LEAK DETECTION SYSTEM
LEAK-MASTER® MAPMAX

www.wittgas.com

further information on
www.leak-master.net

Automatic in-line micro-leak detection system for packages based on CO_2.
LEAK-MASTER® MAPMAX features non-destructive detection of even the smallest leaks – directly from the packaging line – without the need for costly Helium.

CO_2 is one of the most important gases in the packaging of food with modified atmospheres.
The LEAK-MASTER® MAPMAX uses this CO_2 as a trace gas.

The in-line unit places the packages or complete shipping cases precisely into the test chamber. If the test sample is leaking, the pressure difference will result in gas flow from the package into the chamber, causing the CO_2 concentration within the chamber to rise. The highly sensitive sensor will notice the change in CO_2 concentration so that even the smallest leaks will be detected.

After each test cycle (up to 15 cycles per minute), the chamber is ventilated and the test sample is moved on to the following system. If a leak has been detected, several potential free contacts for communication with external systems are available (e.g., alarms and/or sorter).

Benefits

- short response time
- high operating speed (max. 15 cycles/min.)
- for single packages or complete shipping cases
- various chamber sizes
- for flexible and rigid packs
- no calibration required
- easy-to-use intuitive system – no special skills required
- operator friendly - data and process parameter entry by means of integrated PLC with touch-screen or via remote personal computer
- convenient data administration and evaluation for customer-oriented quality documentation
- remote transmission of results via Ethernet
- easy-to-clean stainless steel housing

Other models, options and accessories available upon request.

LM4 USA - K03/3F subject to change

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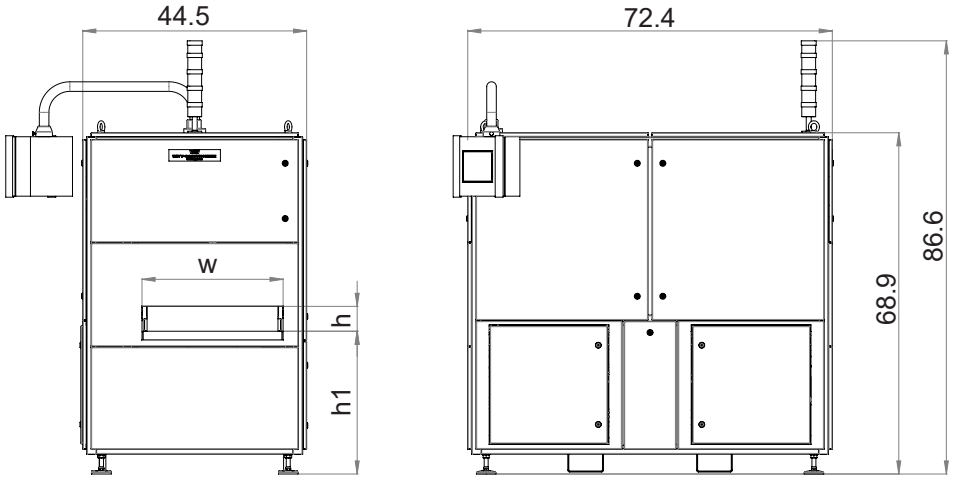
Type	LEAK-MASTER® MAPMAX
Drive Mechanism	2 synchronized belt conveyors
Measuring System	infrared sensor for CO_2 (calibration not required)
Measuring range	0 ppm – 5 000 ppm (Resolution: 1 ppm)
Response time	approx. 1 sec.
Max. CO_2 concentration in ambient air	2 500 ppm
Leak testing cycle	max. 15 measures/min. depends on leak size, CO_2-percentage in package and size of chamber
Operating vacuum	up to 100 mbar abs.
Temperature range	41 – 104°F
Humidity of ambient air	max. 90% at 68°F / max. 50% at 104°F
Alarms	potential free contact; max. 250 V AC or 24 V DC / 2 A
Communication	- data communication via Ethernet - digital output for test cycle - digital output for pusher unit
Compressed air connection	1 x 14 mm; 6–8 bar / 88–118 PSI
Housing	stainless steel
Weight	approx. 2 094 lb
Machine dimension (L x W x H) **machine type 400, 700**	 72.4 x 44.5 x 86.6 inches
Test height (h1) **machine type 400, 700**	 26.4 – 33.5 inches (higher upon request)
Test volume (l x w x h) **machine type 400** **machine type 700**	 approx. 23.6 x 15.7 x 15.0 inches approx. 23.6 x 26.8 x 8.7 inches
Power consumption	400 V – 50 Hz, 3 Ph/N/PE
Approvals	Company certified according to ISO 9001 and ISO 22000 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU - Machines Directive 2006/42/EC

Caution!
This equipment is not suitable for the checking of packaging featuring O_2 content greater than 20.9% (fresh meat, for example).



dimensions in inches

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