



Collimators for Radiography and Fluoroscopy

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Features and benefits

Siemens Healthineers Collimators for Radiography and Fluoroscopy

Product description

The purpose of the collimator is to limit the radiation beam emerging from the X-ray tube assembly onto the size of the object to be displayed.

Collimation can be set manually with the aid of the field light localizer (depending on configuration) or remote-controlled by automatic format collimation system.

- A laser line localizer is available for centering the bucky (depending on configuration).
- For optimizing the image and radiation quality, three different Cu-filter can be selected.
- Fast coupling tube flange adapter for easy installation.



Options and accessories

The collimator has interfaces for DAP chamber and accessories.

Customizing

To fulfill your particular requirements, we offer a customized housing and user interface.

Technical data

	RFU-L	RFU-B
Part number	11491002	11491051
Collimation		
Minimum field size	3 × 3 cm @ SID 100 cm*	
Maximum field size	45 × 45 cm @ SID 100 cm*	
Prefilter type	0, 0.1, 0.2, 0.3 mm Cu, motor-driven	
Light localizer		
Brightness	> 200 lx	No light localizer
Contrast	> 4.5	
Radiation field – light field tolerance	< 0.6% of SID*	
Bucky light line	Laser	
Light on time	Adjustable via CAN, default 90 sec	

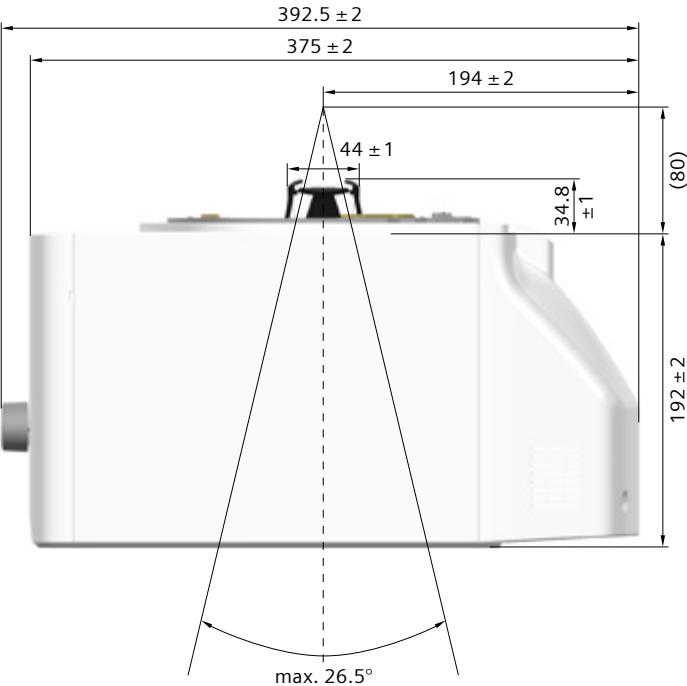
* At source-flange distance of 80 mm

	RFU-L	RFU-B
Radiological properties		
Inherent filtration	≥ 1.0 mm Al at 75 kV	≥ 0.5 mm Al at 75 kV
Radiation shielding	150 kV	
Leakage radiation	< 0.5 mGy/h (at 150 kV/3mA, at 1 m distance from focal spot)	
Electrical interface		
Collimator power supply	24 Vdc (± 10%), max. 2.5 A	
CAN interface & DAP chamber power supply	24 Vdc (± 10%), max. 400 mA	
Data interface	CANopen DS412	
Measurement tape	Digital read-out	No tape
Mechanical interfaces		
Flange to tube assembly	Diameter: 136 mm, thickness: 2 mm	
Source flange distance	80 mm	
Accessory rails	2 rails with width = 178 mm, length = 178 mm, height of the guide = 2 mm	No accessory rail available
Quality standards	NRTL, DHHS	
Weight	< 12 kg	
Ambient conditions		
Transport:		
Temperature	– 40 to 70 °C	
Relative humidity	10 to 95%, no condensation	
Operating:		
Temperature	10 to 35 °C	
Relative humidity	15 to 75%, no condensation	
Service	Maintenance-free	

