ML03

X-ray Collimator

Description

ML03 is a manual X-ray collimator designed for use in Radiography. The modular design allows creating a configuration tailored to your specific needs. A prefilter unit, a laser line light localizer and a tape ruler are available as an option, as well as flanges for X-ray tubes from different manufacturers.

Features and customer benefits

- LED field light localizer for high brightness and extended lifetime
- Shutters close to the source reduce extra-focal radiation
- Colored scales for four different SIDs\(^1\) facilitate the proper setting of the X-ray fields
- Additional prefilters integrated for manual operation: 0.1, 0.2 and 0.3 mm Cu
- Rotation by ± 45° with a stop in 0° position by swiveling flange

### Technical Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (L x W x H)</td>
<td>351.5 mm x 238 mm x 217 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>8.8 kg ± 0.5 kg</td>
</tr>
<tr>
<td>Aperture angle</td>
<td>27° / 27°</td>
</tr>
<tr>
<td>Collimator rotation range</td>
<td>± 45°</td>
</tr>
<tr>
<td>Maximum field size</td>
<td>48 cm x 48 cm at SID(^1) = 100 cm</td>
</tr>
<tr>
<td>Minimum field size</td>
<td>3 cm x 3 cm at SID(^1) = 100 cm</td>
</tr>
<tr>
<td>Scales for different SIDs(^1)</td>
<td>SID(^1) = 100/115/150/180 cm or 40/45/59/72 inch</td>
</tr>
<tr>
<td>Min. brightness(^2)</td>
<td>≥ 230 Lux at SID(^3) = 100 cm</td>
</tr>
<tr>
<td>Additional prefilters</td>
<td>0.1/0.2/0.3 mm Cu</td>
</tr>
<tr>
<td>Inherent filtration</td>
<td>1.0 mm +0.25/-0 mm Al at 70 kV, option: 2 mm +0.35/-0 mm Al at 70 kV IEC60601-1-3</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 V ± 10% DC or AC 50 / 60 Hz</td>
</tr>
<tr>
<td>Leakage radiation</td>
<td>&lt; 0.5 mGy/h(^3) IEC60601-1-3</td>
</tr>
<tr>
<td>Laser line light localizer</td>
<td>Laser class 2 IEC 60825-1</td>
</tr>
</tbody>
</table>

1 SID = Source-Image-Distance
2 Min. brightness value for the LED field light localizer without external options like DAP meter
3 At 150 kV / 3 mA, at 1 m distance from tube assembly
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Creating values is our passion.
Efficiency is our nature.
Partnership is our way.
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Available options and material numbers

Color

- Signal White
  - (RAL 9003 Cover Unit 10911517)
- Med White
  - (C610 Cover Unit 10911518)

Adjustable prefiltering (0.1/0.2/0.3 mm Cu)

Front panel:
- cm or inch

- Manual prefilter
  - (Pre-Filter Unit 10911295)

- Front panel cm
  - (RAL 9003 Front Panel assm CM W/ Filter 10911521)
- Front panel inch
  - (RAL 9003 Front Panel assm Inch W/ Filter 10911522)
- Front panel cm
  - (RAL 9003 Front Panel assm CM WO filter 10911519)
- Front panel inch
  - (RAL 9003 Front Panel assm Inch WO filter 10911520)

Adjustable prefiltering (0.1/0.2/0.3 mm Cu)

Front panel:
- cm or inch

- Manual prefilter
  - (Pre-Filter Unit 10911295)

- Front panel cm
  - (C610 Front Panel assm CM W/ Filter 10911268)
- Front panel inch
  - (C610 Front Panel assm Inch W/ Filter 10911468)
- Front panel cm
  - (C610 Front Panel assm CM WO filter 10911469)
- Front panel inch
  - (C610 Front Panel assm Inch WO filter 10911470)

see next page
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X-ray Collimator

Available options and material numbers

Additional inherent filtration
- For in total 2 mm Al filtration at 70 kV
  (1 mm AL filtration 10911546)

Alignment of the X-ray beam center
- Laser line light localizer
  (Laser Unit 3099892)

Reduction of off-focal radiation
- Off-focal blades
  (Focal Blade Unit 7736759)
- Off-focal cone
  (Lead Cone 10911551)

Precise setting of the SID
- Measuring tape
  (Tape Ruler 10911300)

Adaptation to different tube makes (Flanges)
- Siemens, Kailong, Toshiba 53
  (Siemens / Kailong / Toshiba 53 Tube Flange 10911472)
- Toshiba 56
  (Toshiba 56 Tube Flange 10911473)
- Toshiba 60
  (Toshiba 60 Tube Flange 10911547)
- Varian
  (Varian Tube Flange 10911471)
- IAE
  (IAE Tube Flange 10645089)

Certification
- DHHS and UL
  (DHHS / UL 10911475)

Warranty extension
- to 39 months
  (24 Month extended Warranty 10911478)
- to 27 months
  (12 Month extended Warranty 10911477)

End
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