AEC chambers

The AEC chamber is an essential component in X-ray systems for optimal image quality, radiation safety, and cost efficiency. It automatically adjusts the exposure parameters to ensure patient safety and image quality. The AEC chamber is designed to be connected to the X-ray tube and the image receptor. It measures the radiation dose and adjusts the exposure time accordingly.

Specifications:

- Operating voltage: 100 to 240 VAC
- Operating frequency: 50 to 60 Hz
- Output current: 0 to 20 mA
- Resolution: 0.01 mA
- Accuracy: ±1% of reading
- Response time: <1 ms
- Operating life: >10 years

Selection of AEC chambers with digital interface:

- 151 00 18
- 145 00 44
- 143 00 06
- 141 00 20
- 140 00 44

Selection of ramp modules for Sub-D type AEC chambers:

- Differential input ±10 V
- Output range ±10 V
- Power consumption: max. 2 W
- Digital resolution: selectable

Supply voltage AEC chamber: ±(12 ... 16) V DC

DAP and Air Kerma Measurement

VacuDAP is a DAP meter that measures the incident air kerma and the kerma area product. It is used in X-ray systems to control the radiation dose exposure. The DAP meter is equipped with an external or integrated display, allowing for real-time monitoring of the radiation dose exposure.

Specifications:

- Operating voltage: 90 to 240 VAC
- Operating frequency: 50 to 60 Hz
- Input current: 0 to 20 mA
- Resolution: 0.01 mA
- Accuracy: ±1% of reading
- Response time: <1 ms
- Operating life: >10 years

Configuration:

- Nearly all VacuDAP models are equipped with a DAP meter. The design and specifications are equivalent to VacuTec’s standard DAP meters.

Combined DAP/Air Kerma meter (VacuDAP Duo):

- Features a DAP meter and an air kerma meter.
- Measures the incident air kerma and the kerma area product.
- Equipped with an external or integrated display.
- Suitable for use in X-ray systems, ensuring radiation safety and cost efficiency.

Configuration:

- Nearly all VacuDAP models are equipped with a combined DAP/Air Kerma meter. The design and specifications are equivalent to VacuTec’s standard models.

Conclusion:

VacuTec provides a wide range of DAP meters with an external or integrated display, allowing for real-time monitoring of the radiation dose exposure. The DAP meters are equipped with a DAP channel and an air kerma channel, providing comprehensive radiation monitoring and control. The DAP meters are designed to be used in X-ray systems to ensure radiation safety and cost efficiency.
VacuDAP

Overview Models:
- VacuDAP standard
- VacuDAP Duo
- VacuDAP twin
- VacuDAP Fluoro
- VacuDAP compact

VacuDAP - C with display
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General technical specifications:
- Rated range of use: (20 ... 30 VDC, 10 ... 30 VDC)
- Dimensions: (100 x 48 x 25) mm, (158 x 140 x 18) mm, (100 x 105 x 18) mm
- Measuring range: (0.03 ... 99 999 999) mGy
- Bluetooth communication between VacuDAP - C and display
- Measurement of DAP, DAP rate, irradiation time
- One line display
- Measuring range (2 ... 12 000) mGy/min
- Chamber power options
- Dimensions: (185 x 140 x 18) mm, (182 x 164 x 18) mm, (209 x 164 x 18) mm
- Vacuum DAP - C with display
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- Vacuum DAP - C with display

Dimensions:
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Additional equipment and components:
- Battery for VacuDAP - C: use with VacuDAP - C. The battery pack is also best suited for first complete stand alone DAP system
- Rated range of use: (20 ... 30 VDC, 10 ... 30 VDC)
- Dimensions: (182 x 164 x 18) mm, (185 x 140 x 18) mm, (158 x 140 x 18) mm
- Measuring range: (0.03 ... 99 999 999) mGy
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