

PORTASPEC® XLE TECHNICAL DATA

Bragg Angle Range	13 to 98 Degrees Two Theta	
Analyzing Crystal	LiF 200, Ge, PET, or EDDT <i>(depending on element under analysis)</i>	
Element Range $K\alpha$	13 – 17 (Al – Cl) 19 – 21 (K – Sc) <i>(Single Element Option Only)</i>	
Element Range $L\alpha$	40 (Zr)	
Collimators	20 Mil Divergent (Source) 10 Mil Receiving (Detector)	
X-Ray Source	X-Ray Tube, Tungsten or Rhodium Target, Beryllium Window	
X-Ray Tube Voltage	10, 20 or 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 With PHA	
Controls	Power Switch	
Fuses	Line	6 Amp Fast
	High Voltage Supply	4 Amp Slow
	mA Board Supply	2 Amp Slow
	DC Supply	2 Amp Fast
	Vacuum Control	2 Amp Fast
	mA Trigger	1 Amp Fast
	Water Circulator	2 Amp Fast
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:		
Portaspec	18" L x 14" W x 13" H	50 lbs.
Vacuum Pump	13" L x 5" W x 11" H	30 lbs.
Water Circulator	14" L x 6-1/4" W x 12" H	10 lbs.
Optional MCR Power Conditioner	7" L x 8" W x 13" H	40 lbs.
