PORTASPEC® XLE TECHNICAL DATA

Bragg Angle Range	13 to 98 Degrees Two Theta
Analyzing Crystal	LiF 200, Ge, PET, or EDDT *(depending on element under analysis)*
Element Range K*α*	13 – 17 (Al – Cl) 19 – 21 (K – Sc) *(Single Element Option Only)*
Element Range L*α*	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	± 1% for ± 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 ± 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.