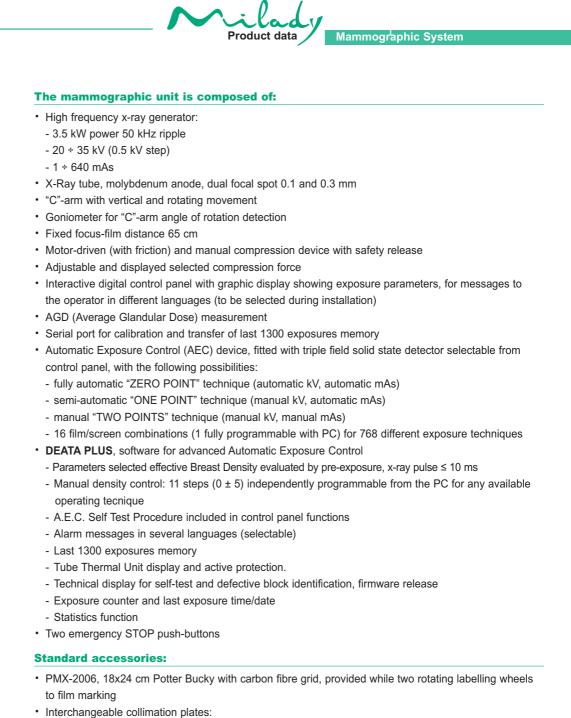


# Mammographic System



Technologically advanced mammographic system, offering the best quality/price ratio. Lightweight and easy-to-use, facilitating the operator's job. Excellent diagnostic image quality, similar to the top-of the line models, at a very competitive price. Possibility to store in the unit's memory, during the installation, the typical calibration curve for the available film processor, in order to obtain constant iconographic results independently of the examinated breast intrinsic density.





- 18x24 cm format
- Ø 14 cm format
- · 16x22 cm shifted compression paddle, for 18x24 cm format
- · 12x8 cm compression paddle with straight front side
- · One pair of compression pedals
- · X-ray control push-button with extensible cable
- · Device for 1.5x and 2x geometric magnification
- · Phantom for complete daily check of the mammographic system



Product data Mammographic System

## **TECHNICAL FEATURES**

	I ECHNICAL FLATORES	
H.V. GENERATOR	<ul> <li>Line voltage compensation</li> </ul>	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	25 kHz
	Ripple Frequency/Amplitude	50 kHz < 2%
	Nominal Power	3.5 kW
	• kV range	20 / 35 kV
	<ul> <li>kV resolution (Man &amp; Auto mode)</li> </ul>	0.5 kV
	<ul> <li>kV resolution (Man &amp; Auto mode)</li> <li>kV precision</li> </ul>	±1%
		± 0.1%
	• kV repeatability	
	• kV risetime	≤1.5 ms from 0 to100%
	• kV display	XX.X kV (3 digits)
	Anode current max	100 mA
	mAs range	Small focus: 1/200 mAs (from 20 to 30 kV)
		1/180 mAs (from 31 to 35 kV)
		Large focus: 1/640 mAs (from 20 to 30 kV) 1/500 mAs (from 31 to 35 kV)
	<ul> <li>mAs values according to R'20 series</li> </ul>	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 20, 25, 32,
		40, 50, 63, 80, 100, 130, 160, 180, 200, 250,
		320, 400, 500, 640
	mAs resolution (Automatic)	0.1 mAs
	• mAs display	XXX.X mAs (4 digits)
	Exposure Time	Automatically selected as a function of selected
		mAs (max. 8 s)
	Safety timer	10 s
		10.5
X-RAY TUBE ASSEMBLY	Anode rotation speed	3000 rpm 50 Hz
I.A.E. XM12I	Target material	Molybdenum
	<ul> <li>Maximum Anode Heat Content</li> </ul>	225 kJ (300 kHU)
	<ul> <li>Maximum Anode Cooling rate</li> </ul>	500 W
	Maximum X-Ray Tube Assembly Heat Content	320 kJ (440 kHU)
	<ul> <li>Housing continuous Heat Dissipation</li> </ul>	80 W (108 HU/s)
	Cooling method	free air convection
	Anode Disc Target Angle	12.5°
	Anode Disc Diameter	80 mm
	Power	4800 W large 1150 W small
	Focal spots	2
	Focal spot size according to IEC 336	0.1 small 0.3 large
	X-RAY Window	0.5 mm Beryllium
	Inherent filtration	0.0 mm Al IEC 522/1976
	Fix Filter (standard)	30 µm Molybdenum
	Automatic Filter FILTROMAMM (optional)	30 µm Molybdenum 30 µm Rhodium
	HVL measured at 28kV	>0.3 mm Al equiv.
	Total filtration	>0.5 mm Al equiv.
FILTER PROPERTIES	• 30 µm Molybdenum	0.38mm Aleq @ 28 kV, measured with Mo
	20 um Dhadium (antiac -1)	target and no additional filter
	• 30 µm Rhodium (optional)	0.62mm Aleq @ 28 kV, measured with Mo target and no additional filter
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Product data Mammographic System

