




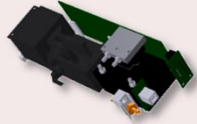


## RADON PRODUCT RANGE – SPARE PARTS & SERVICES




### AlphaGUARD – Spare parts for all models

Article	Radon progeny filter	Case with inlays (Peli case)
Reference no.	P0001071	P0004239
Picture		
Description	External radon progeny filter to be mounted in front of the AlphaPUMP or AlphaGUARD DF2000	Case with PU mold insert (Please specify AlphaGUARD model when ordering) Dimensions: 520 x 460 x 220 mm Weight: 5 kg

### AlphaGUARD – Spare parts for AlphaGUARD D50, D2000, DF2000

Article	Mains power adapter	Dust protection bag	Set of dust protection caps	Quick couplings	Pump module for AlphaGUARD DF2000
Reference no.	P0004354	R0004744	P0004667	P0004645	P0004360
Picture					
Description	Mains power and charging adapter for the AlphaGUARD D50, D2000 and DF2000	Protective bag made of radon permeable polyethylene nonwoven material (Tyvek®) for protecting the AlphaGUARD during stationary use against dust and dirt, With plastic viewing window, fastening cord and stopper.	For protecting the electrical connectors of AlphaGUARD D series	For gas tight tube connections at AlphaGUARD DF2000	Pump module for AlphaGUARD DF2000 Flow-regulated build-in pump, Adjustable flow rates: 0,05 - 0,5 l/min, 1 l/min, 2 l/min, <b>Note: the installation can only be done by technical skilled staff</b>

### AlphaGUARD – Spare parts for AlphaGUARD P1000F, PQ2000 PRO

Article	Mains power adapter	Dust protection bag	Battery for AlphaGUARD P series	Battery for AlphaPUMP
Reference no.	P0000591	R0001106	P0003233	P0004675
Picture				
Description	Mains power and charging adapter for the AlphaGUARD P1000F, PQ2000 PRO and AlphaPUMP.	Protective bag made of radon permeable polyethylene nonwoven material (Tyvek®) for protecting the AlphaGUARD during stationary use against dust and dirt, With plastic viewing window, fastening cord and stopper.	For replacing the battery of the AlphaGUARD P series (self-mounting according to instructions from Betin GmbH).	For replacing the battery of the AlphaPUMP (self-mounting according to instructions from Betin GmbH).

## AlphaGUARD – Services for all models

Article	System check and factory calibration	Additional calibration point for factory calibration	DAkkS calibration	Factory calibration of dose rate module	AlphaGUARD system check (if repair is refused)
Reference no.	P0000590	P0001946	P0002325	P0003949	P0004435
Description	Calibration points: low level (ca. 2 Bq/m <sup>3</sup> ), 1 kBq/m <sup>3</sup> , 10 kBq/m <sup>3</sup> (different calibration points on request), Incl. calibration certificate.	Additional calibration point on request, Incl. calibration certificate.	2-point calibration at 0,3 – 0,5 kBq/m <sup>3</sup> 1 – 3 kBq/m <sup>3</sup> incl. low level test. The calibration is traceable to the primary standard of the German authority for metrology (Physikalisch-Technischen Bundesanstalt) and is carried out by the DAkkS accredited calibration laboratory of the German Federal Office for Radiation Protection (Bundesamt für Strahlenschutz). Incl. calibration certificate.	Calibration of the GM detector and test of the background measurement, Incl. calibration certificate.	To be balanced with repair cost. Will just be charged in case repair is refused.

## AlphaGUARD – Services for AlphaGUARD D50, D2000, DF2000






Article	Upgrade D50 to DF2000	Upgrade D2000 to DF2000
Reference no.	P0005040	P0005041
Description	Incl. firmware and parameter adaptations, pump module and pump installation.	Incl. firmware and parameter adaptations, pump module and pump installation.

## AlphaGUARD – Services for AlphaGUARD P1000F, PQ2000 PRO

Article	AlphaPUMP check and readjust of flow rates	Upgrade AlphaGUARD P30 to PQ2000 PRO
Reference no.	P0002321	P0001104
Description	Check of unit at six different flow levels. Incl. Exchange of internal Aquastop filter	Transfer the P30 in a complete PQ2000 PRO. The AlphaPUMP needs to be ordered separately.







## AlphaPM – Spare parts






Article	Mains power adapter	Cable AlphaPM - AlphaGUARD D series	Cable AlphaPM - AlphaGUARD PQ2000 PRO	AlphaPM filter (25 pcs.)	Filter holder for AlphaPM
Reference no.	P0005399	P0004647	P0005148	P0000168	P0001942
Picture					
Description	For AlphaPM	To connect AlphaPM to EXT.1 socket of AlphaGUARD D series	To connect AlphaPM to MINI DIN socket of AlphaGUARD PQ2000 PRO	25 pcs. glass fibre filters for AlphaPM	Spare holder for fixation of the radon progeny filter.

## AlphaPM – Services





Article	Factory calibration	AlphaPM system check (if repair is refused)
Reference no.	P0002048	P0005402
Description	Calibration with Am-241 source, based on factory reference device traceable to the German Authority for Radiation Protection (Bundesamt für Strahlenschutz), DKD conform calibration for detector efficiency and filter separation. Incl. calibration report. Price for standard calibration point.	To be balanced with repair cost. Will just be charged in case repair is refused.

