

MEASURING QUALITY. SINCE 1796



CIRCULATION THERMOSTATS

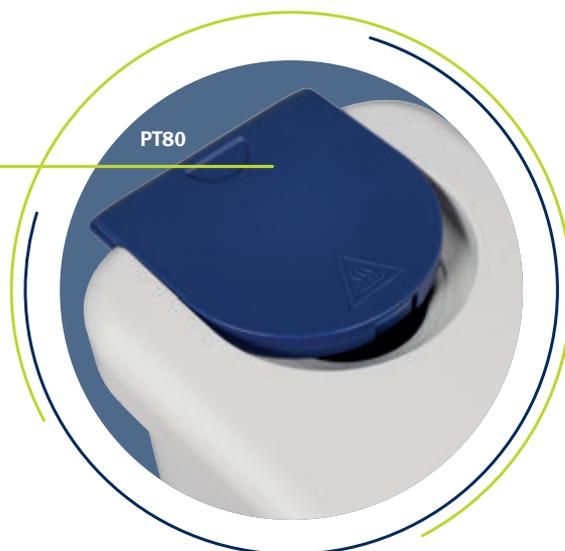
PELTIER TEMPERATURED - SMALL AND EXTREMELY QUIET

MADE IN
GERMANY



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PT80 CIRCULATION THERMOSTAT



PT80

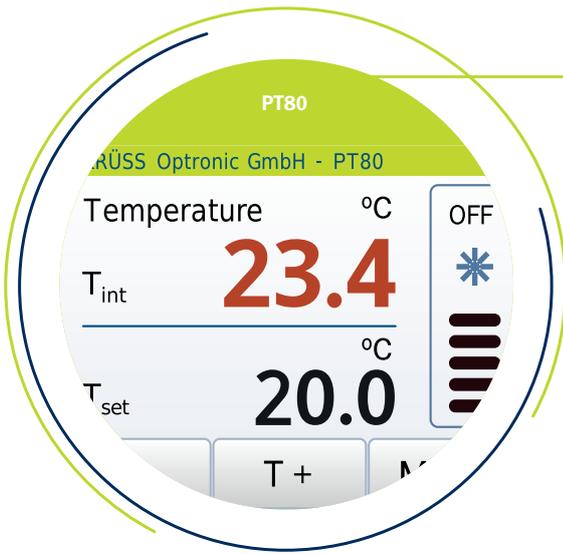
The PT80 circulation thermostat is an extremely quiet, energy-efficient and handy device that has been specially developed for small temperature control tasks in the laboratory. Unlike classic compressor-driven thermostats, the PT80 uses modern Peltier technology to operate thermoelectrically. The environmentally friendly technology ensures extremely quiet and low-vibration operation, 50% lower energy consumption and completely eliminates the need for refrigerants. Yet rapid temperature control in a temperature range from 5°C to 80°C is still possible, not least due to the low filling volume of only 250 ml. With an accuracy of $\pm 0.1^\circ\text{C}$, the PT80 is ideally suited to high laboratory standards for the temperature control of polarimeters and refractometers. The PT80 is also very well equipped for efficient and environmentally friendly cooling of condensers (e.g. Liebig or reflux condensers) in thermal separation processes on a laboratory scale.

KEY DATA

TEMP. CONTROL RANGE	5°C – 80°C
ACCURACY OF T. CONTROL	$\pm 0.1^\circ\text{C}$
TEMP. CONTROL RESOLUTION	0.1°C
AMBIENT TEMPERATURE RANGE	5°C – 40°C
HEATING CAPACITY	120 W
COOLING CAPACITY AT 20°C	40 W
PUMP PRESSURE	110 mbar
PUMP CAPACITY	60 l/h
FILLING VOLUME	250 ml
IP CODE	IP21
CLASS OF PROTECTION (DIN EN 61140)	III
CLASSIFICATION (DIN 12876-1)	I; non-flammable liquids
ELECTRICAL DATA	100-240 VAC, 2,5 A 50/60 Hz

YOUR BENEFITS

- Circulation thermostat with Peltier technology
- Rapid temperature control from 5°C to 80°C
- Temperature accuracy of $\pm 0.1^\circ\text{C}$
- Extremely quiet and low-vibration operation
- Environmentally friendly, due to 50% lower energy consumption and elimination of refrigerants
- Suitable for operation with non-flammable liquids (water or water/glycol mixture)
- Resistive touchscreen display
- Easy-to-understand and intuitive menu navigation
- Standard RS-232 interface for PC communication
- PT80 control by P8000 series polarimeter



DIGITAL FUNCTIONS

The easy-to-understand TFT display enables all relevant information to be clearly displayed. The temperature of the PT80 can be individually adjusted via a user-friendly touch-screen. The easily accessible functions and intuitive user guidance in the user menu ensure convenient handling. The circulation thermostat can be easily controlled with the serial RS-232 interface. This enables effective data exchange as well as remote control via PC or direct control via the user interface of our P8000 series polarimeters. PC networking also provides documentation of all relevant settings. The temperature of the PT80, for example, can be queried with the simplest programs. These networking functions even make the PT80 suitable for automated temperature control in the environment of laboratory 4.0 applications.

KEY DATA

DISPLAY TYPE	RGB TFT display
DISPLAY RESOLUTION	320 x 240 pixels
DISPLAY DIMENSIONS (W X H)	72.4 mm x 54.7 mm
CONTROL	Resistive touchscreen (pressure sensor technology)
ELECTRONIC INTERFACE	RS-232 interface
DEVICE DIMENSIONS (W x H x D)	170 mm x 225 mm x 244 mm
DEVICE WEIGHT	2.7 kg (without mains adapter and mains cable)