	TECHNICAL FEATURES	
TUBE ASSEMBLY THERMAL	With active temperature sensor under	Upper limit temperature 65° outside tube
OVERLOAD PROTECTION	main CPU control	assembly. HU and °C display available in technical menu.
AUTOMATIC EXPOSURE CONTROL	Controlled parameters	Auto kV / Auto mAs (ZERO POINT)
(DEATA PLUS)		Manual kV / Auto mAs (ONE POINT)
· · · · ·	Auto parameters selection criteria	Selected as a function of effective BREAST
		DENSITY evaluated by preexposure x-ray pulse ≤ 10msec
	Auto kV range	Function of the selected technique
	-	(standard-extended-high contrast-low dose),
		the Anode/Filter coupling and the precise
		regulation + 0.5/+ 1/+ 1.5kV
	Manual density control	11steps 0 ± 5
		Programmable from PC independently for all
		the operative techniques available
	Film Screen combinations with Deata plus	16 film/screen programmable for 768
		independent calibration
	• Film Screen combinations with Reduced Deata	3 film/screen with manual programmable
		optical density
	O.D. linearity over 2 to 6 cm of Plexiglas	± 0.1 of O.D.
	Reference O.D.	Programmable during installation
	A.E.C. short time stability measured over	
	10 exposures taken at 28kV 50mAs	<3%
	Detector	PHTM 9000
		SOLID STATE (9 active sensors)
	Detector Positions	3 Electronically selected positions
	Detector saturation protection	Effective protection against erratic response
		due to detector saturation
	Test Phantom	3x2cm + 1cm + 0.5cm of Plexiglas
	Exposition Break	for calibration and daily self test procedure For breast density exceeding max value
		programmed during calibration with a dose
		< 1mAs
	A.E.C. Self Test Procedure	Included in control panel functions
	Average glandular dose measured in ACR	
	method: 4.5 cm phantom of 50% glandular	
	tissue and 50% adipose tissue exposure taken	
	with 28 kV	< 3mGy
IMAGE QUALITY	Spatial resolution	Complying with:
	· Spatial resolution	"European Guidelines for quality assurance in
		mammography screening", third edition,
		and with
		"Recommended specifications" for Quality
		assurance in mammography of American
		College of Radiology
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Product data Mammographic System

