



Where meniscus meets the mark



argos F<sup>TM</sup>  
volumetric assistant



Your volumetric assistant

**Accurate**  
**Tireless**  
**Traceable**

## ANALYTICAL LABORATORIES

worldwide are equipped with sophisticated instruments using powerful IT solutions. Modern analytical instruments are built to generate precise and accurate results. Moreover, digital data processing offers features that are crucial for many laboratories: comprehensive quality management and traceability.



Even when the final steps in analytical measurement are performed with high precision, the overall performance of a laboratory may still depend on human factors and certain procedures that remain unautomated. Where accurate solutions are required in an analytical laboratory, we still rely on VOLUMETRIC FLASKS.

## VOLUMETRIC FLASKS



For more than two centuries, volumetric flasks have remained indispensable for determining accurate volumes and concentrations. However, filling the flask to the calibration mark is a purely manual procedure, reliant on several human factors and challenging to document. Consequently, preparation of solutions often lacks traceability, which can limit the quality of results.

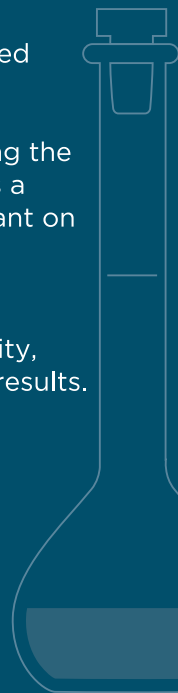
**A FLAWLESS STRUCTURE**

**OF INSTRUMENTAL ANALYSIS**

**IS OFTEN BUILT ON HUMAN EFFORT,**

**AND THIS IS WHERE ARGOS F**

**OFFERS VALUABLE SUPPORT**



## OVERVIEW

ARGOS F is a semi-automatic device designed to fill volumetric flasks accurately to the calibration mark. Its workflow mirrors that of manual procedures, ensuring full compatibility with traditional laboratory standards.

Argos F is designed to minimize human error and maximize the accuracy of volumetric flask filling. It introduces a new level of traceability and documentation to your sample preparation process.

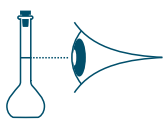
argos F<sup>TM</sup>

10" touchscreen

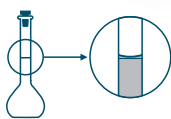
Flask holder

High precision pump

Digital vision system



Precise digital vision system



Accurate flask filling process



User friendly interface



Detailed reporting and traceability



## WORKFLOW

### of volumetric flasks filling with ARGOS F

Prepare Argos F according to the manual for a single filling or a batch of samples (5 minutes for a batch of samples)

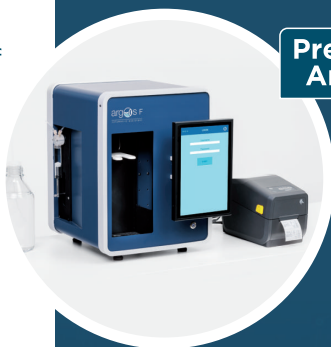
Log in and enter your sample description into the ARGOS F system according to GMP (this process takes approximately 2 minutes for a batch of samples)

Weigh or pipet your sample into the flask. Prefill it leaving the meniscus 15–20 mm below the mark

Place your flask in the holder (this takes a few seconds)

Argos F takes care of the rest: filling to the mark, printing labels, creating reports and storing all data in a secure database.

**Prepare Argos**



**Log in**



**Insert flask**



**With ARGOS F your laboratory gains not only accuracy and efficiency in sample preparation but also enhanced traceability, reinforcing high standards for data integrity and documentation.**

# SPECIFICATIONS

General	
Operating environment	Indoor use
Operating temperature	5–50 °C
Operating and storage humidity	20 %–80 %, relative, non-condensing
Wetted materials	PTFE, glass, PFA, stainless chromium nickel steel, polypropylene, ETFE, PEEK
Volumetric flask compatibility	50, 100, 200 ml clear glass, NS 14/23 10, 20, 25 ml, clear glass, NS 10/19 (optionally)
Physical	
Dimensions (WxDxH)	340 x 390 x 430 mm
Weight	20 kg
Electrical	
Power requirements	220-240 VAC, 50 Hz, 0,5A
User interfaces	
USB 3.0, USB 2.0	<ul style="list-style-type: none"> <li>- Data transfer</li> <li>- Peripheral devices (incl. thermal transfer printer)</li> </ul>
Ethernet (RJ-45)	<ul style="list-style-type: none"> <li>- Server connection for data backup</li> <li>- Robotic arm connection (optional)</li> </ul>
Display	10" capacitive touchscreen
Performance Specifications	
Pass rate*	>99%
Time to fill a set of 10 flasks	Typically, less than 5 minutes
Deviation of mark from meniscus	Typically less than +/- 100 µm**
Repeatability of filling (n=6; RSD)	Typically less than 50 µm
Deviation of mark from meniscus detected as "Fail"	Less than 120 µm
Warning system	<ul style="list-style-type: none"> <li>• Flask not installed in imaging system;</li> <li>• Liquid drops detected on the neck internal wall (due to surface defect or insufficient cleaning);</li> <li>• Precision pump wear monitoring;</li> <li>• Operation qualification date approaching</li> </ul>
<p>* Pass rate – minimum number of successful fillings in a set of 100 flasks</p> <p>** Volumetric flask thickness in average 400 µm</p> <p>*** Specifications are subject to change without notice</p>	

# ARGOS F

Provides  
computer vision  
support to  
classical procedure

Ensures accuracy  
and precision

Minimizes  
Human errors

Generates labels  
and traceable  
records

Empowers your lab to  
achieve unparalleled  
excellence!



**Faneks SIA**

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argos F™