



**FX 3300-IV LabAir**  
Air Permeability Tester



## FX 3300-IV LabAir with many Benefits

The fourth generation of the FX 3300 unites 50 years of experience, know-how and research & development expertise in an instrument for the determination of air permeability, pressure drop as well as flow impedance. The FX 3300-IV LabAir is distinguished by its user-friendliness, flexibility and wide measuring range. The instrument complies to ASTM D 737, ASTM D 3574, DIN 53887, EN ISO 7231, EN ISO 9237, GB/T 5453, GB/T 24218.15, JIS L 1096-A, TAPPI T-251, WSP 70.1 and many other national and international test standards.



✓ **Benefit thanks to sophisticated design**

Due to the robust design and the very sturdy clamping arm, the instrument is well-suited, not only for measurements in the laboratory, but also for the rugged conditions of a production environment.

✓ **Benefit thanks to flexibility**

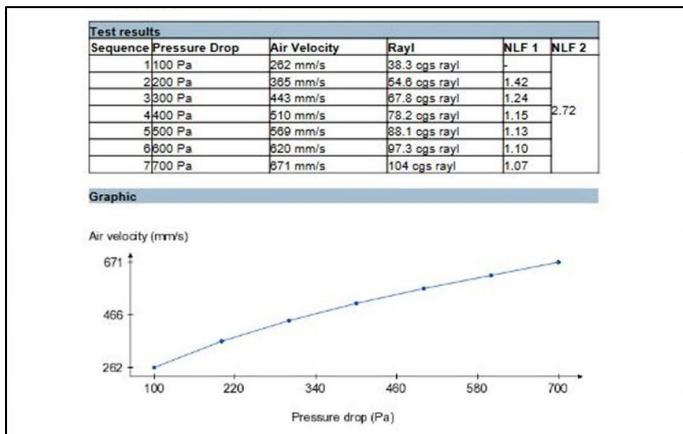
Many custom-built test heads and adapters are available for special applications. Talk to us, if your products are out-of-the-ordinary.

✓ **Benefit thanks to “more than air permeability”**

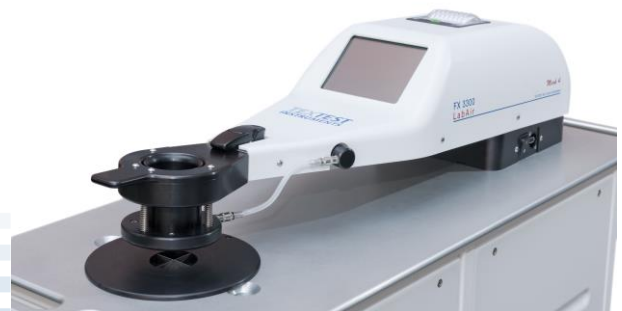
Besides the air permeability in many different units of measurement, the FX 3300-IV LabAir can also determine the pressure drop as well as the specific and acoustic air flow resistance.

✓ **Benefit thanks to Sequence Module**

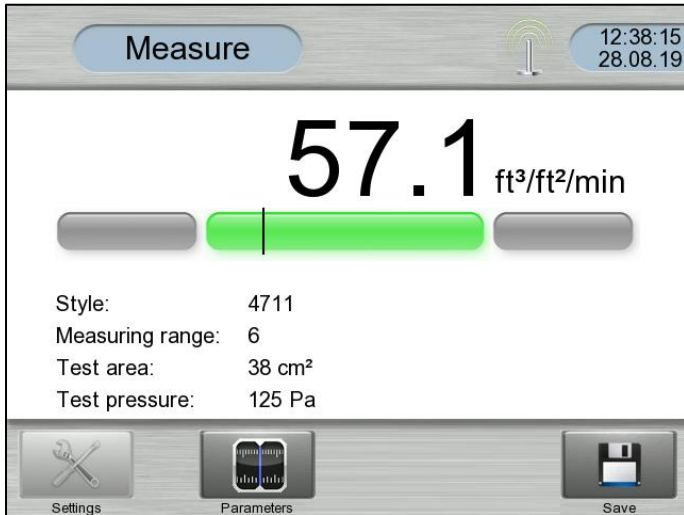
This optional software module allows the programming of automatic pressure or velocity sequences for research and development work in the acoustic filter sector. As a result, the respective air permeabilities or pressure drops, and, if desired, the RAYL values and non-linearity factors, are provided.



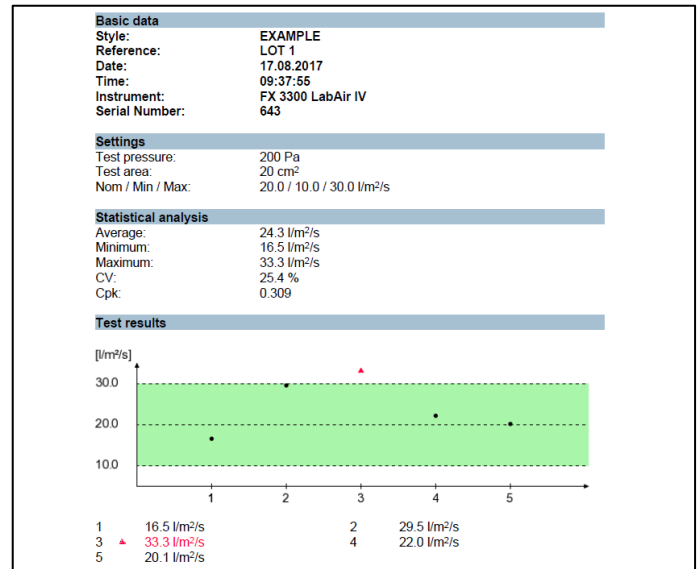
Test report generated with FX 3300-IV SEQ