## AquaKIT – Spare parts

Article	Degassing unit 100 ml	Security unit 100 ml	Degassing device upper part incl. Glass drip	Security device upper part (degassing dev. w/o glass drip)
Reference no.	P0003346	P0003347	P0003453	P0003455
Picture				
Description	Complete Degassing Unit incl. emanation vessel for 100 ml sampling volume, 3-way taps and frit, security locking clamp.	Complete Security Unit consisting of 100 ml vessel and the three-way taps without frit, incl. security locking clamp.	For degassing vessel including glass drip.	For security vessel with three way tap, without glass drip

Article	Glass vessel 100 ml / lower part	Glass vessel 500 ml / lower part	Tubing Kit for AquaKIT	Active coal filter 1 l	Set of quickfit couplings
Reference no.	P0003456	P0003457	P0004521	P0000189	P0001938
Picture					
Description	Lower part without pedestal (NS29) for degassing, security or replacement device Ø 44 mm, height 180 mm.	Lower part (NS29) for degassing device.	Incl. quickfit coupling, 2 m tygon tube.	Cylindrical aluminum container filled with ca. 1 000 cm <sup>3</sup> active coal for the provision of radon-poor air. Serves for the determination of the zero level of AlphaGUARD DF2000 and for reducing the radon level in the closed gas cycle of the AquaKIT. Bulk density: ca. 0,4 g/cm <sup>3</sup> , equivalent to an air volume of 500 L Dimensions (Ø x L): (75 x 350) mm, Weight: ca. 1 400 g.	

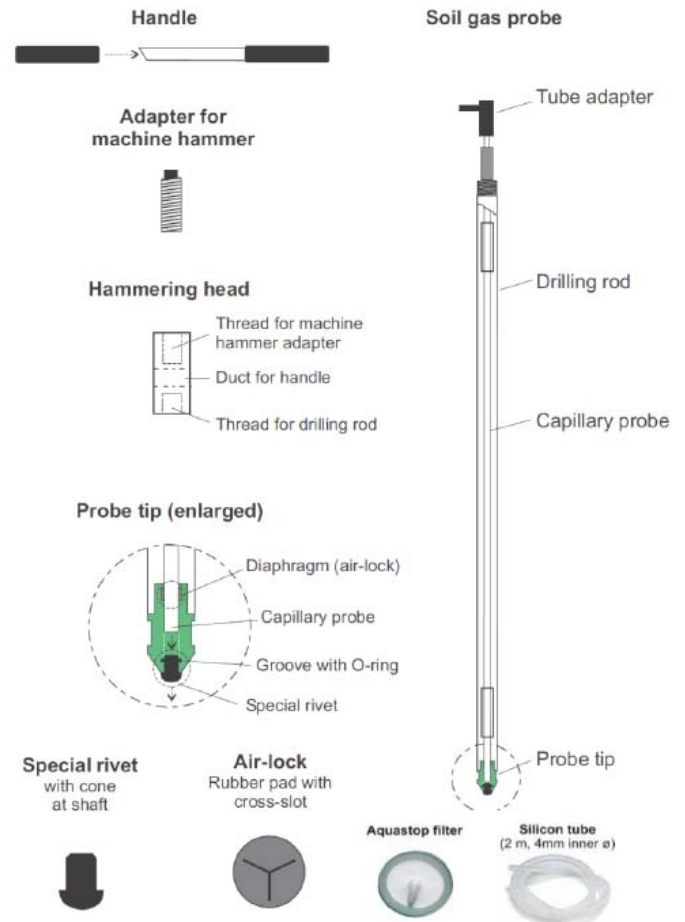
# Soil Gas Probe – Spare parts

Article	External Aquastop filter KIT for Soil Gas Probe	Drilling rod for Soil Gas Probe	Capillary probe for Soil Gas Probe	Probe tip stainless steel for Soil Gas Probe
Reference no.	P0002450	P0004774	P0003901	P0003898
Picture				
Description	5 pcs. of external Aquastop filter. Connectable in series in front of AlphaGUARD DF2000, AlphaPUMP or LabPUMP with soil gas measurement.	Dimensions (Ø x L): (22 x 1000) mm	-	-



Article	Silicone tube (2 m) for Soil Gas Probe	Spare rivets for soil gas probe
Reference no.	P0004305	P0000174
Picture		
Description	Inner diameter: 4 mm	Incl. 50 pcs

Article	Handle for Soil Gas Probe	Hammering head for soil gas probe
Reference no.	P0005026	P0005027
Picture		
Description	Length: 325 mm	SP - M20, incl. adapter for machine hammer M20 x 70 mm - SW13

## Soil Gas Probe for AlphaGUARD Soil Gas Monitor (Components)



## AlphaE – Spare parts

Article	Mains power adapter AlphaE	USB cable
Reference no.	R0001247 +R0001251 (EU) +R0001250 (UK) +R0001249 (USA) +R0001248 (AUS)	R0001252
Picture		
Description	Please specify power plug (EU, UK, USA, AUS). Without USB cable (see R0001252).	USB A to USB Mini B. Needed for charging the AlphaE and transmitting the data. Length: 2 m.

## AlphaE – Services

Article	Factory calibration AlphaE	DAkkS calibration (2 point)	AlphaE system check (if repair is refused)
Reference no.	P0002274	P0004432	P0004422
Description	Calibration using reference standards traceable to PTB (German national metrology institute) and NIST (US National Institute of Standards and Technology). Calibration at 10 000 Bq/m <sup>3</sup> . Measurements including analysis and calibration report.	Carried out by the DAkkS (German accreditation body) calibration laboratory of the German Federal Office for Radiation Protection (Bundesamt für Strahlenschutz). Calibration point 1: 0,2 - 0,5 kBq/m <sup>3</sup> , Calibration point 2: 2 - 6 kBq/m <sup>3</sup> .	To be balanced with repair cost. Will just be charged in case repair is refused.