



Product Data Digital mammographic equipment

MILADY DG is a complete digital mammography system optimized for 2D image acquisition, fully upgradable to any digital method: tomosynthesis and dual energy (predisposed for a future implementation). It can be completed with a wide range of accessories including the device for stereotactic and tomoguided biopsies. It is composed of mammography unit with isocentric C-arm, integrated high voltage generator, biangular X-ray tube, full field digital detector equipment and integrated or separate Acquisition Work Station (AWS).

X-RAY HIGH-VOLTAGE GENERATOR

Line voltage compensation	Automatic: H.V. generator with kV closed loop and line feed forward compensation
Inverter technology	Current fed, Mosfet bridge with output current limit capability and short circuit protection
Inverter frequency	50 kHz
Ripple frequency/amplitude	100 kHz < 2 %
Generator output power	7.4 kW (@ 37 kV)
kV range	Standard: 20 ÷ 35 kV
	Optional: 20 ÷ 49 kV
kV resolution (all modalities)	0.5 kV
kV precision	±1%
kV repeatability	± 0.1 %
kV risetime	≤ 1.5 ms from 0 to 100 %
kV display	XX,X kV (3 digits)
Lowest current time product (IEC 60601-2-45:201.7.9.2.1.f)	1 mAs
mAs maximum value	640 mAs (allowed)
mAs resolution (automatic)	0.1 mAs
mAs values	In accordance with R'20 series (Note: values rounded down on the base of standards tolerance and series limited to 640 mAs)
mAs display	XXX,X mAs (4 digits)
Exposure time range	0.02 ÷ 4.7 s (640 mAs @ 135 mA) Automatically selected in function of selected mAs
Safety timer	10 s







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X-RAY TUBE - IAE XM1016T

Anode rotation speed	3000 r.p.m. @ 50 Hz 10000 r.p.m. @ 50 Hz (optional)
Target material	Tungsten
	Focal track: RT (Tungsten + Rhenium) Bulk: TZM (Molibdenum + Titanium + Zirconium)
Anode heat storage capacity	300 kHU (225 kJ)
Maximum anode heat dissipation rate	60 kHU/min (750 W)
X-ray tube assembly heat storage capacity	500 kHU (375 kJ)
X-ray tube assembly heat dissipation rate	108 HU/s (80 W)
Cooling method	Free air convection
Anode disc target angle	10° (small focus) / 16° (large focus)
Anode disc diameter	80 mm
Focal spots	2
Focal spot size according to IEC 336	0.1x0.1 mm (small focus) / 0.3x0.3 mm (large focus)
Power (nominal anode input power)	1400 W (small focus) / 5600 W (large focus) (3000 r.p.m.) 2400 W (small focus) / 9600 W (large focus) (10000 r.p.m.)
Nominal X-ray tube voltage and highest X-ray tube current available at that voltage (IEC 60601-2-45:201.7.9.2.1.a)	Large focus 35 kV @ 90 mA (optional 40 kV @ 90 mA) (3000 r.p.m.) 35 kV @ 90 mA (optional 40 kV @ 90 mA) (10000 r.p.m.)
Highest X-ray tube current and highest X-ray tube voltage available at that current (IEC 60601-2-45:201.7.9.2.1.b)	Large focus 90 mA @ 35 kV (optional 90 mA @ 40 kV) (3000 r.p.m.) 90 mA @ 35 kV (optional 90 mA @ 40 kV) (10000 r.p.m.)
Corresponding combination of X-ray tube voltage and current which results in the highest electric output power (IEC 60601-2-45:201.7.9.2.1.c)	Large focus (3000 r.p.m.) 35 kV @ 90 mA = 3150 W (optional 40 kV @ 90 mA = 3600 W) Large focus (10000 r.p.m.) 35 kV @ 90 mA = 3150 W (optional 40 kV @ 90 mA = 3600 W)
Lowest current time product (IEC 60601-2-45:201.7.9.2.1.f)	1 mAs (for all kV values)
For mammographic X-Ray equipment provided with automatic exposure control controlling loading time, shortest loading time and/or the lowest resulting current time product (IEC 60601-2-45:201.7.9.2.1.h)	8 mAs (using 20 mm PMMA phantom)
X-ray window	0.5 mm Beryllium
Housing X-ray protection	≥ 0.5 mm Pb equivalent
Inherent filtration	0.0 mm Al (IEC 60522:1999-02)
HVL measured at 28 kV	> 0.5 mm Al eq.
Total filtration at 28 kV	> 0.5 mm Al
Tube assembly thermal overload protection	
With active temperature sensor under main CPU control	Upper limit temperature 65° outside tube assembly HU and °C display available in technical menu
Filters	
50 μm Rhodium (Rh)	0.51 mm Al eq. 28 kV (measured with Tungsten target)
50 μm Silver (Ag)	0.54 mm Al eq. 28 kV (measured with Tungsten target)
500 μm Aluminium (Al) (active only in tomo mode)	0.4 mm Al eq. 28 kV (measured with Tungsten target)
700 μm Aluminium (Al) (optional and active only in tomo mode)	0.51 mm Al eq. 28 kV (measured with Tungsten target)
300 μm Copper (Cu) (optional, predisposition for future Dual Energy implementation)	3.85 mm Al eq. 28 kV (measured with Tungsten target)







