LMI Series

Melt Flow Indexer

Features

- Performance meets international standards: ASTM D1238 & D3364, ISO 1133, BS2782, DIN 53735, JIS K7210
- Color Touch Screen with a simplified, user-friendly interface for setup and control
- Semi-automated pneumatic weight lift option for all weight loads
- Ergonomic, stackable weights from .325 – 31.6kg for all LMI applications
- Force Packer option for consistent material packing
- USB connectivity for data storage, scale integration, networking and printing capabilities
- Melt Flow Rate to Intrinsic Viscosity correlation for PET
- 100 program storage capability when used with software option
- Modular options allow for easy field upgrades from a base model to a fully integrated Analyzer vs. Instrument

Description

The LMI is a cultivation of feedback from customers incorporating a series of key features and options: Color Touch-Screen Display incorporating a redesigned user-friendly menu structure, USB communications, pneumatic weight lift system with stackable weights, a force packer, higher accuracy digital encoder, redesigned auto cutter option and software improvements.

The latest development in Melt Flow Indexers, the LMI is capable of delivering a wide range of data that includes not only melt index values, but also shear stress, shear rate, viscosity and apparent melt density, as well as testing conditions.

The addition and improvements of key attributes help alleviate some of the burden of running a melt index test from the technician and improves repeatability of the data.

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Digital Encoder – The Digital encoder provides a high precision measurement of piston displacement during Method A/B and B tests. # D4059A

Force Packer – The Force Packer is designed to apply a constant force to compress the sample once the operator has loaded the polymer sample. This constant force promotes a level of confidence by removing variability between operators. # D4060

Languages – Supports 12 languages: English, Chinese, Dutch, German, Polish, Japanese, Portuguese, Spanish, Italian, Czech, French, Russian

LaVA Suite Software – The redesigned software is capable of producing a series of data including information about testing conditions, melt index values, shear stress, shear rate, viscosity, and apparent melt density. Through the use of this software option, these values are recorded and may be reported through various outputs and formats. Software # S1275 License # EL053

Weight Lift System – The weight lift system allows for effortless weight application. By storing all of the weights in a stack above the LMI, selecting the weight load is as simple as moving the selector pin from one slot to the next eliminating the need for lifting weights manually. The lift system also offers a mid-position stop and hold feature for highly viscous materials. # D4056A

Specifications

PERFORMANCE CHARACTERISTICS

Compliant Standards:	ASTM D1238 & D3364, ISO 1133, BS2782, DIN 53735, JIS K7210
Operating Temperature:	Ambient to 500°C
Temperature Control:	±0.1°C
Timer Accuracy:	0.001 second
Digital Encoder Accuracy:	±0.025mm over 25.4 mm
User Interface:	7" TFT Touch Screen 130° Viewing Angle 800 x 480 Screen resolution WVGA Resistive Screen Type
Weights:	Aluminum, Stainless and Plated Steel, 0.325 to 31.6 Kg
Communication:	USB x 3, PC Connectivity, Scale Interface, Printing and Flash Storage

Dimensions:	
Overall Dimensions, Base Model:	13W x 25D x 20H in. (33W x 64D x 51H cm)
Overall Dimensions, Base Model with Lift System:	13W x 25D x 51H in. (33W x 64D x 132H cm)
Weight, Base Model:	47 lbs. (21.3 Kg)
Weight, Base Model with Lift System:	170 lbs. (77.1 Kg)
Shipping Weight, Base Model with Weights:	52 lbs. (23.63 Kg)
Shipping Weight, Base Model with Lift System:	295 lbs. (134.1 Kg)
Electrical Specification:	
System Voltage:	100-120Vac 50/60Hz or 220-240Vac 50/60Hz, 500VA, + 5%
Power:	500W max., 100W typical at set point

Ordering Guide

LMFI-X-X-X-X-X-X-X

- 1 = 120V 60Hz
2 = 230V 50Hz
- N = No Lift
L = Lift Installed
- N = No Digital Encoder (Method A)
E = Digital Encoder (Method A/B, B)
- N = No Option
- N = No Automatic Cutter
C = Automatic Cutter Installed
- N = No Force Packer
P = Force Packer Installed
- N = Standard Barrel
H = Alloy Barrel Installed

All dimensions are inches (mm) unless otherwise specified.

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