# **TECHNICAL FEATURES**

• FED.         65 m           • Vertical movement with respect to Breast support (C-ARM in vertical position)         95 mm ito 130 cm max Lexan screen for patient's face protection           • Vertical movement with respect to Breast support (C-ARM in vertical position)         • Light Beam         Automate switch ON when operating compression and determine time?           • Light Intensity         • Light Beam         Compression and determine time?         • 160 kg           • Light Intensity         • Light Beam         Control Control To Science         • 160 kg           • Compression Paddles (splotnam)         Manual or motor driven Interchangebel collimation plate for 1822 cm Interchangebel collimation plate for 1822 cm         • 160 kg           • Compression Paddles (splotnal)         • 160 kg         • Compression Paddles (splotnal)         • 1642 cm sithed, 123 cm straight           • Assimum free space available between         139 cm with shifted Compression Paddles of Indegration mode.         • Compression Paddles and image receptor         • Magnification resion maddles of 162 bitsplot           • Compression plate release differ exposure • Compression plate release differ exposure • Compression plate aluminium equival         • Sift 1         • Sift 1           • Compression plate aluminium equival         • Sift 1         • Sift 1         • Sift 1           • Compression plate aluminium equival         • Sift 1         • Sift 1         • Sift 1           • Comp		I LONNIGAL I LATOREO	
• Verical movement with respect to Breast support (C-ARM in vertical position)       Scorm into 130 cm max Loxan screen for patient's face protection compression and electronic timer         • Light tent protection       - Light Mean       Automatic switch ON when operating compression and electronic timer         • Light tintensity       - 150 lux       according to EIC 601-1.3         • Light tintensity       - 150 lux       according to EIC 601-1.3         • Mirror       • Collimation plates       Interchangeable collimation plate for 18x24 cm film size (FFD 62m) and 0714 cm         • Compression Paddles (standard)       16x22 cm shited, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shited, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shited, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shited, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shited, 12x8 cm straight         • Compression Paddles and image receptor       Infragitit compression plate         • Compression Thickness Display       Displayed in mm         • Compression plate anuminum equiv.       Less than 0.2 mm AI (0.135 mm Al=00 kV)         • Compression plate anuminum equiv.       Less than 0.2 mm AI (0.135 mm Al=00 kV)         • Compression plate anuminum equiv.       Less than 0.2 mm AI (0.135 mm Al=00 kV)         • Compression plate anuminum equiv.	C-ARM	• F.F.D.	65 cm
support (C-ARM in vertical position)       5cm min to 130 cm max Lexan screen for patient's face protection         COLLIMATOR       Light beam       Automatic switch ON when operating         Light intensity       2 150 lux       2 150 lux         Automatic switch OUT of FIELD Numbers       2 150 lux       2 150 lux         Vitror       with automatic OUT of FIELD Numbers       2 150 lux         COMPRESSION SYSTEM       Compression Paddles (standard)       16522 cm shifted, 1243 cm straight         Compression Paddles (standard)       16522 cm shifted, 1243 cm straight       10.82 cm shifted, 10.82 cm         Compression Paddles (standard)       16522 cm shifted, 10.82 cm       10.82 cm         Maximum free space available between       39.5 cm with shifted Compression Paddles       10.84 cm         Compression Paddles (standard)       16.82 cm shifted, 10.82 cm       10.84 cm         Compression Paddles (standard)       16.82 cm shifted, 24.80 cm       10.84 cm         Compression Paddles (standard)       16.82 cm       10.84 cm         Compression Paddles (standard)       16.82 cm       10.84 cm         Compression Paddles (standard)       10.82 cm       10.84 cm         Compression Paddles (standard)       10.82 cm       10.81 cm         Compression Paddles (standard)       10.91 cm       10.91 cm		Rotation	Manual ±180° with disc brake
Patient protection     COLLIMATOR     COLLIMATOR     COLLIMATOR     COLLIMATOR     Collision     Collision     Collision     Collision     Compression and electronic timer     Light intensity     Light EEAM collination accuracy     according to EG01-13     Compression Paddles of temp     Compression Paddles (standard)     Toc2 constitued, 24x30 cm shifted, 12x8 cm straight     Compression Paddles (standard)     Toc2 cm shifted, 24x30 cm shifted, 10x8 cm     shifted, 12x22 cm shifted, 12x8 cm straight     Compression Paddles (optional)     Sorted, 12x8 cm     Straight compression paddles     Compression Paddles (optional)     Sorted, 12x8 cm     Straight compression paddles     Compression Paddles (optional)     Sorted, 12x8 cm     Straight compression paddles     Compression Paddles (optional)     Sorted, 12x8 cm     Straight compression paddle     Compression palate release after exposure     Selectable from control panel, automatic or     manual for 2D biopsy     Compression plate aluminium equiv.     Less than 0.2 mm AI(0.135 mm AI+30 KV)     Sorted, 12x8		<ul> <li>Vertical movement with respect to Breast</li> </ul>	
COLLIMATOR       • Light beam       Automatic switch ON when operating compression and electronic timer         • Light Intensity       ≥ 150 lux       according to IEC 601-1-3         • Wirror       with automatic OUT of FIELD function       with automatic OUT of FIELD function         • Compression Paddles collimation plate for 18x2d cm film size (FFD 65cm) and 0214 cm       manual or motor driven         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm straight         • Compression Paddles (standard)       16x24 cm straight         • Compression Paddles (standard)       16x24 cm straight         • Compression Paddles (standard)       16x35 cm 44x30 cm		support (C-ARM in vertical position)	55cm min to 130 cm max
<ul> <li>Light intensity</li> <li>Light BEAM collimation accuracy</li> <li>Mirror</li> <li>Collimation plates</li> </ul> <ul> <li>Collimation plates</li> <li>Compression Paddle movement</li> <li>Manual or motor driven</li> <li>Compression Paddles (standard)</li> <li>Coc22 cm shifted, 22x40 cm shifted, 42x40 cm shifted, 42x40 cm shifted, 12x40 cm straight</li> <li>Compression Paddles (standard)</li> <li>Coc22 cm shifted, 42x40 cm</li></ul>		Patient protection	Lexan screen for patient's face protection
<ul> <li>Light intensity</li> <li>Light BEAM collimation accuracy</li> <li>Mirror</li> <li>Collimation plates</li> </ul> <ul> <li>Collimation plates</li> <li>Compression Paddle movement</li> <li>Manual or motor driven</li> <li>Compression Paddles (standard)</li> <li>Coc22 cm shifted, 22x40 cm shifted, 42x40 cm shifted, 42x40 cm shifted, 12x40 cm straight</li> <li>Compression Paddles (standard)</li> <li>Coc22 cm shifted, 42x40 cm</li></ul>		Linksha ang	Automatic suitely Oblack an another