AUTOMATIC COLLIMATION DEVICE			
Туре	Automatic recognition of compression paddle format and position		
Light source	LED (Risk group 1 - Low risk - according to IEC 62471)		
Light beam	Switch ON by push-button or automatic when operating compression (selectable by service)		
	Electronic timer		
Light intensity	≥ 150 lux		
Light beam collimation accuracy	According to IEC 60601-2-45:203.8.5.4		
Mirror	With automatic out of field function		
Image formats	24x30 cm 18x24 cm 14x30 cm 12x30 cm 11x30 cm 10x24 cm 11x14 cm 9x13 cm 8x11 cm 7x7 cm 8x5/7x5 cm for biopsy Trapezoidal dynamic for tomo exam (optional)		
Protection of examination field	Protective screen to keep patient's face out of X-ray beam during 2D exam Extended protective screen to keep patient's face out of X-ray beam during tomo exam (optional)		







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DIGITAL FLAT PANEL DETECTOR - Option nr. 1   Model a-Si				
	Detector technology	(a-Si) TFT Array + Pin photodiode Amorphous Silicon		
	Case dimensions	35.9x34.6 cm		
	Top cover	Carbon fiber 0.1 mm Al equivalent		
	Chest gap	3.9 mm		
	Cooling method	Air + Fan (integrated)		
	Digitalization type	Logarithmic		
	Pixel dimension	85x85 μm		
	Pixel dimension in tomo reconstructed slices (with optional tomo upgrade kit)	85x85 μm (with any scan angle)		
	Pixel dimension in syntethic 2D images (with optional tomo upgrade kit and "M- VIEW/VI" software)	85x85 μm		
	Active area	23.9x30.5 cm (24x30 cm format)		
	Image matrix	2816x3584=10092544 pixels		
	Image depth	16 bit		
	Fill factor	80 % geometric		
	MTF (Modulation Transfer Function)	> 75 % @ 1 lp/mm > 10 % @ 5.8 lp/mm		
	DQE (Detector Quantum Efficiency)	> 45 % @ 1 lp/mm		
	for an exposure of 28 kV	> 10 % @ 5.8 lp/mm		
	Resolution	5.9 lp/mm (Nyquist)		
	Signal to Noise Ratio (SNR) (with 45 mm PMMA phantom)	15.19 (28.5 kV - 10 mAs)		
	Ghost image factor (point n° 2b.2.4.5 of "EUREF")	0.05		
	Tomosynthesis acquisition time (activated with optional tomo upgrade kit)	5 s (with 15° scan angle) 6 s (with 24° scan angle) 11.5 s (with 50° scan angle)		
	Reconstruction time from last exposure (breast thickness of 50 mm)	<15 s (in 2D mode) Tomo mode (all slices) (optional) 36 s (with 15° scan angle) 38 s (with 24° scan angle) 49 s (with 50° scan angle) Tomo mode (slab of 10 mm) (optional) 13.5 s (with 15° scan angle) 15.5 s (with 24° scan angle) 26.5 s (with 50° scan angle)		
	Time between two images acquired successively (breast thickness of 50 mm)	<15 s (in 2D mode) Tomo mode (optional) 36 s (with 15° scan angle) 38 s (with 24° scan angle) 49 s (with 50° scan angle)		







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DIGITAL FLAT PANEL DETECTOR - Option nr. 2 | Model a-Se

