

For use in human medicine

Order No. AP2800

Powerful high-frequency X-ray unit **Gierth QP 400**

The Gierth QP 400 X-ray unit was specially designed for outdoor medical use and not only allows X-raying of extremities, but also all body stem images, including thorax, spine, abdomen and pelvis. The 6 kW HF generator with its unsurpassed performance is very easy to service.

The feasible switching times are comparable with exposure times of large mobile and stationary systems. A particularly bright light field in the collimator ensures optimum lighting conditions for patient positioning even outdoors. One serial interface for connecting to a digital system is also available.

- Monoblock X-ray unit with high-frequency technology
- Guarantees a continuously high shot frequency at maximum performance (100 mA to 50 kV)
- Very high shot frequency at a high output performance of the X-ray tube assembly – produces, for instance, up to 5 images per minute in lung screenings
- Control display including 10 memory keys



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Scope of delivery

- Portable monoblock X-ray unit based on high frequency technology
- 2-stage hand trigger switch

Short description

- 6 kW HF monoblock generator with unsurpassed performance → very service friendly
- 40 to 120 kV
- Guarantees a continuously high shot frequency at maximum performance (100 mA to 50 kV)
- Feasible cycle times are comparable to exposure times of large mobile or stationary systems
- Tube focus 1.2 x 1.2 mm
- Duty cycle at 60 : 1 → very high shot frequency at a high output performance of the X-ray tube assembly (up to 150 mAs, optional 220 mAs) – produces, for instance, up to 5 images per minute in lung screenings
- Interface for bidirectional communication between console station and generator for transmission of KV and mAs/sec values etc.
- Optional integrated DAP meter
- Particularly bright light field in the collimator → guarantees optimal light conditions when positioning patients, even in the field
- Additional serial line laser available for X-ray tables
- Control display including
- 10 memory keys
- Digital display and setting of mAs/sec., kV
- LED display „X-RAY“, „READY“, „ERROR“
- Rotatable collimator
- Collimator light can be switched on via hand switch
- Acoustic and optical signal on release
- Tape measure for film focus distance
- Aluminium casing
- Slot system for compensation filter
- Guide rail for compensation filter



The light field can be freely positioned with the rotatable collimator. This is a significant advantage when working on immobile, bedridden patients.



Well thought-out details, such as the tape measure for measuring the film focus distance, support the user.



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Technical Specifications

Construction	Monoblock X-ray unit, high frequency technology (full bridge inverter system)
Output power	6 kW at 100 kV
Output in 2 kV steps	40 to 50 kV = 100 mA (max.) 52 to 60 kV = 80 mA (max.) 62 to 80 kV = 70 mA (max.) 82 to 100 kV = 60 mA (max.) 102 to 120 kV = 50 mA (max.)
X-ray tube	stationary anode
Focus	1.2 mm
mAs	0.4 - 143 mAs
Total filtration	3.64 mm Al (incl. collimator)
Inverter frequency	85 kHz
Line adjustment	fully automatic (Adjustment of the existing value from the voltage range 210 – 260 V to the "optimum value" for the basic parameters of the unit [230 – 240 V]. A warning light at the tube head indicates insufficient voltage.)
Line voltage	AC single phase 210 - 260 V; 50/60 Hz; 16 A
Overload protection	for high frequency transformer and X-ray tube
Collimator	100 Lux at FFD 100 cm
Dual laser pointer	2 laser diodes 8-30 V DC with protection class 1M
DAP equipment	ionisation chamber, display on the control panel (optional)
Remote control	layout similar to the control panel (without DAP display)
Serial interface	for connection to the digital radiography system



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for more details

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