<ul> <li>Light intensity</li> <li>Light BEAM collination accuracy</li> <li>Light BEAM collination accuracy</li> <li>Collination plates</li> <li>Collination plates</li> <li>Compression Paddle movement</li> <li>Manual or motor driven</li> <li>Cocompression Paddles (standard)</li> <li>Cocompression Paddles and image receptor</li> <li>Compression plate for tax24 cm straight</li> <li>Maximum free space available between</li> <li>So cm with shifted Compression Paddles</li> <li>Compression Paddle and image receptor</li> <li>Compression plate release after exposure</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Compression plate size</li> <li>Contrast factor</li> <li>Lines/cm</li> <li>Selectable from control panel, automatic or manual for 20 biopsy</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Compression plate size</li> <li>Selectable from control panel, automatic or manual for a potential and the compatibility.</li> <li>Lines/cm</li> <li>Selectable from control panel, automatic or manual for applicable.</li> <li>Compression plate aluminium equiv.</li> <li>Lines/cm</li> <li>Costast factor</li> <li>Lines/cm</li> <li>Costast factor</li> <li>Lines/cm</li> <li>Costast factor</li> <li>Lines/cm</li> <li>Cosasette compatibility&lt;</li></ul>	COLLIMATOR	• Light beam	
Light BEAM collimation accuracy     All the collimation plates     All the collimation plates     Compression Paddle movement     Compression Paddles (standard)     Cox2 cm shifted, 12x8 cm straight     Compression Paddles (optional)     Soft compression Paddles (standard)     Cox2 cm shifted, 12x8 cm straight     Compression Paddles (optional)     Soft compression Paddles (standard)     Cox2 cm shifted, 12x8 cm straight     Compression Paddles (optional)     Soft compression Paddles (control between     Compression Paddles and image receiptor     All compression plate     Compression Paddles and image receiptor     Compression plate release after exposure     Compression plate release after exposure     Compression plate aluminium equiv.     Less than 0.2 mm AI (0.135 mm AI=30 kV)     Soft compression plate aluminium equiv.     Less than 0.2 mm AI (0.135 mm AI=30 kV)     Compression plate aluminium equiv.     Cassette size     Cossette detector switch     Cost and add     Cossette size     Top Cover     Carbon fibre     Tote Vith NORMI Phantom     Typical 3.5 balls     Other features     without tose     Carbon fibre     Table: 0.1 mm Aleq (carbon fibre)     Table with grid: 0.3 mm Aleq			
Mirror     Collimation plates     Minor Collimation plates     Collimation plates     Collimation plates     Collimation plates     Compression Paddle movement     Manual or modor driven     Compression Paddles (standard)     16x22 cm shifted, 12x8 cm straight     Compression Paddles (standard)     16x22 cm shifted, 12x8 cm straight     Compression Paddles (optional)     Shifted, 12x8 cm straight     Compression Paddles (optional)     Shifted, 12x8 cm straight     Compression Paddle and image receptor     (Straight compression plate)     Maximum free space available between     39.5 cm with shifted Compression Paddles     Compression Paddle and image receptor     (Straight compression plate)     Compression Paddle and image receptor     (Straight compression plate)     Compression plate release after exposure     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     Compression plate release after exposure     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     Compression plate erelease after exposure     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     Compression plate release after exposure     Compression plate erelease after exposure     Compression plate erelease after exposure     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     Compression plate aluminium equive     Compression plate erelease after exposure     Top Cover     Contrast factor     Tabic 0.1 mm Aleq (0.155 mm Ale=     Top Cover     Film marker     Int			
• Collimation plates       Interchangeable collimation plate for 18x24 cm film size (FFD 65cm) and Ø14 cm         COMPRESSION SYSTEM       • Compression Paddle movement       Manual or motor driven         • Compression Paddles (standard)       16x22 cm shifted, 12x8 cm shifted, 10x8 cm         • Compression Paddles (standard)       10x22 cm shifted, 12x8 cm shifted, 10x8 cm         • Maximum free space available between       39.5 cm with shifted Compression Paddles         • Maximum free space available between       39.5 cm with shifted Compression Paddles         • Compression Paddle and image receptor       (straight compression plate) MAG, X2 = 14cm MAG, X2 = 14cm MAG, X2 = 14cm         • Compression Thickness Display       Displayed in mm         • Compression plate release after exposue       Selectable from control panel, automatic or manual for 2D biopsy         • Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al=30 kV)         MAGNIFICATION       • Magnification ratio       x1.5 / x2 with potter bucky         • Contrast factor       1.47       • Cassette size       18x4 cm standard         • Lines/cm       36       • Contrast factor       1.47       • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       • Top Cover       Carbon fibre       • Top Cover       Carbon fibre       • Top Cover			
COMPRESSION SYSTEM <ul> <li>Compression Paddles (standard)</li> <li>Compression Paddle and image receptor</li> <li>Compression Paddle and image receptor</li> <li>Compression Paddle and image receptor</li> <li>Compression plate (standard)</li> <li>Compression Plate release after exposure</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Statistic factor</li> <li>Statistic factor</li> <li>Statistic factor</li> <li>Contrast factor</li> <li>Compression factor</li> <li>Compression Plate size</li> <li>Statistic mathematic exponsion</li> <li>Compression</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Statistic factor</li> <li>Statistic factor</li> <li>Contrast factor</li> <li>Contrast factor</li> <li>Contrast factor</li> <li>Cassette compatibility</li> <li>All the most wides pread models with window as: Aqfa, Dupont, Fuji, Kodak, 3M</li> <li>Cassette detector switch</li> <li>Top Cover</li> <li>Cassette detector switch</li> <li>Top Cover</li> <li>Cassette detector switch</li> <li>Top Cover</li> <li>Cassette detector switch</li></ul>			
COMPRESSION SYSTEM <ul> <li>Compression Paddle movement</li> <li>Manual or motor driven</li> <li>Compression Paddles (standard)</li> <li>16x22 cm shifted, 12x8 cm straight</li> <li>Compression Paddles (optional)</li> <li>16x22 cm shifted, 12x8 cm straight</li> <li>Compression Paddles (optional)</li> <li>Maximum free space available between</li> <li>39.5 cm with shifted Compression Paddles</li> <li>Compression Paddle and image receptor</li> <li>In Magnification Mode.</li> <li>Gstraight Compression plate)</li> <li>MAG. X2 = 14cm</li> <li>MAG. X1.5 = 24cm</li> <li>Compression plate release after exposure</li> <li>Selectable from control panel, automatic or manual for 2D biopsy</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Magnification ratio</li> <li>x1.5 / x2 with potter bucky</li> <li>Bucky factor (grid)</li> <li>1.96</li> <li>Ratio</li> <li>5:1</li> <li>Lines/cm</li> <li>Cassette size</li> <li>182/2 cm straignt</li> <li>Cassette size</li> <li>24X30 cm optional</li> <li>Cassette detector switch</li> <li>With alarm in different languages to avoid double exposure or exposure without cassette</li> <li>Top Cover</li> <li>Cator fire</li> <li>Cover</li> <li>Test with NORMI Phantom</li> <li>Typical 3.5 balls</li> <li>Other features</li> <li>Grid movement synchronized with X-RAY beam</li> <li>Aluminum equivalence</li> <li>Table with grid: 0.3 mm Aleq</li> <li>Marinum equivalence</li> <li>Table with grid: 0.3 mm Aleq</li> <li>Marinum equivalence</li> <li>Table with grid: 0.3 mm Aleq</li> <li>Marinum equivalence</li> <li>Table with grid: 0.3 mm Aleq</li></ul>		Commation plates	
