

R806MLP

COLLIMATOR WITH SINGLE-LAYER SQUARE FIELD AND MULTI-LAYER ROUND FIELD FOR OPERATION WITH AN IMAGE INTENSIFIER. MOUNTING PLATE AT: 80 MM (3.14") FROM THE FOCUS.

Collimating unit with round- and square-fields and two filtering shutters, with cardiac contour for Cardiographic examinations. On request the system supplied with three filtering shutters, two with straight edges for vascular examinations and third a strip filter to compensate the lightness between patient legs.

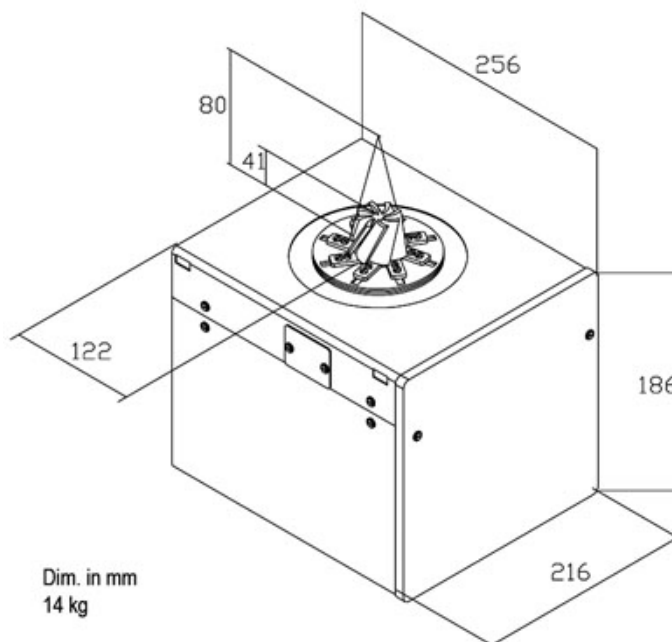
Two sets of shutters, iris arranged, collimate the round field. The first set, comprising eight bronze, cone-shaped shutters, is positioned into the x-ray tube port. The second set, comprising twelve lead shutters, is positioned by the collimator x-ray beam exit window.

The square field is defined by a single layer of lead-lined shutters placed half-way between the two set of round shutters. Optionally a Mylar mirror with a total of 0.3 mm aluminium equivalent may be supplied.

The filtering shutters are designed to filter the x-ray beam in order to avoid the luminosity areas and to reduce image dynamics in pulmonary area by attenuating x-ray intensity during angiocardiographic examinations.

The filtering Shutter movements are motorised and remote controlled only. They are controlled independently both in their horizontal displacement (covering 50% of the opening) and rotation (360°). The shutters are made with a 5 mm. aluminium support with the cutting-edge wedge-shaped (45°) and lined on both side with 0.2 mm of copper. The cardiac shutters are rounded to adapt to the cardiac contour while the vascular shutters are straight.

On the vascular shutters the top sheet of copper protrudes 5 mm. off the long side of the aluminium support while the bottom sheet of copper recedes 5 mm. from the short side of the support. The third filtering shutter (optional) is made of a strip of aluminium (2 mm thickness, 20 mm width), lined with a sheet of copper (1.2 mm thickness).



TECHNICAL FEATURES:

- Adjustment of mirror angulation.
- High luminosity provided by a quartz iodide lamp.
- Timer limiting projection lamp exposure time to 30 seconds thus extending lamp life and preventing overheating.
- Maximum protection against radiation leakage is at 150 kVp - 4mA.
- Projected fields:
FFD 80 cm - round from 8 to 43cm - square from 0 to 30x30 cm, $\pm 1\%$ FFD.
FFD 100 cm - round from 10 to 49 cm - square from 0 to 35x35 cm, $\pm 1\%$ FFD.
FFD 120 cm - round from 12 to 60 cm - square from 0 to 43x43 cm, $\pm 1\%$ FFD.
- Mounting flange in two parts. With this flange the collimator does not require re-calibration whenever it is dismantled from the unit.

AVAILABLE VERSIONS:

R806 MP - Motorised collimator without centring light

R806MLPF - Motorised collimator with filtering shutters, vascular and a stripe filter.

R806 MPF - Motorised collimator without centring light, with filtering shutters, vascular and a stripe filter.

OPTIONAL ITEMS:

RO 002 - Spacer, iron, 1,5 mm for mounting flange

RO 015 - Anticollision Device

RO 036 - Mylar mirror for inherent filtration of 0.3 mm. Al. Equivalent.

RO 085 - Guide spacers for ionisation chamber.

RO 131 - Focus-skin spacer.

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