



D8 Advance

Bruker D8 Advance Eco for Multipurpose Solutions Diffractometer
 (1) Used Bruker D8 Advance Eco for multipurpose solutions diffractometer. Full-sized goniometer class powder XRD under ambient and non-ambient conditions.

**Bruker D8 Advance Eco
 SPECIFICATIONS:**

Technical Specifications
 General Diffraction System
 Tab. 1: Technical Specifications: General Diffraction System.

Mechanical Specifications	
Weight of complete system ready for operation (includes: generator, cooling unit, electronics, goniometer with standard sample stage, X-ray source, X-ray optics, scintillation detector)	770 kg
Weight of the enclosure and cabinet without equipment (goniometer, sample stage, X-ray source, X-ray optics, detector)	620 kg
Area load per m2 of the floor (ready for operation, system standing on integrated casters: 66cm x 90cm)	1300 kg/m ²
Clearance of doors for transportation	86 cm (34")
Height (Cabinet and Enclosure ready for operation)	1868 mm (73,5")
Width (Cabinet and Enclosure ready for operation)	1300 mm (51,2")
Depth (Cabinet and Enclosure ready for operation)	1135 mm (44,7")
Space inside enclosure: Height	956 mm (37.6")
Space inside enclosure: Width	1014 mm (39.9")
Space inside enclosure: Depth	1037 mm (40.8")
Transport size on casters: Height	1300 mm (51.2")
Transport size on casters: Width	1868 mm (73.5")
Transport size on casters: Depth	854 mm (33.6")



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Environmental Specifications	
Temperature operation range	15 - 35°C, recommended temperature range 20°C - 28°C
Maximum temperature gradient	1.0°C per hour
Relative humidity	20%-80%, condensation not allowed
Atmospheric pressure	Diffraction system applicable at all terrestrial locations under atmospheric air pressure conditions
Cooling Water Requirements	
Minimum Flow Rate	3.6 l/min
Pressure of Cooling Water Supply	4 to 7.5 bar
Pressure of Cooling Water Discharge	Pressure-free
Operating Water Temperature	10 to 25° C, 15 to 20° C recommended (avoid condensation)
Diameter of Cooling Water Supply	1/2"
Water filter (water supply)	Mesh size 0.15 mm (100 mesh)

NOTE:
 Assuming a relative humidity of 80% and a room temperature of 30 °C the dew point is 26 °C, at a room temperature of 25 °C the dew point is 21 °C, respectively. In case the head of the tube housing has a temperature equal or lower than the dew point condensation will occur.

Guarantee:

Unless otherwise specified, every machine is offered with the standard **MDNA** (*MACHINERY DEALERS NATIONAL ASSOCIATION*) Return privilege to ensure your complete satisfaction. If the machine is un-satisfactory it may be returned to our warehouse, freight prepaid and in the original condition within 30 Days of shipment for a full refund less the cost of SPECIALIZED EQUIPMENT, NEW ITEMS AND RE-CERTIFICATION COSTS, When applicable. Care is taken to provide accurate specifications. However, Critical areas should be verified by Inspection.