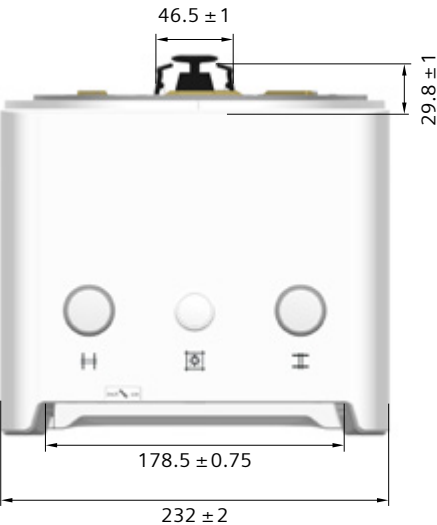
Dimensions

Model RFU-L (Overtable) with standard covers

Side view

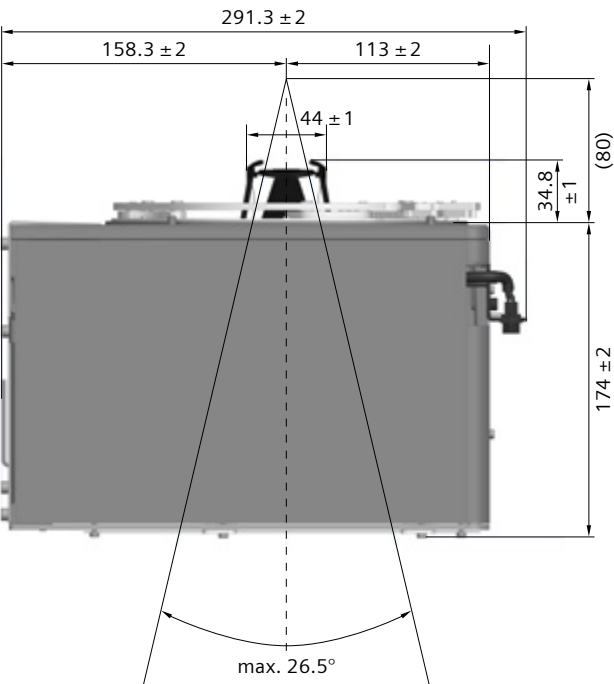


Front view

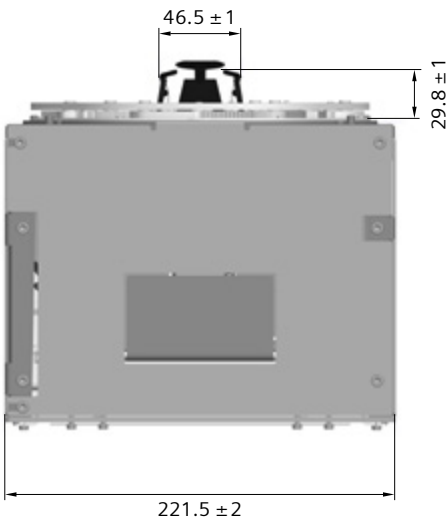


Model RFU-B (Undertable)

Side view



Front view



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Siemens Healthineers Headquarters

Siemens Healthineers AG
Siemensstr. 3
91301 Forchheim, Germany
Phone: +49 9191 18-0
siemens-healthineers.com

Manufacturer

Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany

Local Contact Information

Siemens Healthineers AG
Technology Centers
Power & Vacuum Products
An der Laende 3–9
91301 Forchheim, Germany
oem.func@siemens-healthineers.com
oem-products.siemens-healthineers.com

Publisher for USA

Siemens Medical Solutions USA, Inc.
40 Liberty Boulevard
Malvern, PA 19355
United States of America