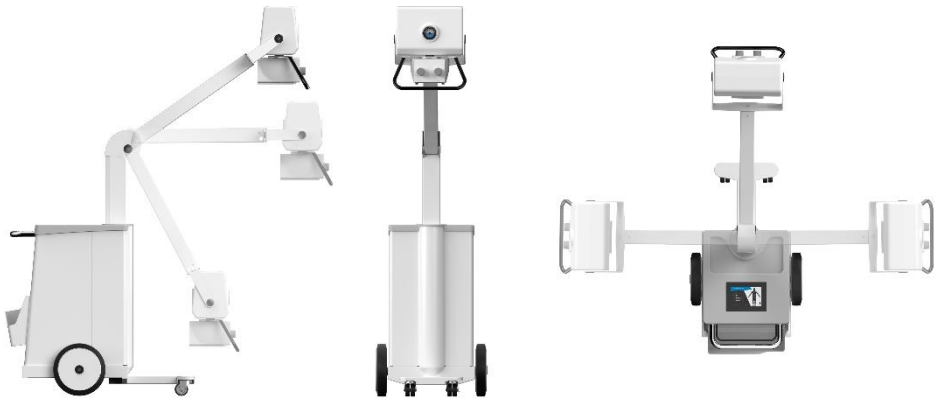
Corsix R

Analogic Mobile Unit
90° Arm Rotation Unit

Product Data



REV.0 (May 2017)

Corsix R (available power: 32 kW/16 kW /6 kW) is a mobile x-ray unit with +90°/-90° rotation of the the x-ray monoblock arm. Built with innovative design and advanced technology, Corsix R has been made to perform radiologic examinations and diagnostic investigations both in the department (Operating room, Sports Medicine, Plaster Room, Emergency Department, Paediatrics, Orthopaedics) and in the ward..

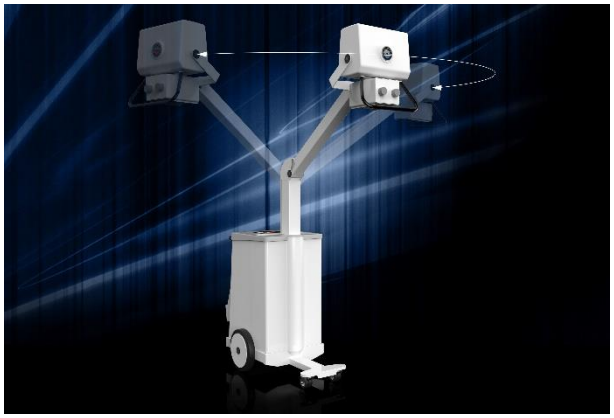
Corsix R operates with a 3-points technique (kV, mA, ms), or a 2-points technique (kV/mAs) selection generator, with the innovative function for **thickness selection** for each anatomical part, available as option.

Values and exposure time are always selected and displayed, automatically by the microprocessor, on the touch screen control panel before each exposure. Up to 900 examinations can be programmed and recalled. Programming by means of the alphanumerical keypad on the touch-screen, allows both name (ex. chest, abdomen...) and the parameters (kV and mA) to be entered

From the touch screen control panel user can also selects and displays: the collimator state, the dose value and the chosen anatomical x-ray exposure technique, stored to facilitate and shorten the setting operations requested by user.

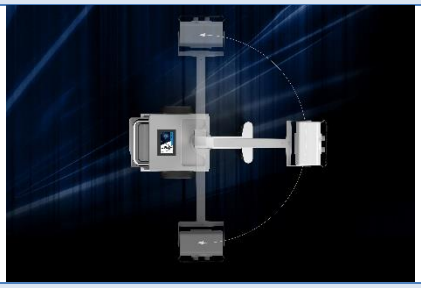
Corsix R is characterized with **a "dead man" breaking system** that with a comfortable handle both facilitates the push of the unit and its positioning. The breaking system is a "dead man" type and blocks the unit in any position, just releasing the handle.

An **automatic closedown** system (after 20 minutes of inactivity) prevents the unit from remaining in ON mode for prolonged time, so avoiding also x-ray tube focus always on.



