



G100 NL-50F DR

Radiographic 50 kW high frequency generator

Product Data

Radiological features

| Naulological Teatures | | | |
|---------------------------|---|--|--|
| Application | Radiography | | |
| Power | 50 kW | | |
| High Voltage Frequency | 50 kHz | | |
| Exposure time range | 1 ÷ 10000 ms | | |
| ms accuracy | \pm (5% + 0.2 ms) | | |
| kV range | 40 ÷ 150 kV in 1 kV steps | | |
| kV accuracy | ± 5% | | |
| mA range | 10 ÷ 630 mA in 1 mA steps | | |
| mA accuracy | \leq ± (5%) (mA > 25 mA, ms > 5) | | |
| | $\leq \pm (10\% + 1 \text{ mA}) \text{ (mA } \leq 25 \text{ mA)}$ | | |
| | ≤ ± 20% (ms ≤ 5) | | |
| mAs range | 0.5 ÷ 630 mAs in 1 mAs steps | | |
| mAs accuracy | \pm (5% + 0.2 mAs) | | |
| Working places | Up to 3 | | |
| N° tubes | 1 | | |
| Rotating anode speed | Interface for low speed tubes. | | |
| Technique selection | 3 points kV, mA, ms) | | |
| | 2 points (kV, mAs) | | |
| | 2 points with AEC (kV, mA) in option | | |
| Anatomical programs (APR) | Defined through Villa's digital image acquisition system | | |
| Safeties | Overload, Overvoltage, Overcurrent, Anode temperature, Anode ro- | | |
| | tation | | |
| User interface | Mini console with two pushbuttons for generator switch on/off. | | |
| | Selection of exam parameters through Villa's digital image acquisi- | | |
| | tion system | | |
| Focus selection | Manual or automatic selection of 2 focal spots | | |
| Anode heat calculator | Real time calculation and display of anode heat content (HU%) | | |





AEC (option)

| AEC technique | 2 points | |
|-------------------------------|---|--|
| Measuring chamber | 3 fields | |
| Screen-film speed combination | 3 choices: high, middle, low (200 ÷ 1200) | |
| Film darkening adjustment | -8 ÷ +8 | |
| Number of receptors | Up to 2 | |

Accessories

| X-ray handswitch | Supplied as standard | |
|------------------|----------------------|--|
| DAP meter | Option | |

Electrical features

| Power supply voltage | 380/400 Vac ± 10% three phase | | |
|-----------------------------|-------------------------------|--|--|
| Frequency | 50/60 Hz | | |
| Line impedance | ≤ 0.17 Ω @ 380 Vac | | |
| Line voltage compensation | Automatic | | |
| Momentary current | 130 A @ 380 Vac | | |
| Standby current | ≤1A | | |
| Momentary power consumption | 72 kVA | | |

Dimensions and weights

| Item | Dimensions | Weight |
|--------------------|----------------------------|--------|
| Mini console | 144 x 80 x 24 mm (WxDxH) | < 1 kg |
| Electrical cabinet | 600 x 600 x 800 mm (WxDxH) | 110 kg |
| HT transformer | Integrated in the cabinet | |

Environmental conditions

| Operating conditions | Temperature: | from +10° to +40° Celsius (50° F to 104° F) |
|------------------------------|--------------|--|
| | Humidity: | from 30% to 75% |
| | Pressure: | from 700 to 1060 hPa |
| Conditions for transport and | Temperature: | from -35° to +75° Celsius (-31° F to 158° F) |
| storage | Humidity: | from 10% to 95% non condensing |
| | Pressure: | from 500 to 1060 hPa |

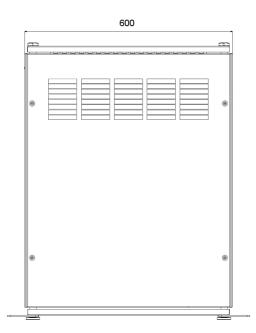
Standards and Regulations

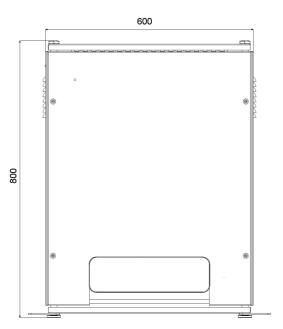






Dimensions in mm





Electrical cabinet



Mini console

Note: Products are continuously under review in the light of technical advancement. The actual specification may therefore be subject to improvement or modification without notice.

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