Gelbo Flex Tester with Particle Counter

Model: G0005



The Gelbo Flex Tester with Particle Counter is to measure the amount of loose fibres (lint) shed from non-woven materials in a 30 second time period of flexing. It is important that non-woven textile materials must have a low tendency to lint.

The IDM Gelbo Flex Tester with Particle Counter is a fast and accurate instrument for determining the linting of non-woven materials.

This test can also be applied to other materials like tissues.



The sample is subjected to repetitive twisting and compression cycles, air is withdrawn from the testing chamber and particles in the air stream are counted and classified with the laser particle counter.

Gelbo Flex Tester with Particle Counter consists of two 82.8mm diameter mandrels, one fixed and the other attached to a moveable arm to perform the flexing action. The moveable mandrel twists and compresses the sample at 60 cycles/min of 180° rotation over 120mm of stroke.

Flexing Chamber measuring 300 x 300 x 300 mm which has removable panels for easy cleaning with built in Isokinetic intake probe (air collector), and HEPA filter to reduce the incoming dust & lint.

Particle Counter counts and sorts the particles in real time with relevance to sizing from 0.3 to $25.0\mu m$ or 0.5 to $25.0\mu m$. The counter will simultaneously monitor up to 6 environmental sensors such as temperature, humidity, air velocity or differential pressure. These are recorded whilst measuring particles. It has a flow rate of 1CFM (28.3 LPM) and is able to store up to 3,000 data sets including particle and environmental data, plus location time etc. It also prints reports on a built in thermal printer.

Features

- Gelbo Flex Tester
- Flexing Chamber and Air Collector
- Stainless Steel cutting template: 285mm x 220mm
- Sample Mounting Fixture
- Isokinetic Probe (Air Collector)
- 6 Sensor Monitor
- Particle Counter: Optional sizes available
 - o 0.3 to 25.0μm
 - o 0.5 to 25.0μm



* EXAMPLE *
Sample being tested



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Specifications

	Gelbo Flex Tester Main Unit							
Mandrels x 2	82,8 mm dia							
Cycles/Min	60							
Rotation	180°							
Stroke	120 mm							
Flexing Chamber	300 mm x 300 mm x 300 mm							
Flow Rate	1 CFM (28,3 LPM)							
Storage	Up to 3,000 data sets							
Power	220 / 240 VAC @ 50 HZ or 110 VAC @ 60 HZ							
	(please specify when ordering)							
Dimension	H: 350 mm x W: 972,5 mm x D: 352 mm							
Weight	44 kg							



Options

- Particle Counter
- LMS Express 7 Software
- Airstream® Horizontal Flow Cabinet

Standards

- ISO 9073-10
- inda IST 160.1
- DIN EN 13795-2
- YY/T 0506.4

➤ Particle Counter (Please specify sizing range when ordering)

Models

3100+ C6	Inda IST 160.1	0,1; 0,5; 1,0; 5,0; 10,0; 25,0 μm					
5100+ C6	Inda IST 160.1	0,5; 1,0; 3,0; 5,0; 10,0; 25,0 μm					
3100+ C6	ISO 9073-10	0,1; 0,5; 0,7; 1,0; 3,0; 5,0; 10,0; 25,0 μm					
5100+ C6	ISO 9073-10	0,5; 1,0; 2,0; 3,0; 5,0; 7,0; 10,0; 25,0 μm					

Power	220 / 240 VAC @ 50 HZ or 110 VAC @ 60 HZ (please specify when ordering)
Dimensions	H: 258 mm x W: 203 mm x D: 253 mm
Weight	6 kg



Particle Counter

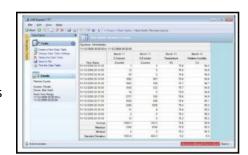


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LMS Express 7 Software:

LMS Express 7 allows users to manually download data directly from Lighthouse instruments or import Lighthouse Secure Data files from supported counters.

- Manual data download from Lighthouse Portable Particle Counters via COM ports and Network Ports
- Exports data tables and reports to excel (*.XLS) or CSV
- Exports graphs to BMP, JPEG, and more
- Easy unit conversion
- Localized dates and numbers
- Includes database with archiving feature



Data tables allow you to view data points in detail. They can be printed and exported to Microsoft Excel file (*.xls) or Comma Separated Values file (*.csv).

> Airstream® Horizontal Flow Cabinet

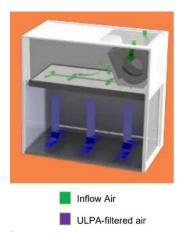
Room air is taken from the top of the clean bench through a disposable pre-filter with 85% arrestance. The air is forced evenly across the ULPA filter, creating a clean stream of air within the workzone.

- Stable & self-compensating flow
- ULPA filter (up to ISO Class 3)



Airflow diagram

- Air is forced evenly across the ULPA/H14 filter(s); the result is a stream of clean laminar air within the workzone of the clean bench; this dilutes and flushes all airborne contaminants from the interior.
- Filtering won't let particles greater than 0.3 μm pass through.





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Guide to ordering Optional Flow Cabinets

* Please note that the standard model supplied with G0005 is LHG-5AG-F8(9)

L			-			G	-	F	
1	2	3		4	5	6		7	8

1st Place Holde	Place Holder 2 nd Place Holder 3 rd Place		3rd Place Hold	lace Holder 4 th Place Holder		5th Place Holder		6th Place Holder		7th Place Holder		8th Place Holder			
PRODUCT LINE		FLOW		SIDE WALL		WIDTH		INTERNAL HEIGHT		CONTROL		WINDOW		ELECTRICAL	
Laminar Flow	L	Horizontal	Н	Glass	G	5 feet	5	2 feet	A	Sentinel™ Gold	G	Fixed	F	230 VAC, 50/60Hz	8
			V	Stainless Steel	S	6 feet	6	2.5 feet	В					115 VAC, 50/60Hz	9
						8 feet	8	3 feet	С						

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