

## X-Ray Therapy

### X-ray therapy systems T 160, T 200, T 300

We have designed a therapy unit family to meet today's clinical requirements. In principle they have the same constructional features, but differences in the maximal applicable voltage and so in the variety of tubes.

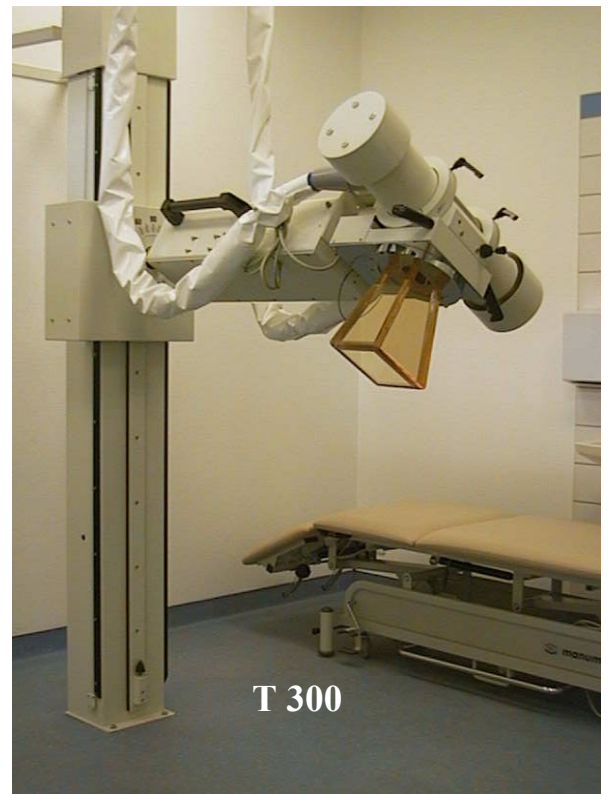
The devices T 160, T 200 and T 300 can be used for superficial and orthovoltage treatments in a range from 15 kV to 300 kV. The high tension and the tube current output of the tube can be combined with different clinical filters to a great number of HVL combinations. That is the base of a wide range of clinical options.

The therapy unit is controlled by a patient verification system that has been designed specially for the X-ray therapy unit family of superficial and orthovoltage X-ray therapy systems.

The intuitive interface enables quick and easy access to all patient and treatment history data. Treatment fields can be created quickly and simply with the help of many input assistance reducing the time required for data entry.

A record of each treatment is stored under the patient's unique identification.

For efficient service and maintenance, built-in diagnostics are provided locally or via remote access. Sets of previous operation parameters and events Plus warm up cycles are stored for historical analysis.



## Technical Data

	<b>T-300</b>	<b>T-200</b>	<b>T-160</b>
Tube voltage	25 .... 300 kV	20 .... 200 kV	15 .... 150 kV
max. tube current [mA]	20	20	20
max. tube power [W]	3000	3000	3000
cooler, two circles	oil – water	water-water	water-water
number of kV/mA/filter combinations	20	20	20
Max. applicators possible	15	15	15
Applicator for warm up	10 Pb	10 Pb	10 Pb
Number of free selectable filers	7	7	7
Power connection	3~PEN 400 V AC ± 10% 25 AT	3~PEN 400 V AC ± 10% 25 AT	3~PEN 400 V AC ± 10% 25 AT
<b>High Voltage Generator</b>			
Maximum output voltage	300 kV	200 kV	160 kV
Maximum output power	3 kW	3 kW	3 kW
High voltage ripple	6 V/mA	6 V/mA	6 V/mA
dimensions/weight (cathode)	350x800x705 mm 170 kg	350x800x705 mm 170 kg	350x800x705 mm 170 kg
Reproducibility kV/mA	± 0.01%	± 0.01%	± 0.01%
<b>Cabin</b>			
Dimensions/weight (empty)	120 x 220 x 80 cm 215 kg	120 x 200 x 80 cm 203 kg	120 x 200 x 80 cm 203 kg

	<b>T-300</b>	<b>T-200</b>	<b>T-160</b>
Type of x-ray tube	<b>MXR 321</b>	<b>MXR 226</b>	<b>MXR 161</b>
			
Focal spot	d = 8 mm	d = 7.5 mm	d= 7.5mm
Target material	W	W	W
Target angle	30 °	30 °	30 °
Radiation coverage	40 °	40 °	40 °
Anode current at max. tube voltage	10 mA	13 mA	19 mA
Tube voltage max.	320 kV	225 kV	160 kV
Tube power	3200 W	3000 W	3000 W
Filament current, max.	4.6 A	4.2 A	4.2 A
Filament voltage, typical	6.4 V	5.5 V	5.5 V
Cooling medium flow, min.	Oil	Water	Water
Coolant pressure max	6 bar	6 bar	6 bar
Coolant temperature at inlet, max.	50°C	35°C	35°C
Inherent filtration, max.	3.0 mm Be	0.8 ± 0.1 mm Be	0.8 ± 0.1 mm Be
Leakage radiation, max.	10 mSv/h	10 mSv/h	1 mSv/h
Weight	40 kg	11 kg	8 kg
Terminal type	R24	R24	R24

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