





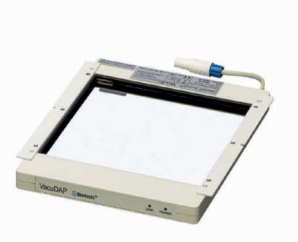



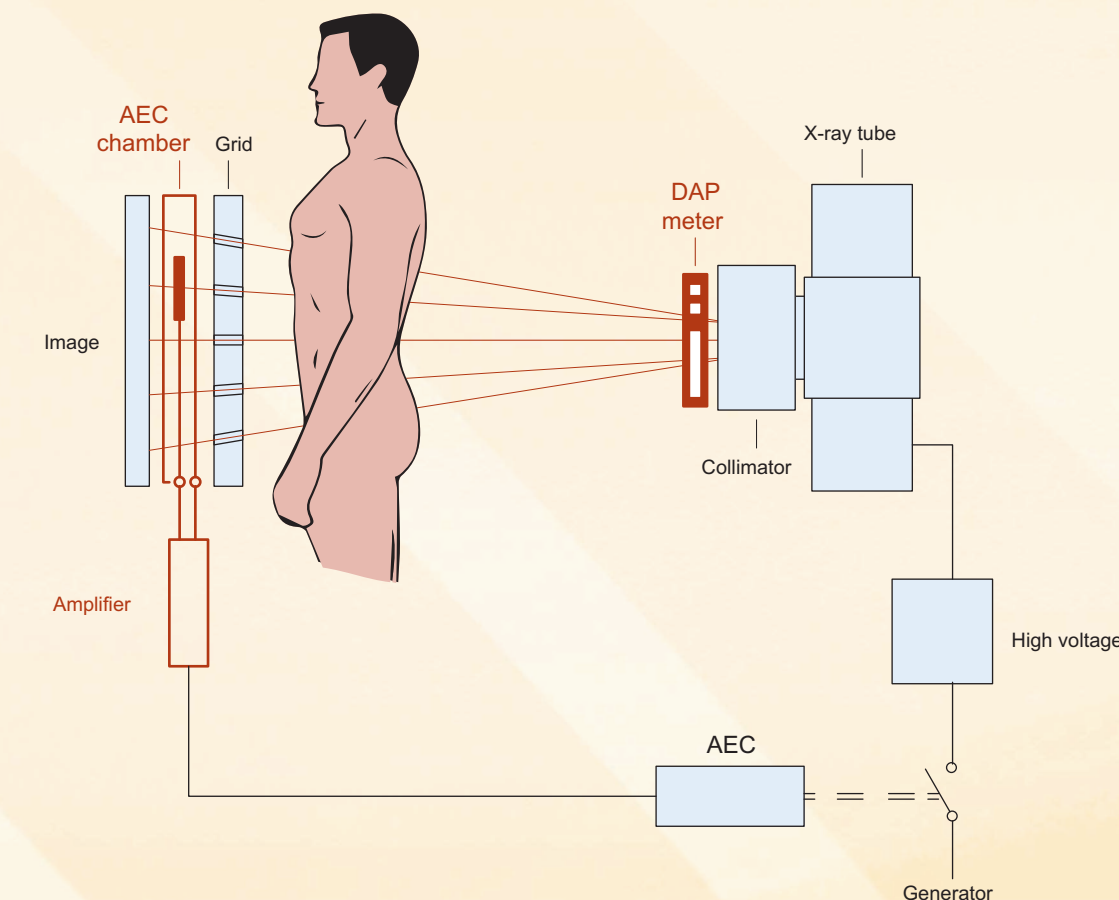
VacuDAP

Overview Models:

VacuDAP standard	VacuDAP fluoro	VacuDAP twin	VacuDAP Bluetooth®	VacuDAP compact
				
one line display	two line display (DAP/DAP rate)	display for two DAP chambers	Bluetooth communication between chamber and display	integrated display
display provides RS232 interface to connect PC or printer				interface to printer or secondary display
complete system powered through display unit by power supply (110 ... 240) VAC			*chamber power options display powered by power supply	
measurement of DAP, DAP rate, irradiation time				
REF 158(6) 00 15 + REF 943 00 01 + REF 943 00 40 + REF 950 00 57(8, 9)	REF 158(6) 00 15 + REF 943 00 04 + REF 943 00 40 + REF 950 00 57(8, 9)	REF 158(6) 00 15 + REF 943 00 02 + REF 943 00 40 + REF 950 00 57(8, 9)	REF 158(6) 00 14 + REF 943 00 06 + chamber power options + REF 950 00 57(8, 9)	REF 158(6) 00 05 + *chamber power options

VacuDAP - OEM	VacuDAP Bluetooth®	VacuDAP 2004 OEM
		
RS485 interface, optional with RS485/232 or CAN converter	Bluetooth interface	pulse interface RS422
(10 ... 30) VDC	*chamber power options	(10 ... 24) VDC
measurement of DAP, DAP rate, irradiation time		measurement of DAP, DAP rate
REF 158(6) 00 15	REF 158(6) 00 14	REF 157 00 15, 156 00 10

*chamber power options:
 - (10 ... 30 V)
 - from collimator (e.g. through AC/DC converter)
 - by battery for VacuDAP
 - by plug in power supply



