degree of thermal shock.

ANODE:

The 30° angle targets are made of discs of Westinghouse tungsten and operate at high temperature. The large target of the deep therapy type has rolled edges to prevent warping.

ANODE COOLING

Targets are radiation cooled. Under rated operating conditions equilibrium is established between energy input and dissipation.