MAIN FEATURES

THE ADVANTAGE OF THE +/- 90° ARM ROTATION



TOUCH SCREEN USER INTERFACE

Friendly user colors touch screen interface: the x-ray values (kV, mA, sec.)are always automatically displayed on the touch screen display before each exposure

MOVEMENT AND POSITIONING

Comfortable handle that both facilitates the push of the unit and its positioning

OPERATING CONDITIONS	
Operator interface	Rear-lit touch screen display for all the operating parameters and messages for any possible anomalous conditions. Managed by Microcontroller.
Radiography Exposure Control	Remote control pushbutton with double click (PREP - X-RAY)
Selectable languages	Italian, French, Spanish, English, German, etc.
Radiography with free technique	Selectable and pre-set up techniques, with the possibility of manual editing and 2-points (kV, mAs) and 3-points technique (kV, mA, s)
Preset for DAP camera	Yes (*)
Anatomic programs	Anatomical techniques programmed by colors touch screen display and selected by the name and/or anatomical area (up to 900)
Thickness selection modality (*)	
Automatic *closedown*	The unit is fitted with an automatic closedown system after 20 minutes of not use. This features prevent the unit from remaining on by mistake for long periods thereby avoiding jeopardising the x-ray tube operation (focuses always on)
Safety devices	–mA_{min} and mA_{max} safety device –Maximum X-ray tube load safety device –Maximum exposure time safety device –Temperature and Monobloc –Max kV, min kV, max I –Capacitor faulty –Starter anode faulty –Microprocessor auto-test with display of diagnostic messages

TECHNICAL SPECIFICATIONS

MECHANICAL CHARACTERISTICS

Version	**32 kW**	**16 kW**	**6 kW**
Arm rotation	± 90°		
X-ray tube rotation	± 180°		
X-ray tube rotation (z axis)	180°		
Width (parking position)	637 mm		
Length (parking position)	1370 mm		
Height (parking position)	1515 mm		
Max. focus height	2090 mm (32 kW R.A.)	2090 mm (16 kW R.A.)	2100 mm (6 kW F.A.)
Min. focus height	378 mm (32 kW R.A.)	378 mm (16 kW R.A.)	388 mm (6 kW F.A.)
Wheel diameter	300 mm		
Handling	Dead man brake		
Weight	235 kg (R.A.)	235 kg (R.A.)	205 kg (F.A.)
Cassette holder	35 x 43 cm		

RADIOLOGICAL CHARACTERISTICS

Maximum power	**32 kW**	**16 kW**	**6 kW**
Inverter frequency	40 ÷ 100 kHz		
Max ripple	<2% @ 100kV		
Monoblock type	MQD-30R	MQD-30R	MDQ-4F
mAs range	0,2 – 250 (29 steps) 0,2 – 320 (30 steps) (*)	0,2 – 250 (29 steps) 0,2 – 320 (30 steps) (*)	0,2 – 320 (30 steps)
mA range	50 - 400 mA ± 5%	50 - 400 mA ± 5%	40÷300 mA ± 5%
kV range	40 - 125 kV ± 5% (step di 1 kV)	40 - 125 kV ± 5% (step di 1 kV)	40 - 120 kV ± 5% (step di 1 kV)
Exposure time	0.002 – 2 sec.		
Total filtration	> 2.5 mm Al (@ 70 kV)		
Monoblock thermic capacity	600 kJ (800 kHU)	600 kJ (800 kHU)	350 kJ (460 kHU)
Monoblock continuous thermal dissipation	85 W		
Anode type	Rotating (R.A.)	Rotating (R.A.)	Rotating (R.A.)
Anode speed	3000 rpm	3000 rpm	3000 rpm
Anode angle	15°		
Focal spots	0,6x0,6 mm (S.F.) 1,3x1,3 mm (L.F.)	0,6x0,6 mm (S.F.) 1,3x1,3 mm (L.F.)	0,3x0,3 mm (S.F.) 0,6x0,6 mm (L.F.)
Max. power	11 kW (S.F.) – 32 kW (L.F.)	11 kW (S.F.) – 32 kW (L.F.)	3,8 kW (S.F.) –10 kW (L.F.)

ACCESSORIES

DAP (dose area meter)
Printer (*)
Potter bucky pre-set (*)
AEC pre-set(*)

(*) Optional

TECHNICAL SPECIFICATIONS

INSTALLATION DATA

Mains voltage	230 Vac single phase
Frequency	50/60 Hz
Max Power Consumption	16 A (intermittent operation) <1 A (continuous operation)

