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PHILIPS

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Philips Medical Systems

OPTIMUS 50/65/80

DATA



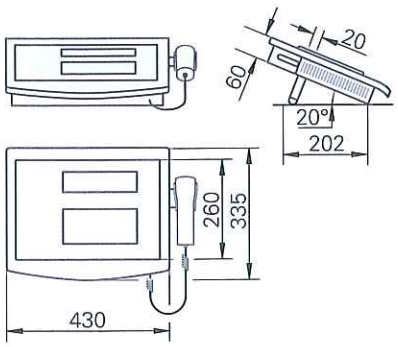
Applications	*OPTIMUS 50*	*OPTIMUS 65*	*OPTIMUS 80*
Techniques	You have a choice of three radiography X-ray generators with a performance of 50 kW, 65 kW and 80 kW, respectively. The range of applications encompass the entire field of radiography and tomography.		
Workstations	Up to eight radiography workstations.		
Vario-Focus (Option)			
New technique	Variable optical focal spot (Vario-Focus) is a new technique which creates several focal spots from the small and the large spots of Philips X-ray tubes with superimposed focal spots. The sizes of these generated focal spots lie between those of the small and the large focal spot. The Vario-Focus and its output performance can thus be optimally adapted to the exposure technique.		
Performance features of the Vario-Focus technique	– Optimum image sharpness – Focal spot size adapted to the characteristics of the technique. – Optimum radiation geometry for imaging. – Evenly distributed load on the focal spots for a longer tube working life. – Application-oriented focal spots have been assigned to APR programs.		
Power Supply			
Mains voltage	400 V, ±10% (380 V), 50 Hz/60 Hz, 3-phase		
Max. mains resistance at 400 V	0.3 Ω	0.2 Ω	0.2 Ω
Fuses	35 A (slow)	50 A (slow)	50 A (slow)
Mains coupling transformer	Matching transformer for mains ≠400 V (380 V), 50 Hz/60 Hz		
Output Rating/Nominal Output			
Nominal values	650 mA at 70 kV 630 mA at 80 kV 500 mA at 100 kV 400 mA at 125 kV 320 mA at 150 kV	900 mA at 70 kV 800 mA at 80 kV 650 mA at 100 kV 500 mA at 125 kV 400 mA at 150 kV	1100 mA at 70 kV 1000 mA at 80 kV 800 mA at 100 kV 630 mA at 125 kV 500 mA at 150 kV
High Voltage Generator			
High voltage generator	Direct current equivalent high voltage is generated by converters.		
Nominal output	50 kW	65 kW	80 kW
Max. tube voltage	150 kV	150 kV	150 kV
Max. tube current	650 mA	900 mA	1100 mA
Max. switching frequencies	Up to 12 frames per second		
Number of X-ray tubes	Two double focus tubes with four different focal spots can be operated. Mixed SRO and RO tube assemblies can be connected.		
Exposure Techniques (APR or user defined)			
One-factor technique	kV, continuously falling load, AMPLIMAT		
Two-factor technique	kV, mA, constant load, AMPLIMAT		
Two-factor technique	kV, mAs, constant load		
Three-factor technique	kV, mA, s, constant load		
Three-factor technique	kV, mAs, s, constant load		
Automatic Exposure Control (AEC)	Up to five AMPLIMAT ionization chambers or other measuring instruments.		