<ul> <li>Compression Paddles (standard)</li> <li>Compression Paddles (optional)</li> <li>No22 cm shifted, 24x30 cm shifted, 12x8 cm straight</li> <li>No22 cm shifted, 24x30 cm shifted, 12x8 cm straight</li> <li>Maximum free space available between</li> <li>So cm with shifted Compression Paddles</li> <li>Compression Paddle and image receptor</li> <li>Compression plate release after exposure</li> <li>Selectable from control panel, automatic or manual for 2D biopsy</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Magnification ratio</li> <li>x1.5 / x2 with potter bucky</li> <li>Ratio</li> <li>Scient factor</li> <li>Lines/cm</li> <li>Consta factor</li> <li>Lines/cm</li> <li>Cassette compatibility</li> <li>All the most wides pread models with window as: Agfa, Dupont, Fuji, Kodak, 3M</li> <li>Cassette detector switch</li> <li>With alarm in different languages to avoid double exposure or exposure without cassette</li> <li>Top Cover</li> <li>Carbon fibre</li> <li>Film marker</li> <li>Integrated with two labels wheels</li> <li>Test with NORMI Phantom</li> <li>Typical 3.5 balls</li> <li>Other features</li> <li>Aluminum equivalence</li> <li>Table with grid: 0.3 mm Aleq</li> </ul>			
<ul> <li>Compression Paddles (optional)</li> <li>10x22 cm shifted, 24x30 cm shifted, 10x8 cm shifted, 12x22 cm straight</li> <li>Maximum free space available between</li> <li>39.5 cm with shifted Compression Paddles</li> <li>Compression Paddle and image receptor</li> <li>InMagnification Mode. (straight compression plate) MAG. X1.5 = 24cm</li> <li>Compression Plate release after exposure</li> <li>Selectable from control panel, automatic or manual for 2D biopsy</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al&lt;0.135 mm Al&lt;0.30 kV)</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al&lt;0.135 mm Al&lt;0.30 kV)</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al</li> <li>Contrast factor</li> <li>Lines/cm</li> <li>Contrast factor</li> <li>Contrast factor</li> <li>Contrast factor</li> <li>Contrast factor</li> <li>Contrast factor</li> <li>Const dete size</li> <li>Cassette detector switch</li> <li>With alarm in different languages to avoid double exposure or exposure without cassette</li> <li>Top Cover</li> <li>Cassette detector switch</li> <li>Top Cover</li> <li>Cassette detector switch</li> <li>Top Cover</li> <li>Cassette detector switch</li> <li>Other features</li> <li>Edity interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam</li> <li>Altminum equivalence</li> <li>Table with grid: 0.3 mm Aleq</li> </ul>	COMPRESSION SYSTEM	Compression Paddle movement	Manual or motor driven
Maximum free space available between       39.5 cm with shifted Compression Paddles         Compression Paddle and image receptor       in Magnification Mode.         (straight compression plate)       MAG. X2 = 14cm         MAG. X1.5 = 24cm       MAG. X1.5 = 24cm         Compression plate release after exposure       Selectable from control panel, automatic or manual for 2D biopsy         • Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al=30 kV)         • Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al=30 kV)         • Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al=30 kV)         • Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al=30 kV)         • Contrast factor (grid)       1.96         • Ratio       5.1         • Contrast factor       1.47         • Cassette size       18x24 cm standard         • Constast factor       1.47         • Cassette compatibility       All the most wides pread models with window as:         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Top Cover       Carbon fibre         • Test with NORMI Phantom       Typical 3.5 balls         • Other features       Without tools <th></th> <th>Compression Paddles (standard)</th> <th>16x22 cm shifted, 12x8 cm straight</th>		Compression Paddles (standard)	16x22 cm shifted, 12x8 cm straight
<ul> <li>Maximum free space available between</li> <li>39.5 cm with shifted Compression Paddles</li> <li>Compression Paddle and image receptor</li> <li>(Straight compression plate)</li> <li>MAG, X2 = 14cm</li> <li>MAG, X1.5 = 24cm</li> <li>Compression plate release after exposure</li> <li>Compression plate release after exposure</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>Compression plate aluminium equiv.</li> <li>Less than 0.2 mm Al (0.135 mm Al=30 kV)</li> <li>MAGNIFICATION</li> <li>Magnification ratio</li> <li>x1.5 / x2 with potter bucky</li> <li>Bucky factor (grid)</li> <li>1.96</li> <li>Ratio</li> <li>Contrast factor</li> <li>1.47</li> <li>Cassette size</li> <li>24x30 cm optional</li> <li>Cassette compatibility</li> <li>Alga, Dupont, Fuji, Kodak, 3M</li> <li>Cassette detector switch</li> <li>Top Cover</li> <li>Top Cover</li> <li>Top Cover</li> <li>Top Cover</li> <li>Film marker</li> <li>Integrated with two labels wheels</li> <li>Test with NORMI Phantom</li> <li>Typical 3.5 balls</li> <li>Other features</li> <li>Aluminum equivalence</li> <li>Table: 0.1 mm Aleg (carbon fiber)</li> <li>Table with grid: 0.3 mm Aleg</li> </ul>		Compression Paddles (optional)	10x22 cm shifted, 24x30 cm shifted, 10x8 cm
Compression Paddle and image receptor       in Magnification Mode_ (straight compression plate) MAG. X2 = 14cm MAG. X1 = 14cm MAG. X1 = 14cm         • Compression Thickness Display       Displayed in mm         • Compression plate release after exposure manual for 2D biopsy       Selectable from control panel, automatic or manual for 2D biopsy         • Compression plate aluminium equiv.       Less than 0.2 mm AI (0.135 mm AI=30 kV)         • Magnification ratio       x1.5 / x2 with potter bucky         • Bucky factor (grid)       1.96         • Ratio       5:1         • Lines/cm       36         • Contrast factor       1.47         • Cassette compatibility       All the most wides pread models with window as: Agfa, Dupont, Fuji, Kodak, 3M         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrated with two labels wheels         • Test with NORMI Phantom       Typical 3.5 balls         • Other features       Grid movement synchronized with X-RAY beam         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber)         • Table with grid: 0.3 mm Aleq       Table with grid: 0.3 mm Aleq			shifted, 12x22 cm straight
