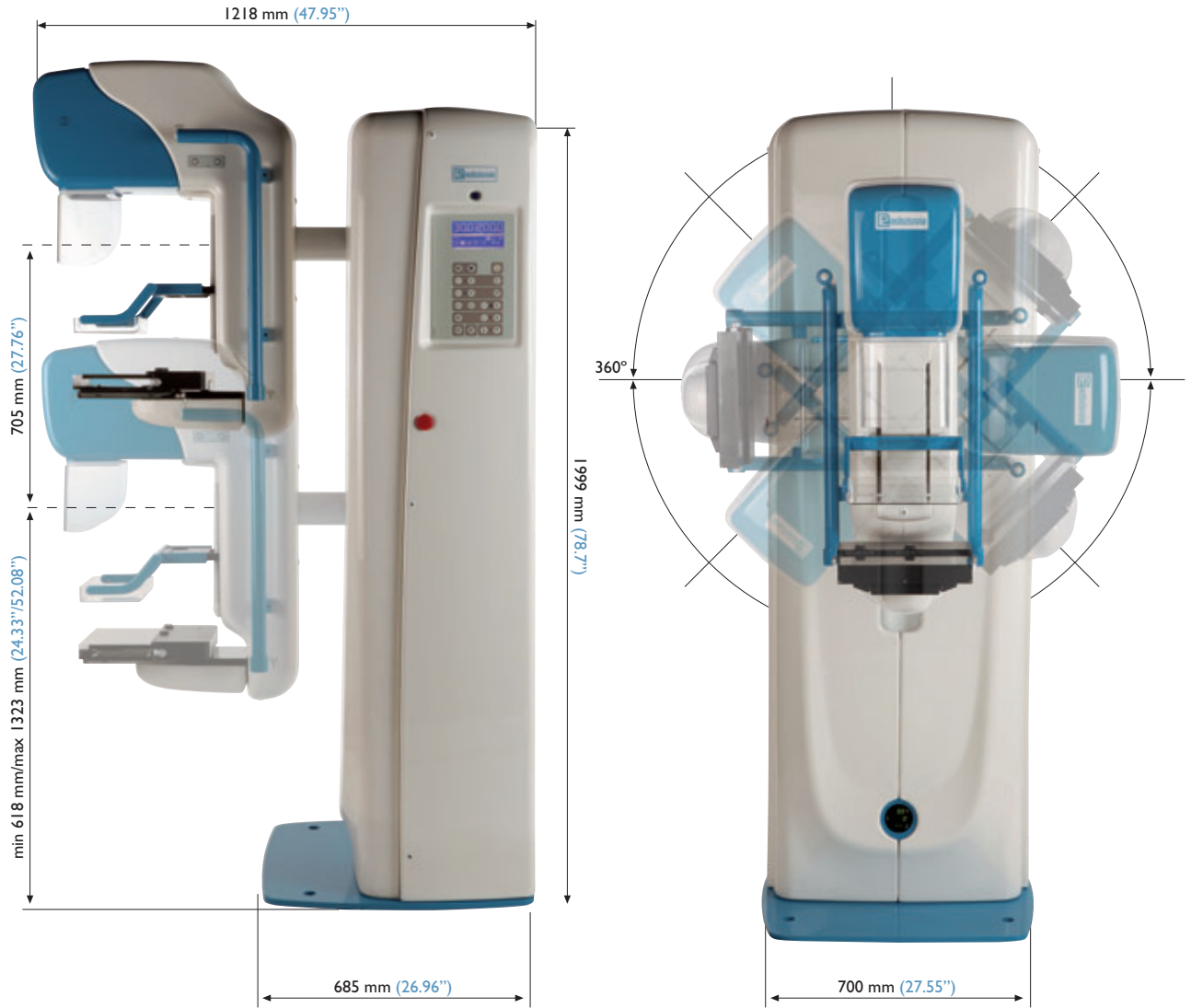


DIMENSIONS AND WEIGHTS



MAMMO X-Ray SYSTEM WEIGHTS

	CONVENTIONAL	DIGITAL
Femina	275 Kgs. (606 lbs.)	300 Kgs. (661 lbs.)
Femina Advanced	320 Kgs. (705 lbs.)	345 Kgs. (761 lbs.)

ANTI X-Ray SCREEN WEIGHTS

Half-body Screen	77 Kgs. (160 lbs.)
Full-body Screen	105 Kgs. (231 lbs.)
Adquisition Station Screen	120 Kgs. (265 lbs.)

femina

Radiología
rayos x • electromedicina



Mammographic X-Ray System

According to the World Health Organization (WHO), every thirty seconds a woman is diagnosed with breast cancer. This figure reveals a significant increase in this disease and does not even take into account undiagnosed cases. Now we are at the top of the iceberg in increasing awareness and mobilizing the efforts of specialists and patients alike.

