Data sheet

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WILCOMAT® R DPPA

Automated leak detection of BFS

The R DPPA is a high-speed leak detection system for 100% control of BFS ampoule cards. Based on the established LFC method® a wide variety of container shapes with liquids, non-conductive or low-filled products can be tested. The R DPPA is a scalable platform and can test up to 220 cards per minute.

Highlights:

Versatile
The R DPPA allows a custom-designed setup with multiple test procedures and operation modes. Several options increase the flexibility of this leak tester

Sensitive
Continuous developments have constantly improved the test sensitivity and robustness of the LFC method®. More than 20 years' experience guarantee reliable and robust test results.

Regulatory Compliance
The system complies fully with latest regulatory requirements regarding GMP guidelines, preferred test procedures and data integrity.

Highspeed
The R DPPA can be equipped with up to 24 inspection stations and allows a throughput of up to 220/min.

Features:

- Integrated LFC method ®
- Sensitivity of down to 5 microns
- Full body testing of BFS container
- Applicable for various shapes and sizes of BFS
- Applicable for oily and non-conductive liquids
- Applicable for BFS with low filling volume
- Non-destructive test method
- Deterministic test method preferred acc. USP1207
- Test method according to ASTM – F 2339
- Design according to WILCO GMP guidelines
- Data Handling in compliance with 21 CFR part 11
- Reliable product handling
- Easy and tool-less format changeover
- OPC UA connection

Technical specification

R DPPA	20/8 40/8 60/8	80/12 100/12	120/18 140/18 160/18	180/24 200/24 220/24
Max. throughput/min	20/40/60	80/100	120/140/160	180/200/220
No. of test stations	8	12	18	24
Packages	BFS and FFS ampoules cards or single ampoules			
Format Range	BFS ampoule cards: Standard size: L_{max} = 115.00 mm W_{max} = 104.00 mm Large size: L_{max} = 135.00 mm W_{max} = 106.00 mm			
HMI	21" color touch display (FHD), resolution 1920 x 1080 MAVIS user interface (21 CFR part 11 compliant)			
CCI Test Procedures	Liquid filled container method - LFC method®			
Sensitivity	Leaks of Ø 5µm and bigger can be detected			
Reporting	Batch report generation and export as non-editable pdf or image file Batch data export for analysis as .xls and .csv Hard copy of batch report via printer			
Backup functions	Manual and automatic export of HMI settings and database			
User management	Configurable user access levels Local user management External user management via ActiveDirectory			
Connection to SCADA/MES/Historian	Standard OPC UA server with read access to real-time standard data			
Materials	Stainless steel, Aluminum, PMMA, POM, PE			
Dimensions	According standard layout			
Weight	Depending on machine size			
Power supply	50 HZ: 3 x 400 / 230V TN-S neutral available 60 HZ: 3 x 480 / 277V solidly grounded way source only			
PLC	B&R PLC			
Uninterrupted power supply	A 24V DC UPS prevents data loss and damage to the PC. In case of prolonged power failure, approximately 2 minutes, the data is saved, and the PC shuts down. After 5 minutes, the UPS switches off automatically.			
Vacuum/Pressure supply	6….10 bar, peak consumption: depending on no. of test stations LFC method® vacuum: External vacuum pump, max. hose length is 10 m			
Interfaces	3 x Ethernet 2 x USB 2.0			
Software	Windows 10 IoT Enterprise 2019 LTSC			
Environmental conditions	Room temperature range: 15 – 35° C (Δ < 2° C / 10 min) Room humidity range: 30 – 63 % rH (Δ rH < 5 % / 60 min) Ambient pressure range: 900 – 1.050 mbar			
Sample conditions range	18 – 35° C (Δ < 2° C / 10 min)			

07/2022

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