(straight compression plate) MAG: X2 = 14cm MAG: X1 5 = 24cm         • Compression Thickness Display       Displayed in mm         • Compression plate release after exposure       Selectable from control panel, automatic or manual for 2D biopsy         • Compression plate aluminium equiv.       Less than 0.2 mm AI (0.135 mm AI=30 kV)         • Compression plate aluminium equiv.       Less than 0.2 mm AI (0.135 mm AI=30 kV)         • Compression plate aluminium equiv.       Less than 0.2 mm AI (0.135 mm AI=30 kV)         • Magnification ratio       x1.5 / x2 with potter bucky         • Bucky factor (grid)       1.96         • Ratio       5:1         • Lines/cm       36         • Contrast factor       1.47         • Cassette size       18x24 cm standard         • Cassette size       18x24 cm standard         • Cassette compatibility       All the most wides pread models with window as: Agfa, Dupont, Fuji, Kodak, 3M         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrated with two labels wheels         • Top Cover       Easily interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber)		Maximum free space available between	39.5 cm with shifted Compression Paddles
MAG. X2 = 14cm MAG. X1.5 = 24cm AG. X1.5 = 24cm • Compression Thickness Display • Compression platee release after exposure • Compression plate aluminium equiv. • MaGNIFICATION • Magnification ratio • Magnification ratio • Magnification ratio • Magnification ratio • Magnification ratio • Contrast factor (grid) • Lines/cm • Cassette of the second state of the second s		Compression Paddle and image receptor	in Magnification Mode
MAG. X1.5 = 24cm         • Compression Thickness Display       Displayed in mm         • Compression plate release after exposure       Selectable from control panel, automatic or manual for 2D biopsy         • Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al=30 kV)         • Magnification ratio       x1.5 / x2 with potter bucky         • Bucky factor (grid)       1.96         • Ratio       5:1         • Lines/cm       36         • Constat factor       1.47         • Cassette size       18x24 cm standard         • Cassette compatibility       All the most wides pread models with window as:         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrade with two labels wheels         • Film marker       Typical 3.5 balls         • Other features       Easily interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber)         • Aluminum equivalence       Table: with grid: 0.3 mm Aleq			(straight compression plate)
Compression Thickness Display     Displayed in mm     Compression plate release after exposure     Selectable from control panel, automatic or     manual for 2D biopsy     Compression plate aluminium equiv.     Less than 0.2 mm Al (0.135 mm Al=30 kV)     MAGNIFICATION     MAGNIFICATION     Magnification ratio     X1.5 / x2 with potter bucky     Bucky factor (grid)     1.96     Ratio     State of the second			MAG. X2 = 14cm
• Compression platee release after exposure       Selectable from control panel, automatic or manual for 2D biopsy         • Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al≈30 kV)         • Magnification ratio       x1.5 / x2 with potter bucky         • Bucky factor (grid)       1.96         • Ratio       5:1         • Lines/cm       36         • Contrast factor       1.47         • Cassette size       18x24 cm standard         • Cassette compatibility       Al the most wides pread models with window as: Agfa, Dupont, Fuji, Kodak, 3M         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrated with two labels wheels         • Test with NORMI Phantom       Typical 3.5 balls         • Other features       Easily interchangeable with X-RAY beam         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber)         • Aluminum equivalence       Table: 0.1 mm Aleq			MAG. X1.5 = 24cm
manual for 2D biopsy         • Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al≈30 kV)         MAGNIFICATION       • Magnification ratio       x1.5 / x2 with potter bucky         POTTER BUCKY       • Bucky factor (grid)       1.96         • Ratio       5:1       1.105         • Contrast factor       1.47         • Cassette size       18x24 cm standard         24x30 cm optional       • Cassette compatibility         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrated with two labels wheels         • Test with NORMI Phantom       Typical 3.5 balls         • Other features       Easily interchangeable with x-RAY beam         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber)         • Aluminum equivalence       Table: 0.1 mm Aleq		Compression Thickness Display	Displayed in mm
• Compression plate aluminium equiv.       Less than 0.2 mm Al (0.135 mm Al≈30 kV)         MAGNIFICATION       • Magnification ratio       x1.5 / x2 with potter bucky         POTTER BUCKY       • Bucky factor (grid)       1.96         • Ratio       5:1       1.06         • Lines/cm       36       24x30 cm optional         • Cossette size       18x24 cm standard         24x30 cm optional       • Cassette compatibility       All the most wides pread models with window as: Agfa, Dupont, Fuji, Kodak, 3M         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrated with two labels wheels         • Test with NORMI Phantom       Typical 3.5 balls         • Other features       Easily interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber) Table with grid: 0.3 mm Aleq		Compression platee release after exposure	Selectable from control panel, automatic or
MAGNIFICATION       • Magnification ratio       x1.5 / x2 with potter bucky         POTTER BUCKY       • Bucky factor (grid)       1.96         • Ratio       5:1         • Lines/cm       36         • Contrast factor       1.47         • Cassette size       18x24 cm standard         • Z4x30 cm optional       •         • Cassette compatibility       All the most wides pread models with window as:         Agfa, Dupont, Fuji, Kodak, 3M       •         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrated with two labels wheels         • Test with NORMI Phantom       Typical 3.5 balls         • Other features       Easily interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber) Table with grid: 0.3 mm Aleq			
POTTER BUCKY       - Bucky factor (grid)       1.96         • Ratio       5:1         • Lines/cm       36         • Contrast factor       1.47         • Cassette size       18x24 cm standard         24x30 cm optional       -         • Cassette compatibility       All the most wides pread models with window as:         Agfa, Dupont, Fuji, Kodak, 3M       -         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrated with two labels wheels         • Test with NORMI Phantom       Typical 3.5 balls         • Other features       Easily interchangeable with other accessories without tools         Grid movement synchronized with X-RAY beam       -         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber)         Table with grid: 0.3 mm Aleq       -		Compression plate aluminium equiv.	Less than 0.2 mm Al (0.135 mm Al≈30 kV)
POTTER BUCKY       - Bucky factor (grid)       1.96         · Ratio       5:1         · Lines/cm       36         · Contrast factor       1.47         · Cassette size       18x24 cm standard         · Cassette compatibility       All the most wides pread models with window as:         · Agfa, Dupont, Fuji, Kodak, 3M         · Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         · Top Cover       Carbon fibre         · Film marker       Integrated with two labels wheels         · Test with NORMI Phantom       Typical 3.5 balls         · Other features       Easily interchangeable with other accessories without tools         Grid movement synchronized with X-RAY beam         · Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber)         Table with grid: 0.3 mm Aleq	MAGNIFICATION	Magnification ratio	x1.5 / x2 with potter bucky
