

PORTASPEC XBT TECHNICAL DATA

Bragg Angle Range	13 to 98 Degrees Two Theta	
Analyzing Crystal	Lithium Fluoride 200	
Element Range $K\alpha$	22-48 (Ti to Ag)	
Element Range $L\alpha$	56-92 (Ba to U)	
Collimators	20 Mil Divergent (Source) 10 Mil Receiving (Detector)	
X-Ray Source	X-Ray Tube, Tungsten Target, Beryllium Window	
X-Ray Tube Voltage	30 kV Constant Potential	
X-Ray Tube Voltage Regulation	$\pm 1\%$ for $\pm 10\%$ Line Voltage Variation	
X-Ray Tube Current	0 to 5 mA Adjustable	
Detector Tube	Sealed Proportional	
Detector Supply Voltage	2500 VDC Max. (Adjustable)	
Internal Digital Scaler and Timer	Counting Range: 1 to 999,999 Timer Range: 1 to 990 Seconds	
Controls	Power Switch	
Fuses	Line	4 Amp AGC
	Filament	2 Amp SB
	High Voltage	3 Amp SB
	5 Volt Supply	1 Amp AGC
Lamps	X-Ray On	
Voltage Requirements	115 Volts AC, 50 or 60 Hertz 230 Volts AC, 50 or 60 Hertz Single Phase, 300 Watts Line Regulation Required $\pm 5\%$	
Dimensions and Weight:		
Probe Head/Power Supply	18.50" L x 15.75" W x 12" H	70 lbs.
Optional MCR Power Conditioner	7" L x 8" W x 13" H	40 lbs.