Detector technology	Amorphous Selenium (a-Se)		
Selenium thickness	200 μm		
Case dimensions	35.9x34.6 cm		
Top cover	Carbon fiber 0.1 mm Al equivalent		
Chest gap	3.9 mm		
Cooling method	Air + Fan (integrated)		
Digitalization type	Logarithmic		
Pixel dimension	85x85 μm		
Pixel dimension in tomo reconstructed slices (with optional tomo upgrade kit)	85x85 μm (with any scan angle)		
Pixel dimension in syntethic 2D images (with optional tomo upgrade kit and "M- VIEW/VI" software)	85x85 μm		
Active area	23.9x30.5 cm (24x30 cm format)		
Image matrix	2816x3584=10092544 pixels		
Image depth	16 bit		
Fill factor	88 % geometric		
MTF (Modulation Transfer Function)	> 90 % @ 1 lp/mm > 40 % @ 5.8 lp/mm		
DQE (Detector Quantum Efficiency)	> 50 % @ 1 lp/mm		
for an exposure of 28 kV	> 20 % @ 5.8 lp/mm		
Resolution	5.9 lp/mm (Nyquist)		
Signal to Noise Ratio (SNR) (with 45 mm PMMA phantom)	15.19 (28.5 kV - 10 mAs)		
Ghost image factor (point n° 2b.2.4.5 of "EUREF")	0.05		
Tomosynthesis acquisition time (activated with optional tomo upgrade kit)	With 15° scan angle: 2.5 s for a-Se F   10 s for a-Se S With 24° scan angle: 4 s for a-Se F   12 s for a-Se S With 50° scan angle: 7.7 s for a-Se F   30 s for a-Se S		
Reconstruction time from last exposure (breast thickness of 50 mm)	<15 s (in 2D mode) Tomo mode (all slices) (optional) 36 s (with 15° scan angle) 38 s (with 24° scan angle) 49 s (with 50° scan angle) Tomo mode (slab of 10 mm) (optional)		
	13.5 s (with 15° scan angle) 15.5 s (with 24° scan angle) 26.5 s (with 50° scan angle)		
Time between two images acquired successively (breast thickness of 50 mm)	<15 s (in 2D mode) Tomo mode (optional) 36 s (with 15° scan angle) 38 s (with 24° scan angle) 49 s (with 50° scan angle)		







"SensROI" A	UTOMATIC EXPOSURE CONTROL		
	Controlled parameters	Auto kV / Auto mAs (Zero Point Mode)	
		Manual kV / Auto mAs (One Point Mode)	
	Auto parameters selection criteria	Dual mode: PRE and FAST	
		PRE: tissue composition based (parameters evaluated by short X-Ray exposure)	
		FAST: compressed breast thickness based	
	Sensitive area (only for PRE mode)	Automatically selected in function of employed compression paddle	
	T-PROCESSING ALGORITHM		
POEL POS			
	Туре	Specific for mammography to optimize the quality of acquired images	
	Description	Processing of acquired RAW images and display in "For Presentation" format to enhance breast tissue structures and reduce the noise	
	Dedicated filters	For geometric magnification and in case of prosthesis, metallic clips, surgical markers, clusters of microcalcifications, breast specimens and surgical anatomical parts	
	Images compression format	JPEG LOSSLESS (JL) JPEG 2000 LOSSLESS (J2L)	
	Images saving/export format	DICOM FOR PROCESSING FFDM	
		DICOM FOR PROCESSING (only in tomo mode)	
OPTIONAL TOMOSYNTHESIS ACQUISITION			
	Number of X-ray exposures (projections with	11 (with 15° scan angle)	
	constant angle span)	13 (with 24° scan angle)	
		19 (with 50° scan angle)	
	Reconstruction method	Back-projection technique with incorporated iterative technique to improve image quality and remove artifacts	
	COMBO procedure	Function that allows a 2D + tomosynthesis acquisition with a single breast compression	
	Distance between reconstructed slices	1 mm	
	Tomo acquisition control	Push-button with spiral cable	
		Push-buttons on AWS (with AWS upgrade kit)	
		Foot-control (optional)	
OPTIONAL R	ECONSTRUCTION SOFTWARE OF SYNTHETIC	C VIEW FROM TOMO EXAM	
	Name	"M-VIEW/VI"	
GRID			
	Туре	Linear, vibrating	
	Interspace material	Carbon based polymer	
	Ratio	6:1	
	Lines/cm	36	
	Contrast factor	1.54	
GRID (suppl	ied with optional tomo upgrade kit)		
	Туре	Linear, vibrating	
	Interspace material	Graphite	
	Ratio	5:1	
	Lines/cm	102	
	Contrast factor	1.3	







