

Minneapolis Micro Leakage Meter

An airtight building envelope is an important prerequisite for implementing up-to-date energy designs in new buildings as well as during building projects in existing buildings. In order to guarantee hygienic indoor air, fresh air supply through controlled room ventilation is the most sensible solution.



Airtightness testing of ventilation duct systems according to EN 12599

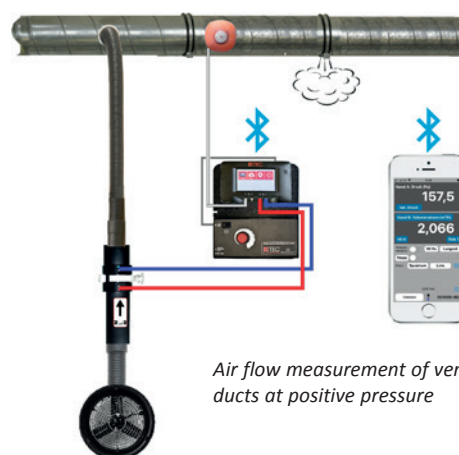
The Minneapolis Micro Leakage Meter (MLM) Measuring System has been developed by the manufacturer The Energy Conservatory in close cooperation with BlowerDoor GmbH in order to guarantee the functionality of ventilation systems by conducting airtightness tests of the duct system. With a measuring range of 0.17 to 78.5 m³/h, the MLM is also suitable for testing building components as well as small and highly airtight clean rooms.

The airtightness of the ventilation ducts installed is an important requirement for the functionality and efficiency of ventilation systems. Leakages in the ductwork impede the targeted distribution of air in the building. Consequently, the high level of air quality planned is not achieved. Leaky ventilation ducts impair the efficiency of ventilation systems, in particular of those with heat recovery.

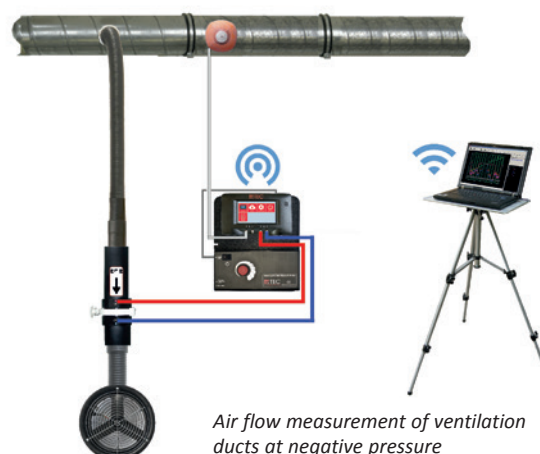
The measuring principle

The ventilation systems are tested by ventilation strands. When testing the supply air ducts, the MLM is, for example, connected to the supply air valve. All other valves and the supply air duct at the central unit are closed with rubber bladders.

Using the Minneapolis DuctBlaster fan and the pressure gauge DG-1000 positive (testing supply air ducts) pressure or negative (testing exhaust air ducts) is created. The measurement can be performed via the TEC Gauge app or via a Windows computer using the TECLOG software. The data from the App TEC Gauge is displayed as follows and can be exported.



Air flow measurement of ventilation ducts at positive pressure



Air flow measurement of ventilation ducts at negative pressure

Technical Data

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Measuring range:	Pressure differential:	Measuring accuracy:
2.15 – 57.4 m³/h	250 Pa	With disc 1 or 2: ±5 % or ± 0.37 m³/h of the measured value (the higher value is valid)
2.15 – 69.7 m³/h	160 Pa	With disc 1 or 2: ±5 % or ± 0.37 m³/h of the measured value (the higher value is valid)
0.17 – 78.5 m³/h	80 Pa	With disc 1 or 2 (measuring range of 2.15–78.5 m³/h): ±5 % or ± 0.37 m³/h of the measured value (the higher value is valid)
		With disc 3 (measuring range of 0.65–3.23 m³/h): ±5 % or ± 0.09 m³/h of the measured value (the higher value is valid)
		With disc 4 (measuring range of ≤ 0.83 m³/h): ± 0.04 m³/h

Dimensions: L 300 mm, Ø 140 mm

Weight: approx. 800 g

Software TECLOG MLM

Version TECLOG 4 per download link in English, reference guide available in EN/DE/FR

System requirements: Windows 10, Windows 11, Excel 2007 and higher

Package variants

A1 | Airtightness testing of ventilation systems

For users without a BlowerDoor measuring system

Scope of delivery at blowerdoor-unlimited.com

A2 | Airtightness testing of ventilation systems

For users with the BlowerDoor MiniFan measuring system

Scope of delivery at blowerdoor-unlimited.com

B1 | Airtightness testing of ventilation systems, airtightness testing of small buildings

For users without a BlowerDoor measuring system

Scope of delivery at blowerdoor-unlimited.com

B2 | Airtightness testing of ventilation systems, airtightness testing of buildings

For users with the BlowerDoor Standard measuring system

Scope of delivery at blowerdoor-unlimited.com