Dimensions:




	outer dimension [mm]	active area [mm]	transparent yes/no	REF
rectangular VacuDAP/ VacuDAP duo	158 x 140 x 18	123 x 123	yes	156(456) 00 15
	185 x 140 x 18	123 x 123	yes	156 00 05(14)
	182 x 164 x 18	147 x 147	yes	158(458) 00 15
	209 x 164 x 18	147 x 147	yes	158 00 05(14)
circular chambers VacuDAP - C	Ø 60	Ø 44	no	159 00 xy
	Ø 90	Ø 68	yes	159 00 01
	Ø 100	Ø 72	no	159 00 xy
	Ø 157	Ø 100	yes	159 00 13
rectangular chambers VacuDAP - C	100 x 105 x 18	86 x 86	yes	160 00 03
	158 x 140 x 18	123 x 123	yes	160 00 16
	182 x 164 x 18	147 x 147	yes	160 00 18
	290 x 31 x 20	242 x 8	no	160 00 01
display units	169 x 94 x 37			943 00 xy
electronics for VacuDAP - C	80 x 50 x 17			922 00 xy

Rated range of use (Does not apply to VacuDAP-C, VacuDAP-C duo and VacuDAP 2004 OEM):

		VacuDAP	VacuDAP duo
DAP	Digital resolution	0.01 µGy·m²	
	Measuring range	0.1 ... 99 999 999 µGy·m²	
DAP rate	Digital resolution	0.6 µGy·m²/min	
	Measuring range	6 ... 2 200 000 µGy·m²/min	
Dose	Digital resolution**	0.003 mGy	
	Measuring range**	(0.03 ... 99 999 999) mGy	
Dose rate	Digital resolution**	0.2 mGy/min	
	Measuring range**	(2 ... 12 000) mGy/min	





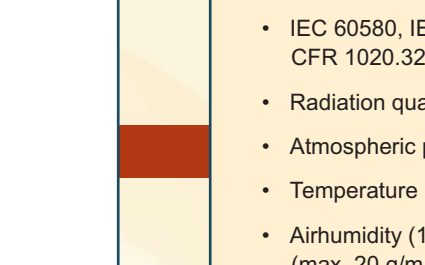
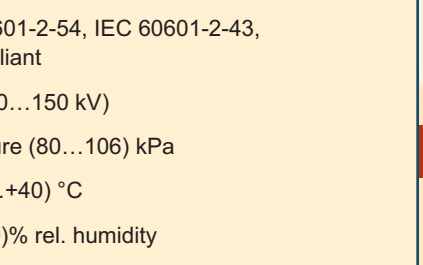
** Distance focus-chamber: 28 cm; Distance focus-reference point: 100 cm, minimal field width 1.4 cm

Additional equipment and components:

		
Battery for VacuDAP The VacuDAP compact in combination with the rechargeable battery is the first complete stand alone DAP system and ideally suited for mobile X-ray systems. The battery pack is also best suited for use with VacuDAP Bluetooth®. Dimension: (100 x 48 x 25) mm	AC/DC Converter The converter provides the supply voltage from a primary SELV of 20 ... 50 VDC or 14 ... 35 VAC.	Printer The label printer Zebra ZD410 and the low cost thermal printer Seiko DPU414 can be used at the serial interface to print a protocol.
Adapter for additional filter Allows operation of VacuDAP in an ISO 11898 compliant bus. Sub-D 9 or RJ45 connectors. Dimension: (54 x 33 x 16) mm + cable	RS 485/232 Converter Interface cable with integrated RS 485/232 converter are available with different lengths in increments of 5 m. Dimension: (53 x 33 x 16) mm + cable	Fixing rails Rails for fixing the rectangular measuring chambers to a collimator are available from 140 mm to 190 mm width.
	CAN Converter The rugged mechanical adapter allows the use of filters in combination with the measuring chamber.	Plug in power supply EU, UK, US type or universal world wide plug in power supply according MDD for 110-240 V AC to power several VacuDAP systems are available optionally.

General technical specifications:

- IEC 60580, IEC 60601-2-54, IEC 60601-2-43, CFR 1020.32 compliant
- Radiation quality (40...150 kV)
- Atmospheric pressure (80...106) kPa
- Temperature (+10...+40) °C
- Airhumidity (10...80)% rel. humidity (max. 20 g/m³)

VacuDAP - C with display	VacuDAP - C	VacuDAP - C rectangular transparent	VacuDAP - C rectangular non transparent	VacuDAP - C duo with display	VacuDAP - C duo
					
display provides RS232 interface to connect PC or printer	RS232 or RS485 interface, optional with CAN converter			display provides RS232 interface to connect PC or printer	RS232 or RS485 interface, optional with CAN converter
all VacuDAP-C configurations can be operated with optional Bluetooth adapter					
complete system powered through display unit by power supply (110 ... 240) VAC	(10 ... 30) VDC			complete system powered through display unit by power supply (110 ... 240) VAC	(10 ... 30) VDC
circular chamber diameter/active area (in mm): 60/44, 100/72 non transparent; 90/68, 157/100 transparent		active area (in mm): 86 x 86, 123 x 123, 147 x 147	length: 290 mm	circular chamber diameter/active area (in mm): 100/72 non transparent	
measurement of DAP, DAP rate, irradiation time				measurement of DAP, DAP rate, Dose, Dose rate, irradiation time	
REF 159 xx+922 xx + REF 943 00 04 + REF 943 00 40 + REF 950 00 57(8, 9)	REF 159 xx+922 xx	REF 160 xx+922 xx		REF 161 xx+922 xx + REF 943 00 04 + REF 943 00 40 + REF 950 00 57(8, 9)	REF 161 xx+922 xx