<ul> <li>Ratio</li> <li>5:1</li> <li>Lines/cm</li> <li>Contrast factor</li> <li>Cassette size</li> <li>18x24 cm standard</li> <li>24x30 cm optional</li> <li>Cassette compatibility</li> <li>All the most wides pread models with window as:</li> <li>Agfa, Dupont, Fuji, Kodak, 3M</li> <li>Cassette detector switch</li> <li>With alarm in different languages to avoid double exposure or exposure without cassette</li> <li>Top Cover</li> <li>Film marker</li> <li>Integrated with two labels wheels</li> <li>Test with NORMI Phantom</li> <li>Other features</li> <li>without tools</li> <li>Grid movement synchronized with X-RAY beam</li> <li>Aluminum equivalence</li> <li>Table with grid: 0.3 mm Aleq</li> </ul>		-	
<ul> <li>Lines/cm</li> <li>Contrast factor</li> <li>Contrast factor</li> <li>Cassette size</li> <li>Cassette size</li> <li>Cassette compatibility</li> <li>All the most wides pread models with window as:</li> <li>Agfa, Dupont, Fuji, Kodak, 3M</li> <li>Cassette detector switch</li> <li>With alarm in different languages to avoid double exposure or exposure without cassette</li> <li>Top Cover</li> <li>Top Cover</li> <li>Film marker</li> <li>Integrated with two labels wheels</li> <li>Test with NORMI Phantom</li> <li>Other features</li> <li>Other features</li> <li>Fasily interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam</li> <li>Aluminum equivalence</li> <li>Table: 0.1 mm Aleq (carbon fiber)</li> <li>Table with grid: 0.3 mm Aleq</li> </ul>	POTTER BUCKY		
<ul> <li>Contrast factor</li> <li>Cassette size</li> <li>18x24 cm standard</li> <li>24x30 cm optional</li> <li>Cassette compatibility</li> <li>All the most wides pread models with window as:</li> <li>Agfa, Dupont, Fuji, Kodak, 3M</li> <li>Cassette detector switch</li> <li>Vith alarm in different languages to avoid double exposure or exposure without cassette</li> <li>Top Cover</li> <li>Carbon fibre</li> <li>Film marker</li> <li>Integrated with two labels wheels</li> <li>Test with NORMI Phantom</li> <li>Typical 3.5 balls</li> <li>Other features</li> <li>Aluminum equivalence</li> <li>Aluminum equivalence</li> <li>Table vith grid: 0.3 mm Aleq</li> </ul>			
Cassette size     18x24 cm standard     24x30 cm optional     Cassette compatibility     All the most wides pread models with window as:     Agfa, Dupont, Fuji, Kodak, 3M     Cassette detector switch     Vith alarm in different languages to avoid     double exposure or exposure without cassette     Top Cover     Top Cover     Carbon fibre     Test with NORMI Phantom     Typical 3.5 balls     Other features     With other accessories     without tools     Grid movement synchronized with X-RAY     beam     Aluminum equivalence     Table: 0.1 mm Aleq (carbon fiber)     Table with grid: 0.3 mm Aleq			
24x30 cm optional         • Cassette compatibility       All the most wides pread models with window as: Agfa, Dupont, Fuji, Kodak, 3M         • Cassette detector switch       With alarm in different languages to avoid double exposure or exposure without cassette         • Top Cover       Carbon fibre         • Film marker       Integrated with two labels wheels         • Test with NORMI Phantom       Typical 3.5 balls         • Other features       Easily interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam         • Aluminum equivalence       Table: 0.1 mm Aleq (carbon fiber) Table with grid: 0.3 mm Aleq			
Cassette compatibility     All the most wides pread models with window as:     Agfa, Dupont, Fuji, Kodak, 3M     Cassette detector switch     With alarm in different languages to avoid     double exposure or exposure without cassette     Top Cover     Top Cover     Film marker     Integrated with two labels wheels     Test with NORMI Phantom     Typical 3.5 balls     Other features     Other features     Agfa, Dupont, Fuji, Kodak, 3M     double exposure or exposure without cassetie     Grid movement synchronized with X-RAY     beam     Aluminum equivalence     Table: 0.1 mm Aleq (carbon fiber)     Table with grid: 0.3 mm Aleq		• Cassette size	
Agfa, Dupont, Fuji, Kodak, 3M• Cassette detector switchWith alarm in different languages to avoid double exposure or exposure without cassette• Top CoverCarbon fibre• Film markerIntegrated with two labels wheels• Test with NORMI PhantomTypical 3.5 balls• Other featuresEasily interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam• Aluminum equivalenceTable: 0.1 mm Aleq (carbon fiber) Table with grid: 0.3 mm Aleq		· Connette competibility	
Cassette detector switch     With alarm in different languages to avoid     double exposure or exposure without cassette     Top Cover     Top Cover     Film marker     Integrated with two labels wheels     Test with NORMI Phantom     Typical 3.5 balls     Other features     Other features     Carbon fibre     Aluminum equivalence     Aluminum equivalence     Table: 0.1 mm Aleq (carbon fiber)     Table with grid: 0.3 mm Aleq		Casselle compatibility	
double exposure or exposure without cassette• Top CoverCarbon fibre• Film markerIntegrated with two labels wheels• Test with NORMI PhantomTypical 3.5 balls• Other featuresEasily interchangeable with other accessories without tools Grid movement synchronized with X-RAY beam• Aluminum equivalenceTable: 0.1 mm Aleq (carbon fiber) Table with grid: 0.3 mm Aleq		Cassotta datastar switch	
<ul> <li>Top Cover</li> <li>Film marker</li> <li>Integrated with two labels wheels</li> <li>Test with NORMI Phantom</li> <li>Other features</li> <li>Other features</li> <li>Fidd movement synchronized with X-RAY beam</li> <li>Aluminum equivalence</li> <li>Table: 0.1 mm Aleq (carbon fiber)</li> <li>Table with grid: 0.3 mm Aleq</li> </ul>			
<ul> <li>Film marker</li> <li>Integrated with two labels wheels</li> <li>Test with NORMI Phantom</li> <li>Other features</li> <li>Other features</li> <li>Film marker</li> <li>Conter features</li> <li>Conter features&lt;</li></ul>		• Top Cover	· ·
Test with NORMI Phantom     Typical 3.5 balls     Other features     Substrain of the sease			
Other features     Easily interchangeable with other accessories     without tools     Grid movement synchronized with X-RAY     beam     Aluminum equivalence     Table: 0.1 mm Aleq (carbon fiber)     Table with grid: 0.3 mm Aleq			-
without tools     Grid movement synchronized with X-RAY     beam     Aluminum equivalence     Table: 0.1 mm Aleq (carbon fiber)     Table with grid: 0.3 mm Aleq			
Grid movement synchronized with X-RAY     beam     Aluminum equivalence     Table: 0.1 mm Aleq (carbon fiber)     Table with grid: 0.3 mm Aleq			
Aluminum equivalence     Table: 0.1 mm Aleq (carbon fiber)     Table with grid: 0.3 mm Aleq			
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Table with grid: 0.3 mm Aleq		Aluminum equivalence	
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Milady	
Product data	Mammographic System

