Collimators for Cardiology and Angiography

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SIEMENS Healthineers

Features and benefits

Siemens Healthineers
Collimators for Cardiology and Angiography

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.

- All collimator parameters can be set remote controlled.
- Rectangular format can be adjusted in a wide range and is endless rotatable.
- For image quality optimization, semitransparent wedge filter(s) can be set and free positioned (1 at MFD, 3 at LFD)
- For optimizing radiation quality, five different Cu-filter can be selected.
- Integrated collision detection ensures safe workflow even at very close object distances.
- Optimized outer shape for steep angulations.
- Internal collimator rotation avoids any punching risk and enables perfect hygienic design.
- The collimators have an interface for DAP chamber.

Technical data

	MFD	LFD
Collimation		
Minimum field size [mm]*	≤ 38 × 38	≤ 38 × 38
Maximum field size [mm]*	335 × 335	400 × 400
Position accuracy	< 0.35% of the SID	< 0.35% of the SID
Collimation rotation [°]	360 (endless)	360 (endless)
Rotation speed [°/s]	25	25
Additional filtration		
Available filters [mm]	0.8Al – 0.1Cu – 0.2Cu – 0.3Cu – 0.6Cu – 0.9Cu	0.8Al – 0.1Cu – 0.2Cu – 0.3Cu – 0.6Cu – 0.9Cu

** SID = 100 cm, SFD = 80 mm*

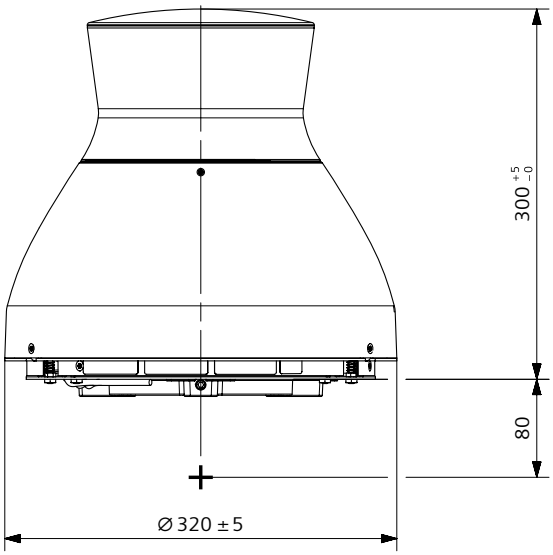
	MFD	LFD
Semitransparent wedge filter		
Number of filter blades	1	3
Rotation [°]	360 (endless)	360 (endless)
Translation [mm]*	>335 × 335	>400 × 400
Wedge shape	Symmetric wedge	1 symmetric wedge, 2 asymmetric wedges
Radiological properties		
Inherent filtration	≤0.4 mm Al / 75 kV	≤0.4 mm Al / 75 kV
Leakage radiation	<0.5 mGy/h (at 125 kV / 28 mA)	<0.65 mGy/h (at 125 kV / 28 mA)
Radiation shielding	125 kV	
Mechanical interfaces		
Flange to tube assembly	Diameter: 136 mm, thickness: 2 mm (LFD: with additional adapter)	
Source flange distance	80 mm	
Collision detection	Uniaxial	Multiaxial
Electrical interface		
Power supply VDC input voltage [V]	$24^{+20\%}_{-15\%}$	$24^{+20\%}_{-15\%}$
Max. VDC input current [A]	3.0	4.3
Data interface	CANopen DS402	
Weight of unit [kg]	11 ± 2	≤16.9
Dimensions (L × W × H) [mm]	320 × 320 × 234 (with small spacer)	402 × 402 × 220 (with small spacer)
Quality standards	NRTL, DHHS	
Ambient conditions		
Transport		
Temperature	–40 °C to +70 °C	
Relative humidity	10% to 95%	
Operating		
Temperature	+10 °C to +40 °C	
Relative humidity	20% to 75%	
Barometric pressure	700 hPa to 1060 hPa	
Service	Maintenance-free	

