

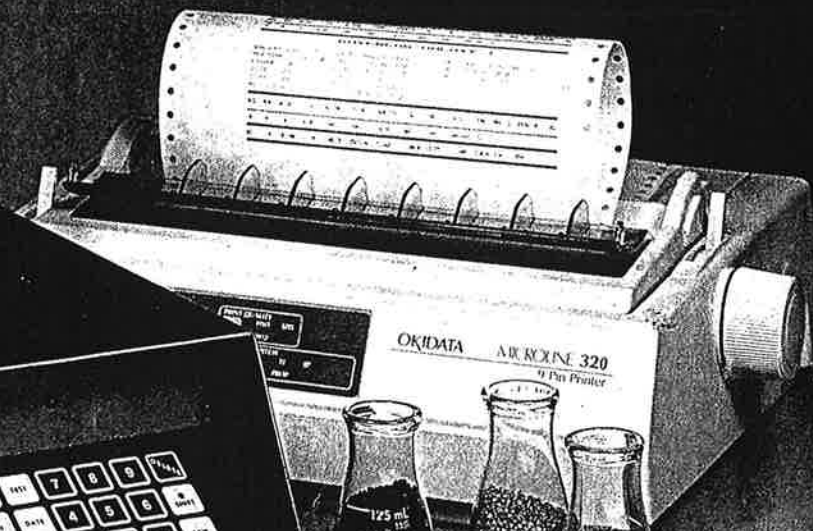
GALAXY I SERIES MELT FLOW INDEXERS

Valuable Process Information At An
Affordable Price

- Quality Control of Incoming Polymer
- Regrind Content & Compound Analysis
- Important For SQC/SPC Programs
- Extremely Easy to Operate & Maintain
- Cost Effective Tests of Material Flow & Viscosity

**CAUTION
MAY BE HOT!**

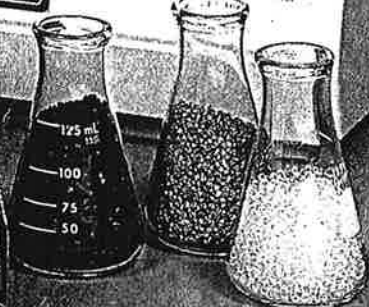
**CAUTION
MAY BE HOT!**



OKIDATA AIR KYNE 320
9 Pin Printer



126.0
KAYENESS INC.



KAYENESS

A DYNISCO COMPANY

QUALITY BEGINS WITH THE MATERIAL.

Quality and cost effectiveness are the foundations of a competitive product. Assuring your processing material conforms to specifications is a critical step towards achieving a high quality product.

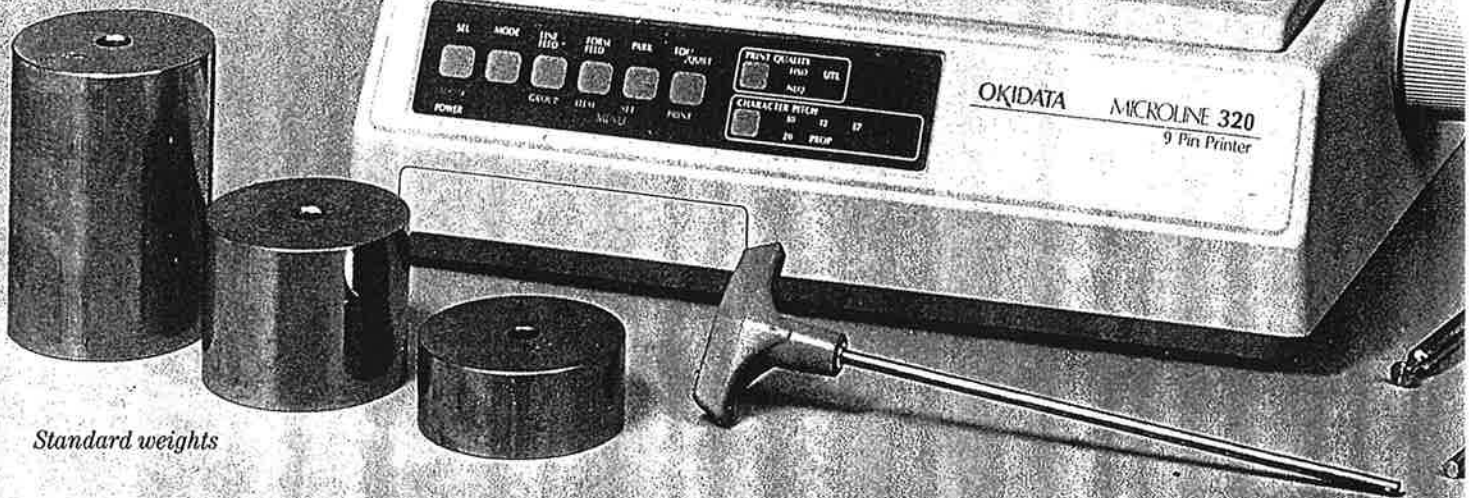
KAYENESS GALAXY I Series Melt Flow Indexers test incoming polymer to make sure it meets specifications and is consistent from lot to lot. They provide an accurate, cost-effective, easy-to-operate means of establishing polymer flow and viscosity calculations per ASTM D-1238 methods A and B.