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OPTIONAL DEVICE FOR GEOMETRIC MAGNIFICATIO	N
Туре	Gridless, interchangeable with Potter Bucky
Magnification ratio	x1.5 / x1.8 / x2
Small focus selection	Automatic once fitted
IMAGE QUALITY	
Spatial resolution	Conformity with "European Guidelines for Quality Assurance in mammography screening", 4 th edition and with "Recommended specifications" for Quality Assurance in mammography of American College of Radiology
DOSE CALCULATOR	
Method of calculation	Average Glandular Dose (AGD) according to "D.R. Dance et al."
Data visualization (mGy)	On Acquisition Work Station (AWS)
Method of recording	Image Header (DICOM)
AGD with a 4 cm PMMA phantom (2D)	1.40 mGy
AGD with a 4 cm PMMA phantom (TOMO) (with optional tomo upgrade kit)	At 15°: 1.60 mGy for a-Se   1.50 mGy for a-Si At 24°: 2.20 mGy for a-Se   2.20 mGy for a-Si At 50°: 2.30 mGy for a-Se   2.30 mGy for a-Si
Dose limits	According to European Protocol for Dosimetry and EUREF protocol
"Smart µPress" COMPRESSION SYSTEM	
Compression paddle movement	Motor driven or manual with fine adjustment
Standard compression paddles	24x30 cm for normal breasts
	18x24 cm with lateral shifting for small breasts
Optional compression paddles	<ul> <li>24x30 cm for tomo exams (with tomo upgrade kit)</li> <li>9x21 cm for magnification</li> <li>Ø 7,5 cm spot for magnification</li> <li>18x24 cm with Ø 7,5 cm spot for contact examination</li> <li>10x24 cm for axillary examination</li> <li>18x24 cm with holes for 2D biopsy</li> </ul>
Compression paddle holder	Fast mechanical unlock by rotating knob Right lock warning LED
Maximum free space available between compression plate and top cover of Po Bucky or magnification device	<ul> <li>182 mm with shifted compression paddles</li> <li>In magnification mode with specific compression paddle:</li> <li>183 mm @ 1.5x</li> <li>123 mm @ 1.8x</li> <li>83 mm @ 2x</li> </ul>
Compression force range	Adjustable from 70 to 200 N
Compression force displayed	Effective applied force with 1 N resolution
Compression thickness accuracy	±1 mm
Compression paddle descent speed	4 cm/s at the start, proportionally decreasing compressing the breast
Maximum compression force safety device	Triple: electronic, electro-mechanical, mechanical
Soft compression paddle release after exposure	Selectable from control panel
Compression paddle aluminium equivalence	$< 0.2 \text{ mm Al} (0.135 \text{ mm Al} \cong 30 \text{ kV})$
ROTATING CONTROLLERS FOR COMPRESSION WITH	FINE ADJUSTMENT
Number and type	Two rotating wheels with central push-button on both sides of C-Arm







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TOUCHSCREEN COLOR DISPLAYS	
Number and type	Two LED backlight touchscreens on both sides of C-Arm
Screen size (aspect ratio) and resolution	7" (4:3) - 640x480
Displayed parameters	Compression force, compressed breast thickness, patient name, projection angle, breast laterality, ACR code, collimation format, magnification factor
FOOT-CONTROLS	
	One with four nodels and one nuch button
Number and type	One with four pedals and one push-button Two with four pedals and one push-button (optional)
Control actions	Vertical movement of C-Arm
	Vertical movement of compression paddle
	Motor driven compression unlock
Protection degree according to IEC 529	IP X2
EMERGENCY STOPS	
Number and Type	Two red push-buttons on both sides of mammography unit
	One red push button on optional separate AWS
Function	To switch totally off the power of mammography unit except PC and logic interfaces (safety to close/save studies and switch off the unit)
ISOCENTRIC C-ARM	
F.D.D. (Focus Detector Distance)/S.I.D.	66 cm
Motorized movements	Rotation and vertical translation $\pm$ 15° Rotation (only with Bym 3D DMD)
C- Arm rotation range	± 180° (CW, CCW continuous to any position)
Rotation speed	20°/s with acceleration and deceleration ramp for smooth operation
C-Arm vertical range (Floor-Potter Bucky table)	54 ÷ 145 cm (travel of 91 cm)
Vertical movement speed	5 cm/s
Projection Preset positions	N° 5 programmable projections (LAT, OBL, CC, OBL, LAT)
Tomosynthesis scan angles (activated only	± 7,5° (15°)
with tomosynthesis upgrade kit)	± 12° (24°)
	± 25° (50°)
CONTROL SWITCHES	
Number and type	Three multiswitches (five push-buttons)
	Two on both sides of C-Arm and one on top of X-Ray tube cover
Control actions	Vertical movement of C-arm Continous rotation of C-arm
	Switch-on of collimation light
INTEGRATED ACQUISITION WORK STATION (AWS): PERS	-
Operating System	Windows 10 IoT Enterprise
CPU	Intel Core i5-6500 (Quad Core) 3.2 GHz
RAM	8 GB (16 GB with optional tomo upgrade kit)
HDD	128 GB SSD for Operating System, DMD Acquisition Software and DMD
	Toolkit Software (256 GB SSD optional)
	1 TB SATA for images storage ( $\cong$ 25.000 images) (2 TB SATA optional)
Pointing and selection device	Keyboard with integrated touchpad
CD/DVD recorder	24x
USB port	1 (3.1)
Power pack	250 W