Setting Ranges	OPTIMUS 50	OPTIMUS 65	OPTIMUS 80
Tube voltage	40 kV to 150 kV with a max. of 111 settings. The voltage of tubes having a lower maximum can be limited correspondingly.		
Exposure techniques without AEC			
– Tube current	10 mA to 650 mA	10 mA to 900 mA	10 mA to 1100 mA
– mAs product	0.5 mAs to 850 mAs		
– Increments	Select the tube current or the mAs product corresponding to the programmed gradation (6.25-%-, 12.5-%- or 25-%-steps).		
– Exposure times	– kV-mA-s technique: Select the times in steps of 1 ms to 6 s (16 s [1.])		
	– kV-mAs technique: Generator automatically selects time (1 ms to 6 s).		
Exposure techniques with AEC			
– Switching time	1 ms to 4 s (up to 6 s using TDC). The mAs and ms values are shown on the display screen of the generator console after the exposure.		
– mAs product	0.5 mAs to 800 mAs[2.]		
– Cut-off dose	0.5 µGy to 100 µGy		
Film-screen combinations	Five different film-screen combinations out of a library of approx. 100 film and screen data can be entered. Our service organization can integrate values for newly developed combinations at any time. This makes the OPTIMUS an even better investment for the future.		
Tomography (Option)			
Automatic entry of tomography times	To optimize your work, you may select tomography functions such as tomographic figure and angle at the radiography workstation. You can thus work close to the patient, with a good overview of all the functions. A maximum of two tomographic units can be connected to the OPTIMUS.		
– User defined tomography	kV and mA can be selected at the generator console.		
– APR technique	The defined kV and mA values and the tomographic figure and the corresponding tomographic time are controlled by the APR programs.		
Tomographic Density Control (TDC)	The TDC automatically regulates the dose in timed tomographic exposures, yielding images with an optimum medium density for the entire tomographic time even when object cross sections or absorption rates vary.		
Operation			
Easy operation	You can enter the exposure values quickly and accurately using only a few function keys and predefined settings. The various APR programs are shown on two large displays. You can overwrite the values of these APR programs and then store them or reselect the original values.		
Selecting the APR programs	A maximum of 1024 APR programs can be distributed among the eight available radiography workstations. A clearly structured menu system helps you to select the program you want to use without any waste of time.		
A tailor-made generator	Philips will program the OPTIMUS generator according to your specifications. The type and number of your radiography workstations, standard and user defined APR programs, desired film-screen combinations, and language can be programmed. Modifications are possible at any time.		
Switching from kV, mA, s to kV, mAs, s	The OPTIMUS generator offers you two different three-factor techniques. You only need to press a button to decide whether in addition to kV and s you want to choose mA or the mAs product.		

[1.] For special application techniques.
[2.] The upper limit of 800 mAs can be lowered to 600 mAs.

Dimensions And Weights

Low profile control desk

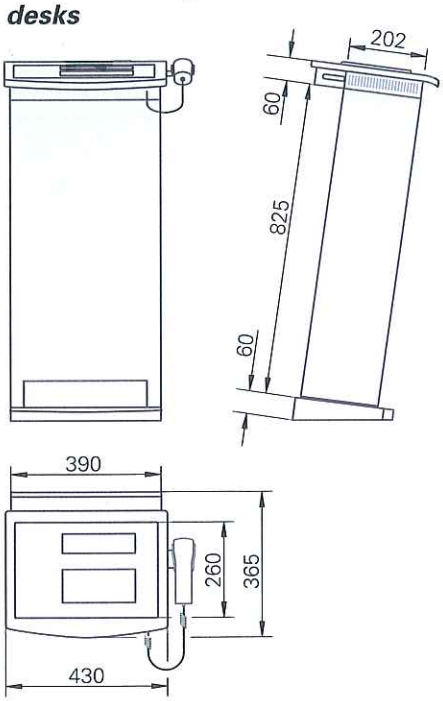


Scale 1 : 20
Dimensions in mm

Weight: 4 kg
Heat emission: max. 40 W

The low profile control desk can also be attached to a wall with a simple wall-mounting support.

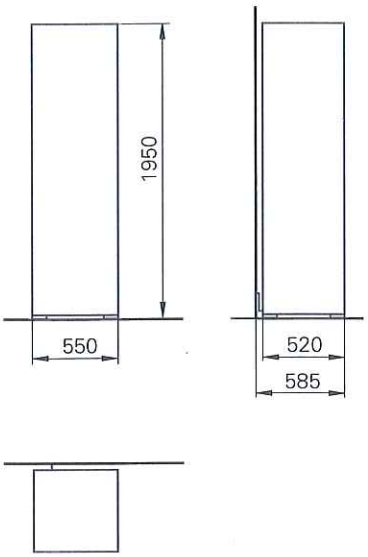
Stand for low profile control desks



Scale 1 : 20
Dimensions in mm

Weight, including
low profile control desk: 24 kg

Control cabinet with integrated high voltage generator



Scale 1 : 50
Dimensions in mm

Weight: 210 kg
Heat emission: 500 W

Ambient conditions

Ambient temperature	10 °C to 40 °C
Relative humidity	15 % to 90 %, no condensation
Rel. atmospheric pressure	50 kPa to 110 kPa
Emitted noise	max. 40 dBA, averaged over one hour
Ventilation air supply	1 l/s

Note:
The technical data are in accordance with IEC stipulations.

Equipment is subject to change without notice. All changes will be in compliance with regulations governing manufacture of medical equipment. Printed in Germany. 4512 158 05471/742 H – 1994-03

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