

**MDA**

*Management Development Apparatus*

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# Portable X-Ray Unit 6 kW (PXRU)



**PU** is controlled by a microprocessor and represent the latest progress of the traditional mobile unit for radiological research.

The unit can be used in any field of mobile diagnostic like for example: surgery, hospitals and particularly in difficult conditions like field hospital , examination at home etc.

In fact , thanks to its light weight, large use of aluminum in manufacturing and its versatility, **PU** can be carried and disassembled in several parts easily. These parts can be put in proper suitcase which have been realized exactly to hold anything very well and safety.

Moreover **PU** shows a button which allow you to choose the power (3/6 kW) and connect the unit to any electric system 220 V single phase.

Another exclusive characteristic of our apparatus is the following: once **PU** is connected to the cabinet (by a simple operation) **PU** can be used like a traditional mobile unit.

Therefore **PU** is the unit which make the other systems obsolete.



The control table that integrate the inverter, allow you to operate any control easily, in fact the programs are anatomic automatic and stored by operator, the RX control is controlled by a button with double release and extensible cable.

Thanks to its really high frequency (100 kHz) the unit offers an excellent repetitiveness of data selected and very good results which allow the operator to do examinations with a minimum time of exposure according to the modern diagnostic.

The special stand is demountable and very light because it is manufactured in aluminum and can be moved by a system of spinning bearing and braking wheels. The vertical movement of monoblock can be easily controlled by a motorized control. The rotation of radiogene monoblock around its own axis allow you to position it in different ways.

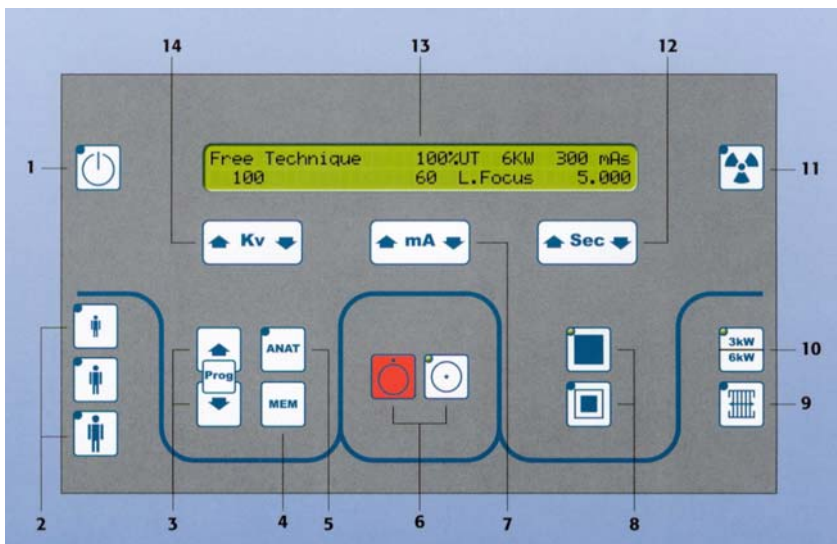
The monoblock is well balanced and doesn't need any knob that block its several movements, in fact there is a light beam that control the field irradiated and whose light is switched off automatically.

Moreover the light beam has inside a retractable tape meter which measure the focus film distance.

The type with cabinet shows a box inside for 4 radiographic cassette, besides the box for the connection cable to electric system.

The joining of two parts (stand/cabinet) is simple and need the use of three knobs.

Moreover it is possible to install the special radiographic cassette holders which allow you to do any projection requested.



1. Luminous signal for preparation to radiography ray phase
2. Button for settings for thin , normal, stocky patient
3. Buttons for selecting anatomical regions
4. Button for open/save the data in to the memory
5. Button for selecting automatic/manual program
6. ON-OFF buttons
7. Button controlling radiography mA
8. Buttons for selecting focal length
9. Button for engaging - disengaging potter bucky selected
10. Button for selecting power
11. Luminous signal for passage of radiography rays
12. Button controlling radiography timing
13. Luminous alphabetical/numerical display
14. Button controlling radiography Kv

|   |   |
|---|---|
| <b>MONOBLOCK</b>  |   |
| Power   | 6Kw - (100KHz)                          |
| Type of anode   | Stationary                              |
| Dimension of focus  | 0.6 x 1.5mm.                            |
| Current in graphy   | 20mA a 100kv                            |
|   | 50mA a 100kv                            |
|   | 60mA a 100kv                            |
|   | 80mA a 80kv                             |
|   | 100mA a 60Kv                            |
| <b>CONTROL PANEL</b>  |   |
| KV Range  | 40 + 100 KV (step di 1KV)               |
| mA Range  | 10 + 100 mA in 8 step                   |
| mAs Range   | 0.02 + 500 mAs in 143 step              |
| Exposure time   | from 0,002 to 5 sec in 32 step          |
| Free choice of focal spot   | Small focus – Large focus               |
| Possibility of choosing the power   | 3 – 6 KW                                |
| Selection of anatomic automatical technique                               | divided for 3/6 KW                      |
| RX control with double stepping and extensible cable                      |   |
| Graphy with free technique mA – Kv – Sec                                  |   |
| Graphy with 2 point technique Kv – mAs                                    |   |
| mA safety   |   |
| Kv safety   |   |
| Safety device against tube overload                                       |   |
| Maximum safety load of exposure   |   |
| Safety thermic unit of monoblock  |   |
| Temperature and thermal unit counter                                      |   |
| Potter Bucky control  |   |
| Body shapes selection   |   |
| Safety KW request according to the power supply available                 |   |
| Automatic switching off of the unit after 15 minutes of no load operating |   |
| <b>STAND</b>  |   |
| Collimator with automatic light   |   |
| Focus film distance indication  | With tape measure retractable           |
| Moviment of vertical monoblock  | Motorized with automatic limit switches |
| Single phase power supply   | 230 Vac - 50/60 HZ                      |
| Maximum current absorption  | 35 A                                    |
| Line compensation   | Automatic                               |

