

# ARGAT®

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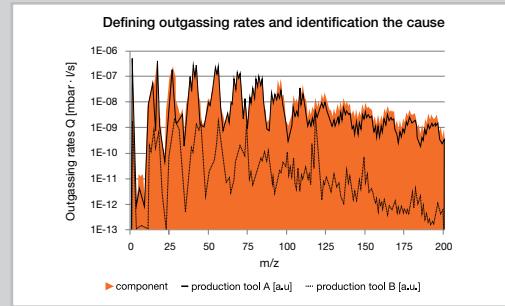
Automatic Residual Gas Analysis Tool



- ▶ Quantitative results  
(mbar · l / s / cm<sup>2</sup>)
- ▶ Direct report output
- ▶ Fully -automated measurement
- ▶ Comparable results
- ▶ Automatic detection of substances

TREAMS

**ARGAT®** is a measuring device for **residual gas analysis** under vacuum. It **quickly** and **fully-automatically** determines outgassing rates of single parts or complete assemblies. As a result of **automatic spectral** measurement, residual gas composition can be directly determined and gas contributions can be clearly assigned to their origin. Furthermore, **ARGAT®** provides absolute and quantitative results in mbar·l/s, which allow the establishment of appropriate outgassing limits.



The diagram on the upper right shows the spectrum of a contaminated part together with those of two different production supplies “FHM A” and “FHM B”. The matching signatures identify FHM A as the origin of an elevated gas contribution.




## Technical data

		ARGAT® <i>pre</i>	ARGAT® <i>fine</i>
Detection limit per mass		1 · 10 <sup>-10</sup> mbar · l/s	1 · 10 <sup>-12</sup> mbar · l/s
Permitted materials		metal, glass, ceramics, plastics	
Output of test results	<ul style="list-style-type: none"> <li>▶ Direct display</li> <li>▶ Measurement report</li> <li>▶ Raw data</li> </ul>	testing against limits PDF und XML CSV	
Operation via		17" touchscreen/keyboard/ trackball	
Measuring time	▶ Minimal	15 min.	
	▶ Standard	1 hour	10 hours
Cleaning of measuring chamber		fully-automated	
Cleaning duration		5–15 minutes	4–8 hours
Connections and required media	<ul style="list-style-type: none"> <li>▶ Power connection</li> <li>▶ Compressed air</li> <li>▶ Reference gas</li> </ul>	400 V/AC, 50 HZ, 16 A /32 A 5 bar/quality: ISO8573-1:2010 quality 7.0	
	<ul style="list-style-type: none"> <li>▶ Nitrogen</li> <li>▶ Town water</li> </ul>	-	1 bar / purity 99,8 % supply and return lines
Ambient conditions	<ul style="list-style-type: none"> <li>▶ Temperature</li> <li>▶ Air humidity</li> <li>▶ Cleanroom compatibility</li> </ul>	+ 10 °C to +40 °C 20% to 70% optional	

## Example of construction

<ul style="list-style-type: none"> <li>▶ Size of the measuring chamber</li> <li>▶ Device dimensions (LxWxH)</li> <li>▶ Weight of measuring device</li> </ul>	inside diameter: 250 mm, length: 500 mm 1700 x 1050 mm x 1550 mm 500 kg
<p>The measuring device is specifically designed for your application            (Among others, the following parameters are taken into consideration: size, geometric shape, number of components, material and grade of contamination. )</p>	

## In combination with ARGAT® we offer you...

 Relabel and qualified support	 Comprehensive maintenance packages and services	 Trainings for operating, technical and maintenance staff
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