** SID = 100 cm, SFD = 80 mm*

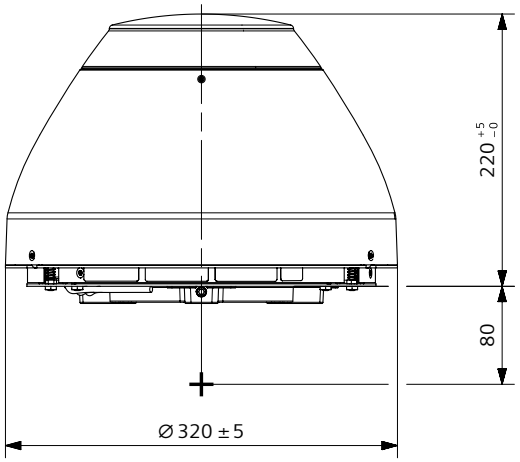
Dimensions

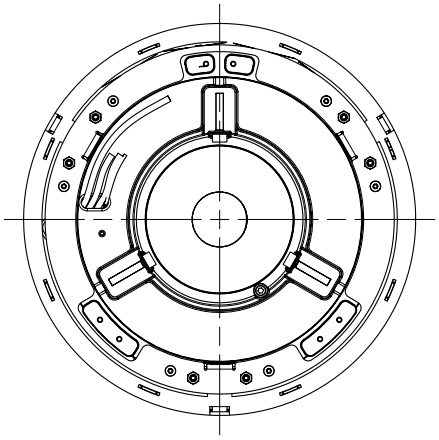
Model MFD

With Spacer 380



With Spacer 300

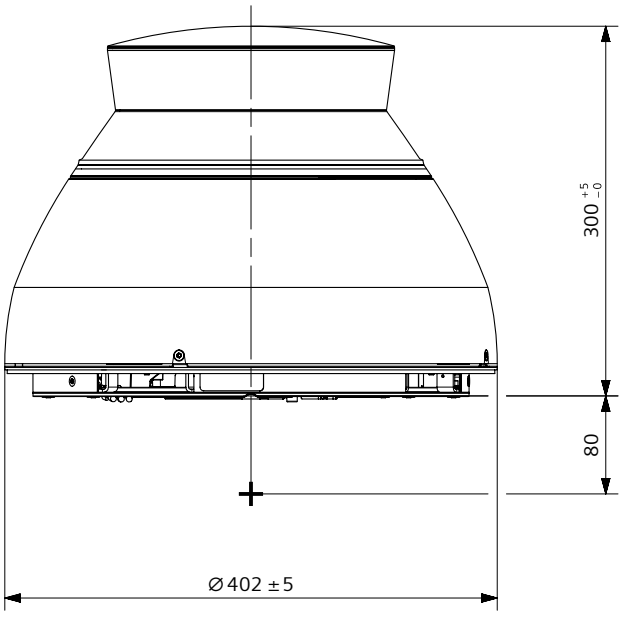




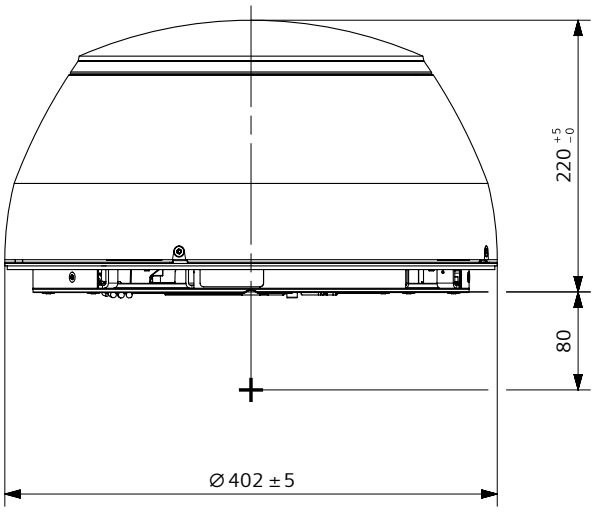
Dimensions are given in mm.
All dimensions are approximate.

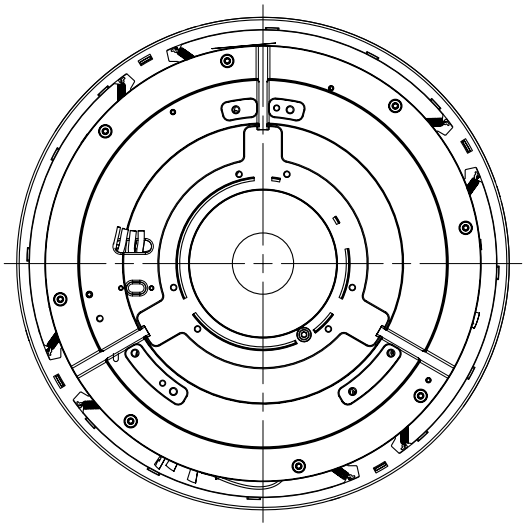
Model LFD

With Spacer 380



With Spacer 300





Dimensions are given in mm.
All dimensions are approximate.

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