FEMINA has joined the commitment to the Prevention and Treatment of Breast Cancer. Thanks to comprehensive market analysis, the innovation and improvement of numerous factors, such as design and technology, have yielded the possibility of more effective results which goes hand in hand with the latest advances in the world electromedical panorama.

FEMINA relies on a specialized system for Screening and Diagnostic processes which facilitates all the essential tools that optimize the process. A functional and ergonomic design provides more comfortable patient positioning which is further complimented by a rapid, user-friendly operating system that streamlines the process, alleviating the discomfort that these types of exams can produce.

Furthermore, the wide variety of accessories helps to optimize the profession, offering greater dynamics and smoothness of operation.

KEY BENEFITS

Why do technicians like it?

It is a functional system that adapts to their needs, boasting ergonomics, usefulness and easy use.

Why do practitioners like it?

The system guarantees a more precise diagnosis with a consistent system performance which increases patient volume.

Why do patients like it?

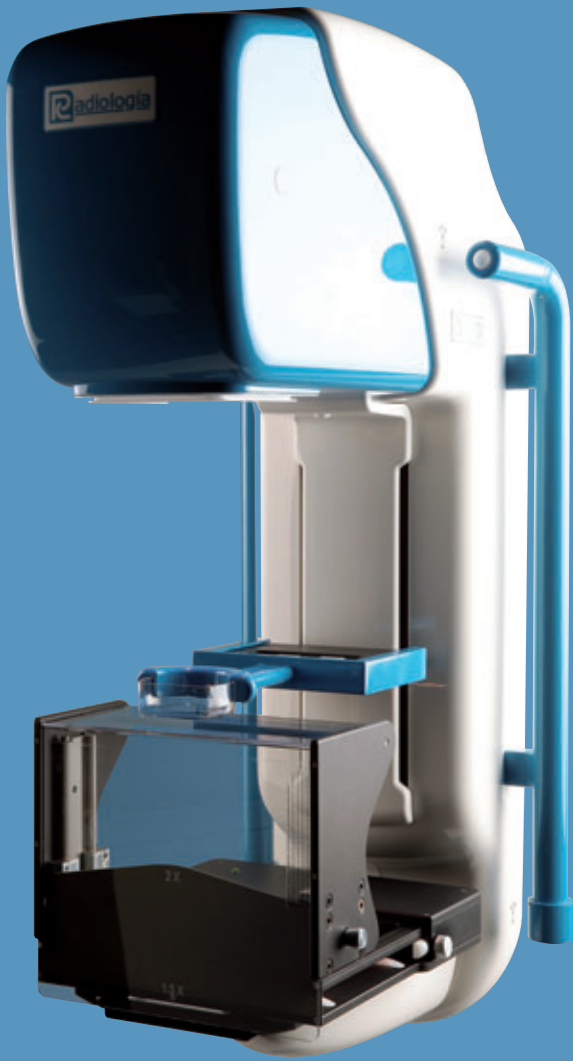
For the comfort and security of procedures, its optimization of time minimizes the patient's feelings of discomfort.



HANDLE

The ergonomic design of the handle, equipped with a rotary compression device, allows movement of the C-arm to the desired position with minimum effort.





MAGNIFICATION KIT

Enables the attaining of larger and improved image visualization thanks to a support of x1.5 and x2 with gridless detector and cassette/detector support as well as automatic area selection.



AUXILIARY DISPLAY

Strategically placed to read information on the parameters while working with the patient. Key indicators are:

- Compression force
- C-arm rotation angle
- Compression thickness



CONTROL PANEL

- LCD graphic display of 240x128 pixels
- Memory report of the last 1,300 exposures
- Statistical data: average dose, amount of exposures for each kV value, as well as exposures in each test technique
- Selectable diagnostic functions on the LCD display to check the hardware of each circuit board, specify the state of the system and for the ON/OFF function
- Control of generator parameters, such as kV, mAs, AEC and focal spots
- Static control, such as arm height and force of compression



POTTER BUCKY

Practical and lightweight mechanism that allows the rapid and easy placement and/or withdrawal of the multiple accessories.



HIGH FREQUENCY GENERATOR

The powerful and highly reliable 5 kW generator is equipped with 20 to 35 kV range with 0.5 kV resolution in both manual and automatic mode. The 10 seconds security timer ensures greater efficiency.