INTEGRATED ACQUISITION WORK STATION (AWS): 2 MP	(STANDARD), 3 OR 5 MP (OPTIONAL) COLOR MONITOR		
Technology	TFT color LCD		
Screen size (aspect ratio) and resolution	24" (2 MP), 21.3" (3 MP), 21.3" (5 MP) 1920x1200 (2 MP), 2048x1536 (3 MP), 2800x2100 (5 MP)		
Viewing angle	178° (horizontal and vertical)		
Response time	7 ms (2 MP), 20 ms (3 MP), 12.5 ms (5 MP)		
Brightness	600 cd/m² max - 350 cd/m² DICOM calibrated (2 MP) 900 cd/m² max - 500 cd/m² DICOM calibrated (3 MP) 1000 cd/m² max - 500 cd/m² DICOM calibrated (5 MP)		
Contrast ratio	1000:1 typical (2 MP), 1400:1 typical (3 and 5 MP)		
SEPARATE ACQUISITION WORK STATION (AWS): PERSON	NAL COMPUTER (integrated in mammo unit)		
Operating System	Windows 10 IoT Enterprise		
СРИ	Intel Core i5-6500 (Quad Core) 3.2 GHz		
RAM	8 GB (16 GB with optional tomo upgrade kit)		
HDD	128 GB SSD for Operating System, DMD Acquisition Software and DMD Toolkit Software (256 GB SSD optional)		
	1 TB SATA for images storage ( $\cong$ 25.000 images) (2 TB SATA optional)		
Power pack	250 W		
SEPARATE ACQUISITION WORK STATION (AWS): CONSO	LE WITH TRANSPARENT ANTI-X PROTECTION BARRIER		
Pb equivalence	> 0,34 mm @ 35 kV/0,26 mm @ 49 kV (IEC 60601-2-45) (thickness of 20		
	mm)		
	> 0,5 mm up to 150 kV (optional) (thickness of 11 mm)		
Pointing and selection device	Keyboard and mouse or touchscreen on 15" color display		
CD/DVD recorder	24x		
USB port	1 (3.1)		
Dimensions	857x2003x640 mm		
Weight	90 kg (0.34 mm Pb eq) 56 kg (0.50 mm Pb eq)		
SEPARATE ACQUISITION WORK STATION (AWS): COLOR	DISPLAY (optionally available in touchscreen version)		
Technology	Active matrix TFT LCD		
Screen size (aspect ratio) and resolution	15" (4:3) - 1024x768		
Viewing angle	160° horizontal/150° vertical		
Brightness	300 nits		
Contrast ratio	800:1		
SEPARATE ACQUISITION WORK STATION (AWS): 2 MP (S	TANDARD), 3 OR 5 MP (OPTIONAL) COLOR MONITOR		
Technology	TFT color LCD		
Screen size (aspect ratio) and resolution	24" (2 MP), 21.3" (3 MP), 21.3" (5 MP) 1920x1200 (2 MP), 2048x1536 (3 MP), 2800x2100 (5 MP)		
Viewing angle	178° (horizontal and vertical)		
Response time	7 ms (2 MP), 20 ms (3 MP), 12.5 ms (5 MP)		
Brightness	600 cd/m ² max - 350 cd/m ² DICOM calibrated (2 MP) 900 cd/m ² max - 500 cd/m ² DICOM calibrated (3 MP) 1000 cd/m ² max - 500 cd/m ² DICOM calibrated (5 MP)		
Contrast ratio	1000:1 typical (2 MP), 1400:1 typical (3 and 5 MP)		







