**Macromolecular Crystallography Unit**

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**The Macromolecular Crystallography unit comprised of Micro-007 HF is tabletop rotating anode X-ray generator for protein crystallography. The unit is equipped with mar345 DTB image plate detector and Oxford Cryosystem suitable for modern X-ray structure work. The mar345 Image Plate Detector System offers the best choice for recording diffraction patterns of protein crystals.**

**Specifications:**

**Image plate detector:**

Plate Diameter: 345 mm

Usable detector area: 93.480 mm²

Diameter of scanned area: Software selectable: 180, 240, 300 or 345mm

Pixel size (selectable by software): 150 µm² or 100 µm²

**X-ray Generator:**

* Maximum power: 1.2 kW
* Voltage: 20 – 40 kV
* Current: 10 – 30 mA
* HV stability: ±0.015
* Available target: Cu Kα-1.5418Å
* X-ray window: 0.2 mm thick beryllium
* Filament: W, annealed and pre-aligned
* Focal spot size: φ = 70μm
* Beam size at sample: 100μm

**Accessories:**

* + Varimax – HF Confocal optical system.
  + Haskris refrigerated heat exchanger.
  + Oxford Cyrosystems Cryostream Unit (700 Series)
  + AD 51 dry air unit.
  + Lion drier unit.