DIGITAL FEMINA ESPICIFICATIONS

ACQUISITION STATION

The Acquisition Station includes:

- Integrated workstation and transparent anti-X screen, for operator protection
- Complete acquisition software with:
 - Remoted control panel
 - Off-line images display and viewing
 - Local fully functional operational mode
 - Patient information local DataBase
 - Graphic manipulation tools:
 - Display protocol with ACR predefinite views
 - Current session loaded images
 - GOP® images enhanced
 - Fit to window, Zoom, Pan, Magnification lens
 - I:I, Effective size
 - AOI operations
 - DICOM W/L, High/Very High/Skin contrast
 - Linear measure
 - Histograms
 - Override ACR settings
 - Mirroring operations on ACR standard views (CC, MLO)



ACR CODE KEYBOARD

In the Femina the workflow is optimized by means of full image projections tagging with a special keyboard on top of the detector cover, and full DICOM functionality of acquisition station.

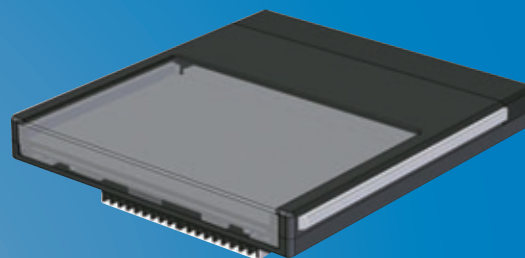
An auxiliary display shows the following information:



- C-Arm rotation angle
- Compression thickness
- Compression force
- ACR projection

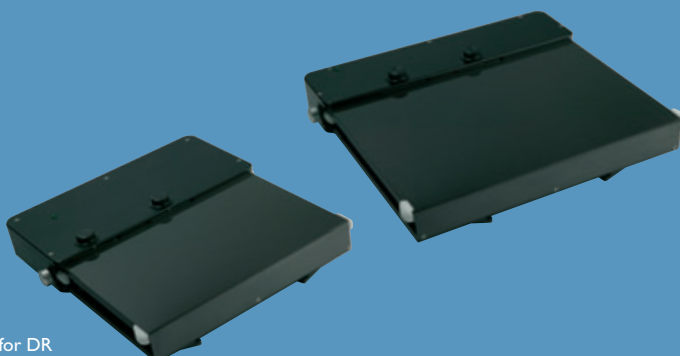
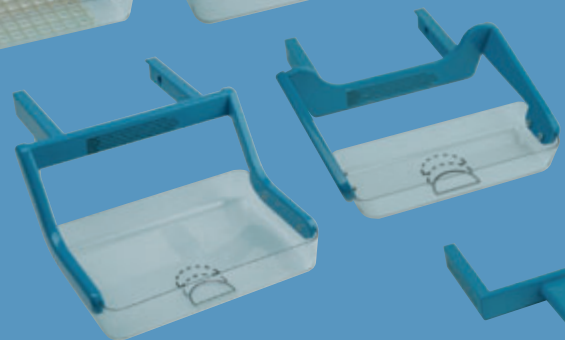
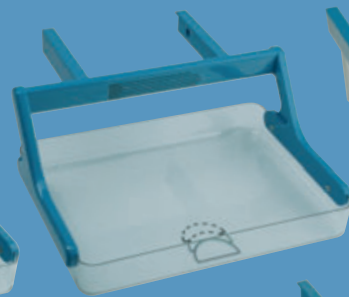
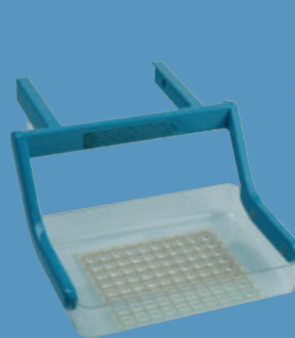
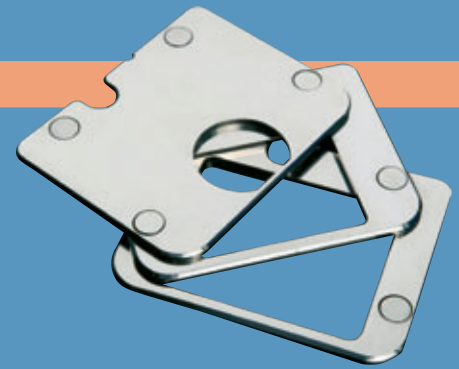
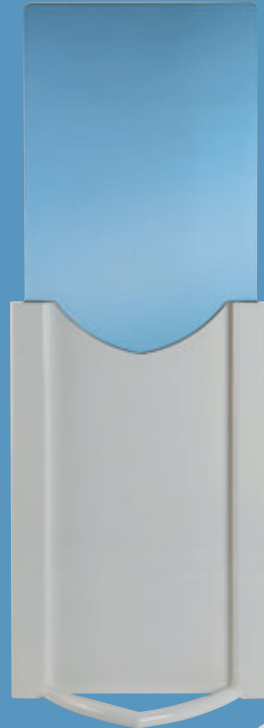
DETECTOR

The Amorphous Selenium is the most advanced technology to produce the highest signal/noise ratio and greater efficiency than any other known technologies. With the Amorphous Selenium the X-Radiation is transformed directly into electric charges without relying on an intermediate step to convert X-Ray energy to light. So the direct detection avoids a light diffusion effect that degrades image quality, produces a precise signal profile and preserves the image sharpness.