The GALAXY I Series is available in a choice of models to meet a variety of application needs. Basic Model 7049 provides a digital display of flow rate, while Model 7050 features a five program memory that stores different materials or test conditions and features a digital display. The more advanced Models 7053 and 7054 allow you to establish statistical quality and process (SQC/SPC) programs for your polymers. These advanced units provide statistical packages for up to 20 separate programs and allow you to print out rheological data such as flow rate, flow rate ratio, viscosity, shear rate and shear stress. You can establish limits on each variable and the print out will clearly detail conformance. Further, Model 7054 can down-load rheological data to remote computers to establish a polymer quality data base.

Heat

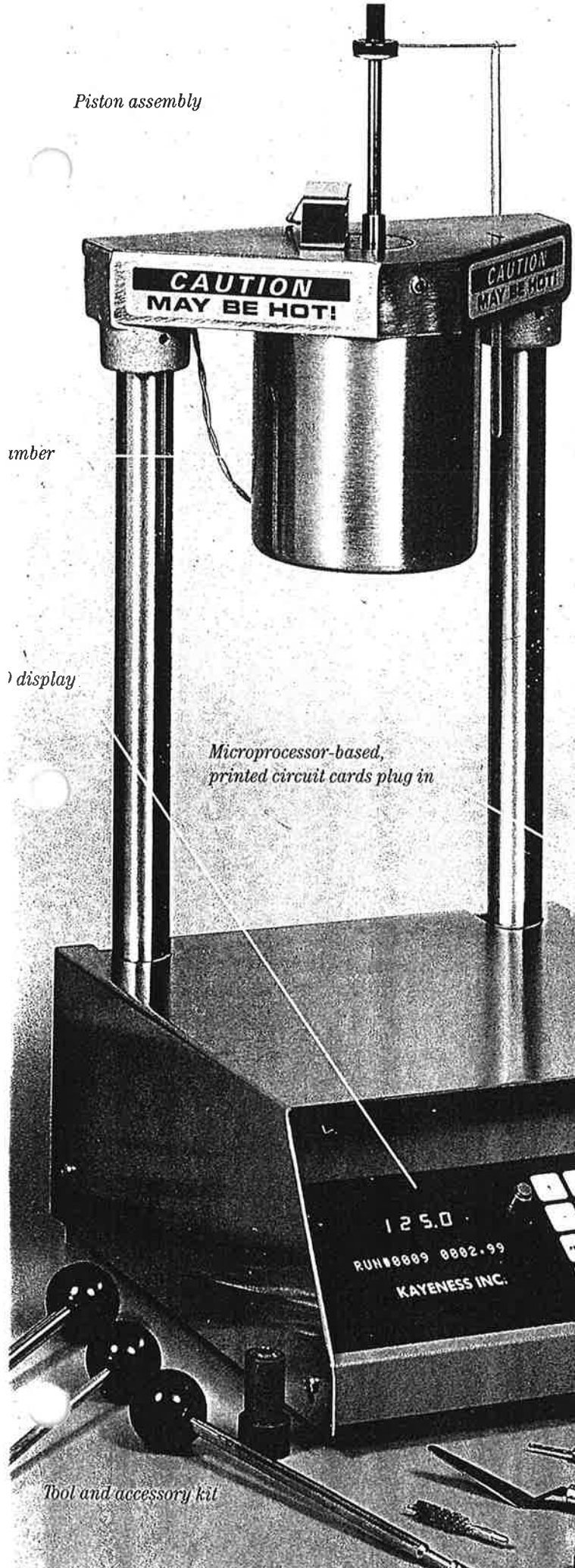
Data table print out

Brick



Standard weights

Piston assembly



umber

display

*Microprocessor-based,
printed circuit cards plug in*

Tool and accessory kit

AUTOMATICALLY MONITOR OPERATIONS & STORE TEST CONDITIONS!