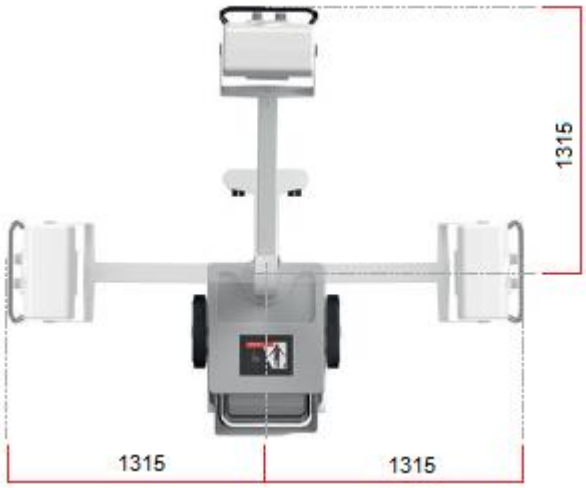
ENVIRONMENT CONDITIONS

OPERATIVE CONDITIONS	
Temperature Humidity Pressure	10°C ÷ 40°C 30% ÷ 75% 700 ÷ 1060 hPa
TRANSPORT AND STORAGE	
Temperature Humidity Pressure	0°C ÷ 40 °C 20% ÷90% 500 ÷ 1060 hPa

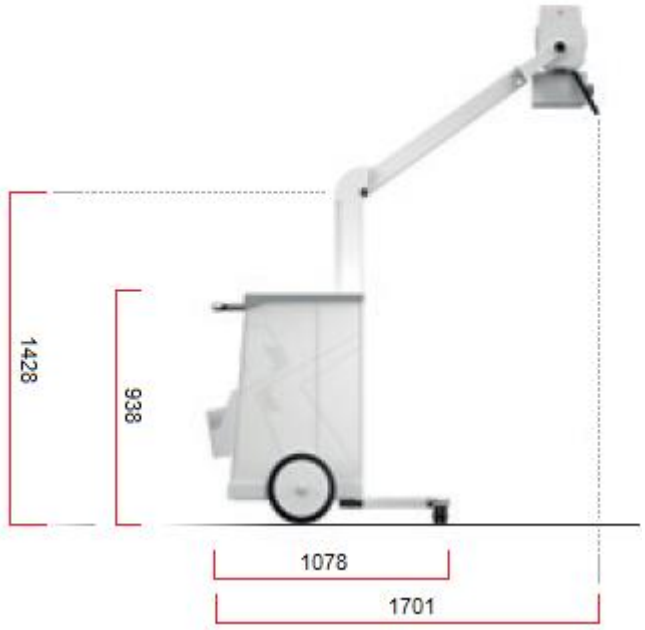
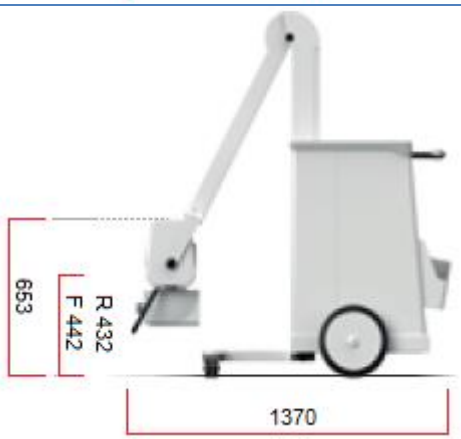
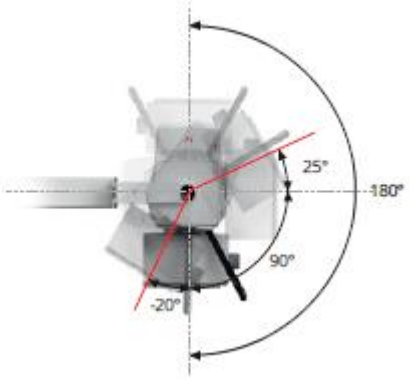
SIZE AND DIMENSIONS

FRONT VIEW

TOP VIEW



SIZE AND DIMENSIONS

LATERAL VIEW		
		
		
		

SIZE AND DIMENSIONS

LATERAL VIEW		
		
		
		

CLASSIFICATIONS, INSTALLATION AND WARRANTY

CLASSIFICATIONS

According to European Directive 93/42 CEE CORSIX R is a class II b device and it has been developed in compliance with the UNI EN ISO 9001:2008 and UNI EN ISO 13485:2012.

INSTALLATION

Only authorized technical personnel, appropriately trained by ITALRAY, can install CORSIX R. Upon request, ITALRAY Installation Office can prepare system installation layouts (including eventual construction/electrical).

WARRANTY

ITALRAY guarantees its products for 1 (one) year from the delivery date. ITALRAY can offer to its customers a wide range of service plans that will perfectly fit all needs and preferences.