

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



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

## 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

<b>Construction</b>	Monoblock X-ray unit, high frequency technology (full bridge inverter system)
<b>Output power</b>	6 kW at 100 kV
<b>Output in 2 kV steps</b>	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.)
<b>X-ray tube</b>	stationary anode
<b>Focus</b>	1.2 mm
<b>mAs</b>	0.4 - 143 mAs
<b>Total filtration</b>	3.64 mm Al (incl. collimator)
<b>Inverter frequency</b>	85 kHz
<b>Line adjustment</b>	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.)
<b>Line voltage</b>	AC single phase 210 - 260 V; 50/60 Hz; 16 A
<b>Overload protection</b>	for high frequency transformer and X-ray tube
<b>Collimator</b>	100 Lux at FFD 100 cm
<b>Dual laser pointer</b>	2 laser diodes 8-30 V DC with protection class 1M
<b>DAP equipment</b>	ionisation chamber, display on the control panel (optional)
<b>Remote control</b>	layout similar to the control panel (without DAP display)
<b>Serial interface</b>	for connection to the digital radiography system



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for more details

### Specifications subject to revision without notice

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