



Corentium Pro  
by Airthings

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## Corentium specifications



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<b>Airthings product no</b>	236
<b>HS code</b>	9027.10.1000
<b>Country of origin</b>	Norway
<b>Sampling method</b>	Passive radon diffusion chamber
<b>Detection method</b>	Alpha spectrometry
<b>Dimensions</b>	140 x 140 x 30 mm
<b>Weight (incl. batteries)</b>	323 grams
<b>Power Supply</b>	3 AA alkaline batteries (LR06)
<b>Battery life-time</b>	~ 2 years
<b>Internal memory storage capacity</b>	5 years at 1h time resolution
<b>Hardware</b>	
<i>Display</i>	✓ via app
<i>Battery powered</i>	✓
<i>Hourly reading</i>	✓
<i>Memory storage</i>	✓
<b>Sensors</b>	
<i>Radon</i>	✓
<i>Temperature</i>	✓
<i>Humidity</i>	✓
<i>Pressure</i>	✓
<i>Tilt and Accelerator</i>	✓
<b>Software</b>	
<i>iOS app</i>	✓
<i>Android app</i>	✓
<i>Customizable report</i>	✓
<i>CRA Readout Software</i>	✓
<i>Web report</i>	
<b>Connectivity</b>	
<i>USB</i>	✓
<i>Wireless</i>	✓
<b>Measurement uncertainty (stat.)</b>	
<i>After 1 day</i>	Std dev < 7% +5 Bq/m <sup>3</sup>
<i>After 7 days</i>	Std dev < 5% +2 Bq/m <sup>3</sup>
<b>Measurement range</b>	
<i>Instrument</i>	0 – 100000 Bq/m <sup>3</sup>
<i>Upper display limit</i>	100000 Bq/m <sup>3</sup> (via app)
<b>Diffusion time constant</b>	25 minutes
<b>Operation environment</b>	
<i>Temperature</i>	4°C to 40°C
<i>Humidity</i>	<85% RH
<b>Temperature sensor</b>	
<i>Range</i>	4 °C to 40 °C
<i>Resolution</i>	0.336 °C
<i>Accuracy</i>	±0.5 °C (typical) ±1 °C (max)
<b>Humidity sensor</b>	
<i>Range (non-condensing)</i>	5 %RH to 85 %RH
<i>Resolution</i>	0.5 %RH
<i>Accuracy (in range 20-80 %RH)</i>	±4.5 %
<b>Barometric pressure sensor</b>	
<i>Range</i>	50.0 kPa to 115.0 kPa
<i>Resolution</i>	0.06 kPa
<i>Accuracy</i>	±1 kPa