Robust Design



Touch Display for operation of the instrument



Test report generated with FX 3300-IV EVA

✓ **Benefit thanks to automatic cleaning function**

Manual cleaning is rendered unnecessary. The automatic cleaning function prevents fibers and dust from accumulating on the orifice disk or at its seals, which can affect the test results.

✓ **Benefit thanks to automatic measuring range selection**

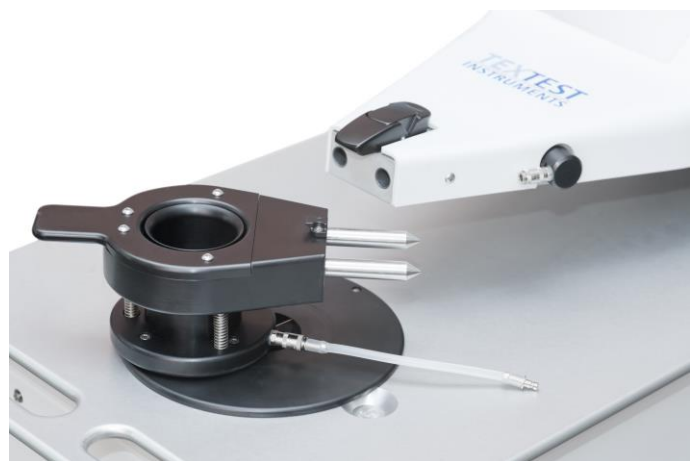
The operator has no influence whatsoever on the test result. The automatic measuring range selection has eliminated the last source of error.

✓ **Benefit thanks to evaluation and printing options**

The instrument can be connected to a network by ethernet cable or WLAN. With the optional evaluation module FX 3300-IV EVA, test reports in PDF or XML can be downloaded from the instrument's web server. Alternatively, an integrated strip printer FX 3300-IV PRI is available.



Integrated Strip Printer FX 3300-IV STP



Test Heads for various test standards



## Technical Specifications

- Measuring range
 

0.4 ...	750	cm <sup>3</sup> /cm <sup>2</sup> /s	at	5 cm <sup>2</sup>
1 ...	10'000	mm/s	at	20 cm <sup>2</sup>
0.6 ...	6'000	l/dm <sup>2</sup> /min	at	20 cm <sup>2</sup>
0.002 ...	20	dm <sup>3</sup> /s	at	25 cm <sup>2</sup>
0.1 ...	1'300	ft <sup>3</sup> /ft <sup>2</sup> /min	at	38 cm <sup>2</sup>
0.05 ...	700	cm <sup>3</sup> /cm <sup>2</sup> /s	at	38 cm <sup>2</sup>
0.03 ...	400	m <sup>3</sup> /m <sup>2</sup> /min	at	38 cm <sup>2</sup>
2 ...	24'000	m <sup>3</sup> /m <sup>2</sup> /h	at	38 cm <sup>2</sup>
0.1 ...	1'600	l/dm <sup>2</sup> /min	at	100 cm <sup>2</sup>
20 ...	2'500	Pa at 1 ... 10'000 mm/s	at	20 cm <sup>2</sup>
- Units of measurement
 

mm/s, l/m<sup>2</sup>/s, l/dm<sup>2</sup>/min, ft<sup>3</sup>/ft<sup>2</sup>/min, cm<sup>3</sup>/cm<sup>2</sup>/s, m<sup>3</sup>/m<sup>2</sup>/min, m<sup>3</sup>/m<sup>2</sup>/h, dm<sup>3</sup>/s, Pa, Pas/m, MKS Rayl, CGS Rayl, dm<sup>3</sup>/s, EN 14683 (Pa/cm<sup>2</sup>)
- Measuring accuracy
 

Better than ±3 % of the displayed value
- Test pressure
 

20 ... 2'500 Pa (optionally expandable to 5'000 Pa or 10'000 Pa)
- Test areas
 

5, 20, 25, 38 and 100 cm<sup>2</sup> (others on request)
- Data ports
 

RS 232 C, asynchronous, bi-directional  
 USB 2.0 for USB flash drive  
 Ethernet and WLAN as options
- User interface
 

Touch display
- Power requirements
 

85 ... 260 VAC, 50/60 Hz, max. 1'100 W
- Compressed air requirements
 

5 ... 8 bar (required for the cleaning function only, the instrument can be operated without compressed air)
- Projection of clamping arm
 

50 cm
- Sample thickness
 

0 ... 10 mm
- Dimensions (w x d x h)
 

40 x 100 x 98 cm
- Weight
 

Approx. 55 kg

*Subject to change.*

A certificate of calibration in compliance with ISO/IEC 17025:2017 and a check plate is included with each FX 3300-IV LabAir.



SWISS CALIBRATION  
SERVICE