GNR OPTICA

ANALYTICAL INSTRUMENTS GROUP

APD 2000 PRO

POWDER X-RAY DIFFRACTOMETER



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Configurations	Theta/Theta geometry
Measuring circle radius	160 mm
Scanning angular range	- 5° < 2-Theta < + 160° (depends on accessories)
Angle positioning	Stepping motors with optical encoders
Angular accuracy	Better than ± 0.02° over the whole 2-Theta range
Angular resolution	< 0.04 2-Theta on LaB_6 (110) peak
X-ray generator	3 KW
Max. output voltage	60 kV
Max. output current	60 mA
X-ray tube	Glass (option ceramic), Cu anode (option: Co, Fe, Cr, Mo, W, Ag)
Focus	0.4x8 mm FF (Fine Focus) (options: 0.4x12 mm LFF; 1x10 mm NF)
Divergence Slit	Variable 0-4°
Scattering Slit	Variable 0-4°
Receiving Slit	0.1/20 mm
Interchangeable Soller Slits	2.3° (standard) (options: 1°, 2°, 4°)
Detectors	1D/2D detectors Silicon Drift Detectors (SDDs)
External dimensions	950 W x 789 D x 1952 H mm
Weight	350 Kg
Water cooling supply	Min. flow rate: 4l/min – Pressure 4 bar to 6 bar
Maximum power consumption (including water chiller)	10 kVA

