

852/853/854 Peltier Racks



Cooling and Heating Racks with Stand-Alone Control

- Flexible, accurate and programmable racks for heating and cooling from 4–40°C
- Three versatile rack options: 852 for shallow-well plates, 853 for 2-mL vials and 854 for deep-well plates
- Can be configured with the single-probe 215 Liquid Handlers or the Quad-Z 215 Liquid Handler
- Up to five Code 85X Series racks can be placed on the locator plate of the liquid handler, enabling the heating and/or cooling of up to 960 samples
- Open OCX controls make integration into your system quick and easy
- Gilson's Programmable Peltier Controller provides stand-alone control for up to five racks, allowing you to change the temperature of each rack, view the current status of the racks, and view the current and set temperature of each rack
- Control via the Programmable Peltier Controller as an integral part of any system or as a stand-alone unit

Applications

- Small-volume sample preparation for HPLC or LC/MS
- Pharmaco-kinetic assays
- Biological assays



Technical Specifications

852/853/854 Peltier Racks

Front Panel	HOT, COLD and STANDBY indicator lights
Liquid-Contact Materials	Anodized cast aluminum (T6061 and T5052 H32), stainless steel (300 series), polypropylene
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Power Requirements	Voltage: 5 and 24V DC Current rating: 0.2A at 5V or 5.0A at 24V
Rack Capacity	852: Two Becton Dickinson Falcon™ assay plates, 96-well, shallow, "U-Bottom" 853: 96 flat-bottom vials, 12 x 32 mm (2 mL) 854: Two Ritter or Beckman microplates, 96-well, deep
Software	Via Programmable Peltier Controller keypad or Gilson control software
Temperature Range	4–40°C
Dimensions* (w x d x h)	11.9 x 33.8 x 16.8 cm (4.7 x 13.3 x 6.6 in.) *Up to five 85X Series Peltier Racks will fit on the locator plate of a single-probe 215 Liquid Handler.
Weight	852: 3.4 kg (7.6 lbs.) 853: 4.9 kg (10.7 lbs.) 854: 3.8 kg (8.4 lbs.)

Programmable Peltier Controller

Front Panel	POWER indicator light; 25 soft keys
Display Panel	40-character, four-line backlit LCD
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Modes	Cooling (C): The current temperature of the rack is more than 2°C warmer than the set temperature Heating (H): The current temperature of the rack is more than 2°C cooler than the set temperature Initializing (I): The rack is initializing Ready (R): The current temperature of the rack is $\pm 2^\circ\text{C}$ of the set temperature Stopped (S): The temperature of the rack is no longer being regulated Error (E): The rack is in an error state. Contact Gilson for assistance Programming (P): The rack is in the programming state. Contact Gilson for assistance
Power Requirements	Frequency: 50–60 Hz Voltage: 90–240V Current rating: 8.0A for 90–120V or 4.0A for 220–240V (max.); 6.0A for 90–120V or 3.0A for 220–240V (typical) Internal fuses: Five 5A subminiature PC board fuses to be replaced by service personnel only
Software	Via Gilson control software
Communication Interface	RS-232 or GSI0C
Dimensions (w x d x h)	26.5 x 43.5 x 15.6 cm (10.4 x 17.1 x 6.2 in.)
Weight	8.4 kg (18.6 lbs.)

For applications or additional information, contact your local Gilson Technical Sales Representative or visit www.gilson.com.

Gilson, Inc. World Headquarters
Middleton, WI 53562 USA
Telephone: 800-445-7661 or 608-836-1551
Fax: 608-831-4451

Gilson S.A.S.
19, avenue des Entrepreneurs
F-95400 VILLIERS LE BEL France

www.gilson.com
sales@gilson.com, service@gilson.com, training@gilson.com



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