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
Powerful high-frequency X-ray unit
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Technical Specifications

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<th>Construction</th>
<th>Monoblock X-ray unit, high frequency technology (full bridge inverter system)</th>
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<td>Output power</td>
<td>6 kW at 100 kV</td>
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| 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                              |

Please visit [www.or-technology.com](http://www.or-technology.com) for more details

Specifications subject to revision without notice

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OR Technology (Oehm und Rehbein GmbH), 18057 Rostock, Germany, Neptunallee 7c  
Info-Hotline: +49 381 36 600 600, info@or-technology.com, www.or-technology.com