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MODEL 1010 (1011) CONTROLLED RATE FREEZING SYSTEM

Forma Scientifics' Model 1010 (1011) Controlled Rate Freezing System offers microprocessor programming capabilities for user-defined protocols. Unsurpassed for user convenience, the microprocessor provides precise temperature control quickly and automatically.

THE MODEL 1010 (1011) SYSTEM INCLUDES:

- Model 8018 (8019) Programmable Controller with stand
 - Six standard preset programs
 - Model 8028 (8029) Strip Chart Recorder
 - Choice of freezing chamber (choose from 3 sizes)
 - Stainless steel transfer hose and freezing rack
 - 2ml sample thermocouple
-

PROGRAMMABLE CONTROLLER FEATURES

Model 8018 (8019) Programmable Controller combines microprocessor programming with push-button operation to quickly and easily meet your freezing needs between +50°C and -180°C.

Dual solenoid valve operation allows for precise temperature control and accelerated freezing.

Programmable error limits with audible alarm protect against specimen damage resulting from program deviations. Alarm is automatically tracked and a permanent record is documented on the strip chart recorder.

Freezing rates are programmable from 0.01°C/min. to 99.9°C/min. Sample and chamber temperature are clearly displayed on the control panel by LED readouts.

Program holding times from 1 second to 99.9 minutes.

Manual override allows for operator intervention to change program while in progress.

Convenience features include built-in self diagnostics, three digit access code for security

and compact design for limited lab space.

RS-232 port permits computer interface or connection to an optional data thermal printer.

To compensate for latent release of heat, a chamber temperature drop may be activated by actual sample temperature to reduce super cooling.

MODEL 8028 (8029) STRIP CHART RECORDER

Single pen simultaneously charts both sample and chamber temperature and permanently logs all tracking errors to graph during freezing process.

Incremental time and temperature plotting at 2 minute/2°C intervals. Paper advances at a rate of .5" per minute.



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