

MultiTemp™ IV Thermostatic Circulator

MultiTemp IV Thermostatic Circulator is a versatile temperature control unit for electrophoresis equipment (Fig 1). MultiTemp IV provides reliable and reproducible temperature control by circulating constant temperature liquid to external electrophoresis equipment. In electrophoresis applications, heat is generated from gels and buffers and a stable temperature is required for obtaining high quality gel resolution. MultiTemp IV can be connected to Ettan™ DALTsix, Multiphor™ II, SE 600 Ruby, or SE 660 electrophoresis units.

MultiTemp IV features include:

- Effective temperature control, improved heating capacity, and reduced noise level
- Specially designed for electrophoresis applications
- Improved design optimized for low evaporation, less maintenance, and easy cleaning
- Rapid heating and cooling times and three preset temperatures
- Insulation tubing for cooling and 3-way valve set

Description

MultiTemp IV has been designed to allow rapid and efficient temperature control performance, with minimal footprint and intuitive controls. MultiTemp IV has a range of features that improve ease of use. All controls are located on the front panel and easily navigated via a digital panel. The reservoir level can be read, filled, and drained from the front panel. The unit contains R 134a™, an ozone friendly HFC-type coolant, and is extremely quiet during operation (< 58 dBA). A user-defined temperature cut-off provides automatic shutdown in case of overheating.

For laboratories that use tap water to cool their electrophoresis equipment, MultiTemp IV substitutes the need for running tap water by cooling water in its internal tank and recirculating it. This reduces water consumption and provides an environmentally friendly solution.

MultiTemp IV technical specifications are shown in Table 1.



Fig 1. MultiTemp IV Thermostatic Circulator is a temperature control unit that offers effective temperature control for electrophoresis applications.

Table 1. Technical specifications for MultiTemp IV Thermostatic Circulator

Temperature range (°C)	-10 to +80
Temperature stability (°C)	± 0.1
Cooling capacity (BTU)	853
Maximum flow rate (Lpm) ¹	17 (4.5 gpm)
Maximum pressure (mbar) ²	300 (4.4 psi)
Internal tank volume (L)	2.8
Overall dimensions (w × l × h; cm)	22.7 × 45.8 × 58.8
Unit weight (kg)	29

¹ Maximum flow rate for 100V/50Hz is 12.5 Lpm.

² Maximum pressure for 100V/50Hz is 250 mbar.



Ordering information

Product	Quantity	Code no.
MultiTemp IV Thermostatic Circulator 115 V/60 Hz	1	28-9941-72
MultiTemp IV Thermostatic Circulator 230 V/50 Hz	1	28-9941-71
MultiTemp IV Thermostatic Circulator 100 V/50-60 Hz	1	29-0096-30

Accessories

Cooling tubing, 8/12 mm, silicone	4 m	80-1106-56
Tubing connector set, female and male	4	18-1104-26
Hose clamps	10	18-1104-27
Insulation for cooling tubing	1.8 m	80-1116-11
3-way valve set	1	18-1106-39

Related products

Ettan DALTsix Electrophoresis Unit, 220 V	1	80-6485-27
Ettan DALTsix Electrophoresis Unit, 115 V	1	80-6485-08
Multiphor II Electrophoresis System	1	18-1018-06
SE600 Ruby Standard Dual Cooled Vertical Unit, Complete	1	80-6479-57
SE660 Dual Cooled Vertical Unit, Basic	1	80-6189-82

Related literature

2-D Electrophoresis: Principles and Methods, GE Healthcare, (2010)	80-6429-60
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R134A is a trademark of E F Products, Inc.

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