POWER SUPPLY REQUIREMENTS			
Line voltage	115/220/230/240 Vac ±10% 50/60 Hz		
Power	For 115/220/230/240 Vac:		
	Momentary: 85/45/43/41 A		
	Long-time: 2.5/1.3/1.2/1.2 A		
Number of phases	1 or 2 configurable		
Connection	Permanently installed (IEC 6		
Wall connection	20 A Thermal-magnetic circuit breaker		
	(40 A Thermal-magnetic circ	uit breaker in 115 V	/ac option)
Mains resistance	< 0.50 Ω		
CLASSIFICATION (IEC 60601-1)			
Protection against electric shock	Class I, with type B applied parts		
Applied parts	Potter Bucky/Biopsy Device carbon fiber		
	Compression paddles		
	Magnification device		
Protection degree according to IEC 529	IP X0 (Mammo Unit)		
Degree of safety in the presence of flammable	IP X2 (Foot-controls)		le anesthetics mixture with
anesthetics mixture with air or with	<ul> <li>Not suitable for use in the presence of flammable anesthetic air or with oxygen or with nitrous oxide</li> </ul>		sie anestnetics mixture with
oxygen or with nitrous oxide			
Mode of operation	Continuous operation with intermittent loading		
ENVIRONMENT PROTECTION AND WASTE DISPOSAL			
Disposal information	System contains in some of its parts and subassemblies, solid and liquid		
	substances that must be disposed only designated companies		
	according to local laws		
Tube assembly	Beryllium, glass, dielectric oil (PCB free), other metals and plastic		metals and plastic
H.V. transformer	Dielectric oil (PCB free), plastic, copper and other metals		er metals
Other subassemblies	Plastic, other metals, electronic components, glass, epoxy printed circuits,		
	amorphous selenium		
ENVIROMENTAL CONDITIONS			
Equipment	Transit/Delivery and	Operating with	Operating with
	Storage	a-Si detector	a-Se detector
Temperature	- 20 ÷ + 70 °C	+ 5 ÷ + 40 °C	+ 20 ÷ + 25 °C
Relative humidity	10 ÷ 90 %	30 ÷ 85 %	30 ÷ 75 %
Barometric pressure	500 ÷ 1060 hPa	540 ÷ 1060 hPa	540 ÷ 1060 hPa
a-Si Flat Panel Detector	Air transport Storage and delivery		Storage and delivery
Temperature	- 18 to + 70 °C (under 36	ih)	- 15 to + 65 °C
Relative humidity	10 to 85 %		10 to 85 %
Barometric pressure	540 to 1060 hPa		540 to 1060 hPa
a-Se Flat Panel Detector	Air transport		Storage and delivery
Temperature	- 20 to + 60 °C (24 h)		+ 5 to + 40 °C
Relative humidity	10 to 90 %		10 to 90 %
Barometric pressure	540 to 1060 hPa		540 to 1060 hPa
Detector maximum rate of temperature change	10° C in 20′		
Heat dissipated in max load condition of 35 kV 500 mAs (1 shot every 5 minutes)	316 kCal/h		

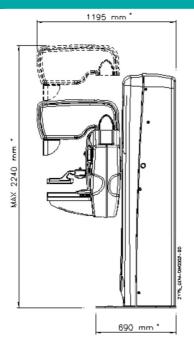


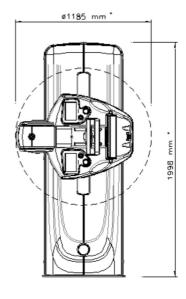


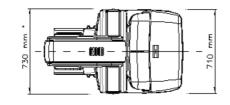


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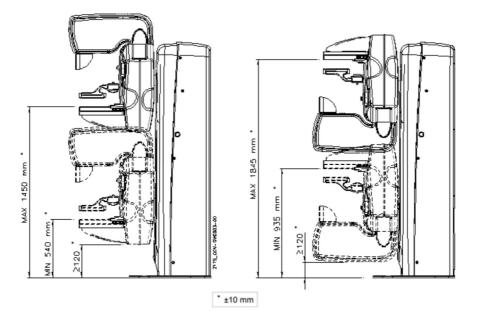
DIMENSIONS







* ±10 mm



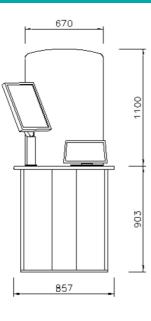




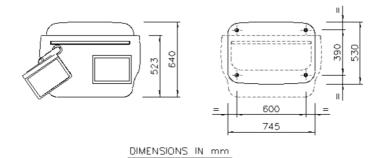


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