ACCESSORIES

- **Collimation plates:** 24x30 cm (9.45x11.81")
Integrated and detachable 18x24 plate (7.09x9.45")
- **Push button controls** for raising and lowering the arm
- **Patient protective screen**
- **Phantoms** for calibration
- **Advanced automatic light meter calibration**
- **Film markers**
- **Pedal assembly:** optimizing system operating time, avoiding mobility and permitting hands-free access
- **Exposure control:** practical device to be used as a smooth contact
- **Anti-Xray screen:** lead glass to guarantee maximum user security, measuring at half and full body protection
- **Compression spades:** achieving adjustments effectively with maximum compression with a triple security device: electronic, electromechanical and a rapid mechanical unblocking mechanism
- **Perforated compression spade** for two-dimensional biopsies
- **Filtroman:** motorized system for the radiomolybdenum filter with automatic commutation
- **Potter Bucky of 18x24 cm** (7.09x9.45") with a carbon grid*
- **Potter bucky of 24x30** (9.45x11.81")*
- **Cassette adaptor of 18x24** (7.09x9.45")*



*Not for DR

TECHNICAL SPECIFICATIONS

Generator:	
Power	5 kW
Voltage Range	20 to 35 kV, adjustable in steps of 0.5 kV
mAs range	1 to 640 mAs (20 to 30 kV)
Exposure time	automatic selection according to mAs, 10 seconds security timer
Automatic Exposure Control (AEC):	
Detectors	9 solid state sensors (3 electronically selected positions)
Film-screen combinations	16 film combinations, 256 independently programmable calibrations or 512 with optional Mo/Rh filters
X-ray Tube:	
X-ray tube composition	Rotating Molybdenum anode (Mo) with a 0.5mm (0.02") Beryllium window
Focal Spots	Small - 0.1 mm (0.004"), Large - 0.3 mm (0.012")
Total heat capacity of the tube	420.000 HU
Total heat capacity of the anode	300.000 HU
C-arm:	
Vertical adjustment	Motorized, from 530 mm (20.87") to 1350 mm (53.15")
Rotational range	± 180°
Source image distance (SID)	65 cm (25.59")
Film formats	18x24 cm (7.09x9.45"), 24x30 cm (9.45x11.81") (optional)
Grid	5:1 ratio, 36 lines/cm
Compression device	Motorized/Manual Compression start up with foot pedal
Compression force	Maximum compression force 150 or 200 N (adjustable on installation)
Magnification	Factor of x1.5 and x2
Detector 24x30 cm format (Optional):	
Technology	Amorphous Selenium (a-Se)
Digitalization type	Logarithmic
Depth	14 bit
Pixel Pitch	85x85mm
Resolution	2,816x3,584 pixels
Active Area	23.9x30.5 cm

FEMINA MAMMOGRAPHY CONFIGURATIONS

	BASIC	STANDARD	ADVANCED	DIGITAL
Bucky 18x24 (7.09x9.45")	YES	YES	YES	-
Extra-Bucky 24x30 (9.45x11.81")	*	*	*	-
Replacement for 24x30 + 18x24	*	*	*	-
Flat Panel Detector 24x30 + 18x24	*	*	-	YES
Tube	ANGULAR	BIANGULAR	BIANGULAR	BIANGULAR
Patient Protector	YES	YES	YES	-
Half-body Screen	*	YES	-	-
Full-body Screen	*	*	YES	YES
Magnification Kit	*	YES	YES	YES
Flat Compressor 9x21 (3.54x8.27")	*	YES	YES	YES
Displaced Compressor 10x21 (3.94x8.27")	*	*	YES	YES
Filter Ro/Mo	*	*	YES	YES
Additional Double Pedal	*	*	YES	YES
Isocentric Arm	*	*	YES	YES
Punction Blades for 2D Biopsy	*	*	*	*
Easylabel BST	*	*	*	-
Easylabel BS	*	*	*	-
Dose Printer	*	*	*	-
3D Sterotaxy	*	*	*	-
Digital Biopsy	-	-	-	*
Motorized Angulation Movement	-	-	-	*
Diagnostic Station	-	-	-	*

Specifications subject to change without prior notice

* Optional - Not applies