The GALAXY I is the first commercially available Melt Indexer to have a digital computer on board to automatically monitor operation and store test conditions. The on-board computer regulates and displays melt temperature to $\pm 0.1^{\circ}\text{C}$ using a unique PID control algorithm.

The electronics system permits instantaneous flow rate and viscosity calculation; pneumatic weight lift automation; temperature control within 0.1°C ; programmable memory for storing test condition parameters, and built-in timer for melt time, method cut time and display of "B" time. Programs are set up through an angled touchpanel and LED display, which is recessed under a dust hood.

At the conclusion of each test series, flowrates, flowrate ratios, viscosity, shear rate, shear stress, and various statistical measures can be calculated. Also averages standard deviation and coefficient of variance can be monitored.

These data can then be transmitted to a printer or the KAYENESS Data Processing System. Consisting of an 80486-based personal computer, video monitor (VGA), and software, the system can digitally store the information and act as an R&D or quality control database.

The GALAXY I is also available with a pneumatic lift system which allows heavy weights to be lowered for flow rate ratio measurement or automatically lowered during single point tests.

Each instrument includes all items necessary for testing. A choice of weights (depending on model) is also included with each instrument, along with (1)

Tungsten Carbide Orifice and (1) Calibrated Thermometer— 230°C . A Go/No Go Gauge is included for monitoring I.D. of Orifice.

The GALAXY I will reach 300°C , high enough for most commodity polymers, as well as some common engineering resins, such as polycarbonate or ABS. For higher temperature materials, a high temperature option is available to reach 430°C .

(The GALAXY I requires a minimal amount of table space due to its compact size (15" W x 18" D x 26" H).

Membrane programming key pad

FEATURES	GALAXY I SERIES MODEL NUMBER			
	7049	7050	7053	7054
Digital Temp. Control	●	●	●	●
RTD Failure Circuit Protect	●	●	●	●
Methods A,B,A/B	A only	●	●	●
Over-Temp. Alarm/Cut-Off	●	●	●	●
Digital Display	●	●	●	●
Flowrate Display	●	●	●	●
Five Program Memory		●	●	●
Flow Ratio Display		●	●	●
Automatic Lowering Option		●	●	●
Upgrade to Higher System		●	●	●
Twenty Program Memory			●	●
Statistical Package			●	●
Quality Control Limits			●	●
Rheological Data Print-Outs			●	●
Printer Output Capability			●	●
Up/Download to Comp. System				●
Multiplexing				●

SOFTWARE FEATURES

Electronic raw data storage
Statistical control charting
Sample group statistics

DATA PROCESSING SYSTEM

80486 DX 33 Mz CPU
1.2 MB floppy disk drive
120 or better hard disk drive
VGA Color Monitor

SPECIFICATIONS

Shipping Weight 35 lb (16 kg) *with lift*: 75 lb (34 kg)
Net Weight 30 lb (14 kg) *with lift*: 70 lb (32 kg)
Size 15" w x 18" d x 26" h (38 x 50 x 141 cm)
Power 120V/60 Hz or 220V/50 Hz 5A
Temperature Ambient to 300 ± 0.1°C (option to 430 ± 0.2°C)
Viscosity 0.1 poise-1 Mpoise (0.01 Pa's-100kPa's)
Shear rate* 0.0001-10,000/second
Shear stress* 0.001-0.5 Mdyne/sq. cm. (2-500 psi)
Sample size 8-12 grams
Load range Available 0.1 to 21.6 kg (0.22 to 50 lb)

*Dependent on material viscosity and orifice.

Meets or exceeds various standards for melt indexing, including ASTM D1238, 3364, ISO R1133, BS 2782, DIN 53735, JIS K7210.

ORDERING GUIDE (See quotation for detailed ordering information)

- 1) Specify model number from table above
- 2) List options from following list:

OPTIONS:

Pneumatic Lift System, Additional Weights, High Temperature System To 430°C, Data Processing System (for digital storage), Electronic Eye Calibrator, Okidata Dot Matrix Printer, Spare Parts Kit

EXAMPLE: D7054—Printer, Pneumatic Lift System

Call Or Write For More Information

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