## **TECHNICAL FEATURES**

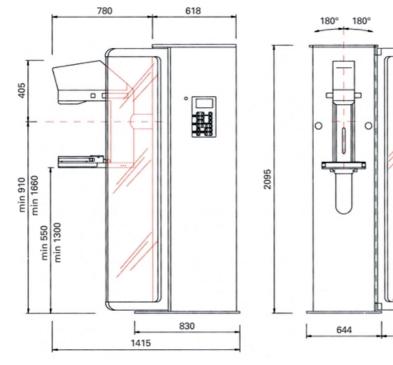
	TECHNICAL FEATURES	
DOSE CALCULATOR	Calculated dose	Average Glandular Dose (AGD)
	Data visualization	mGy on display, label printer and data memory with average dose value on 13 exposition to evaluate released dose
CONTROL CONSOLE	Technology	Microprocessor controlled with unique safety features exceeding IEC 601-1-4-, all functions under active operator control
	• Display	GRAPHIC LCD Display 240x128 dots
	Alarm messages	In several languages selectable
	Serial port for Film ID Flasher or     Dose Label Printer	Dedicated for film labelling device
		(200 characters printed on film) or Adhesive Labels with Dose
	<ul> <li>Calibration and service Serial port</li> <li>Special features</li> </ul>	For service laptop with dedicated software Last 1300 exposure memory; Tube Thermal Unit display and active protection. Technical display for self-test and defective block identification, firmware release, exposure counter and last exposure
		time/date
	Statistics funtion	Average dose, amount of exposure for every
		kV value, amount of exposure in every test technique
FOOT PEDALS	For compression	One pair
EMERGENCY STOP/SHUTDOWN	Red push-buttons	On both sides to switch the unit totally off
SWITCHES		
ENVIRONMENTAL CONDITIONS	Storage and delivery conditions (while packed)	temperature -20° C / + 70° C relative humidity 10% / 90% barometric pressure 500 hPa/1060 hPa
	Operating conditions	temperature +10°C / + 40°C
		relative humidity 30% / 75%
	. Distantian degree executing to standard	barometric pressure 700 hPa/1060 hPa
	Protection degree according to standard IEC 529	IP 10
	Heat dissipated in max load condition of	
	35 kV 500 mAs (1 shot every 5 minutes)	264 kCal/h
ENVIRONMENT PROTECTION AND WASTE DISPOSAL	Device contains in some of its parts and subassemblies, solid and liquid substances that must be disposed only by designated companies according to local laws. More specifically, device contains:	
	Tube assembly	Beryllium, lead, glass, dielectric oil (PCB free),
	• H.V. transformer	other metals and plastic. Dielectric oil (PCB free), plastic, copper other metals
	Other subassemblies	Plastic, other metals, electronic components
		glass-epoxy printed circuits
		BMI

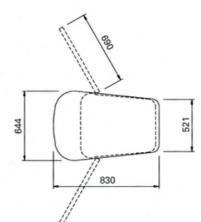
	TECHICAL FEATURES	
<b>CLASSIFICATION (IEC 601-1)</b>	<ul> <li>Protection against electric shock:</li> </ul>	Class I, with type B applied parts.
	<ul> <li>Protection against harmful ingress of water:</li> </ul>	IPX0
	Degree of safety in the presence of flammable	Not suitable for use in the presence of
	anesthetics mixture with. air or oxygen or	Flammable Anesthetics Mixture with air or
	nitrous oxide:	oxygen or nitrous oxide.
	Mode of operation:	Continuous operation with intermittent loading.
MAINS CHARACTERISTICS	Line voltage	220/230/240Vac ±10% 50/60 Hz
	Power	6.6 kVA (0.5 kVA stand-by)
	Current absorption	30 A peak
	Number of phases	1 or 2 configurable
	Connection	Permanently installed (IEC 601-1)

ilad Product data

- · Maximum apparent resistance
- Permanently installed (IEC 601-1)  $0.50\,\Omega$

Mammographic System







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690

