

PR500 Series Liquid Thermostatic Bath

PANRAN

Panran Measurement & Calibration Technology Co., Ltd.

PANRAN instruments are available in South Africa from Intercal (Pty) Ltd

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The PR500 series liquid thermostatic bath uses liquid as the working medium, the medium is heated or cooled by the PR2601 temperature controller, and supplemented by mechanical forced stirring form a uniform and stable temperature environment in the working area for verification and calibration of various temperature instruments (Such as: RTDs, glass liquid thermometer, pressure thermometer, bimetal thermometer, low temperature thermocouple, etc.)

All PR500 series products are designed with touch screens, which makes the operation simple and intuitive, and provides a wealth of information such as temperature stabilities, heating and power curves.

I. Features

■ Resolution of 0.001°C and Accuracy of 0.01% Level

Conventional liquid baths typically use a general temperature regulator as the core component of temperature control, but the general temperature regulator can achieve a only 0.1 level accuracy at best. The PR500 series liquid thermostatic bath can achieve a

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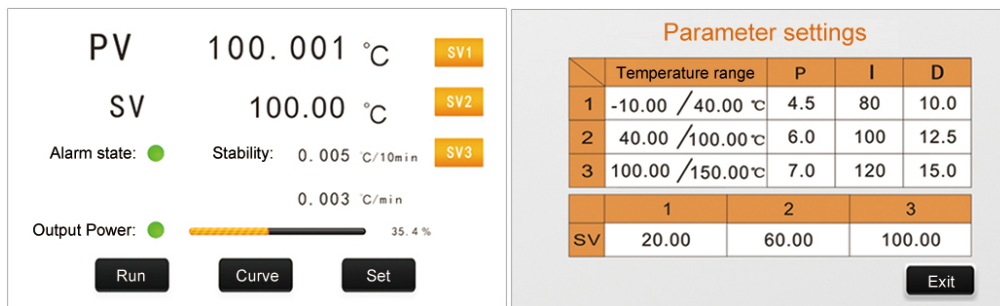
measurement accuracy of 0.01% level by using the PR2601 temperature controller independently developed by Panran and the resolution is up to 0.001°C. In addition, its temperature stability is far better than other bath which used general temperature controller.

■ **Highly Intelligent and Easy Operation**

Conventional cooling bath rely on manual experience to determine when to switch compressors or cooling cycle valves. The operation process is complicated, and incorrect operation can result in damage to the equipment hardware. However, the PR530 series only needs to manually set the required temperature value, which can automatically control the operation of heating, compressor and cooling channels, greatly reducing the operational complexity.

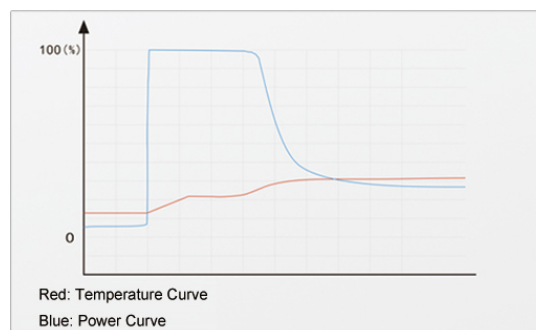
■ **Constant Speed Heating and Cooling Function**

PR500 series liquid thermostatic bath can automatically realize heating or cooling at a constant speed according to the set rate.



▲ Running main interface

▲ Parameter setting



▲ Curve interface

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II. Product Selection and Technical Parameters

| Name | Model | Working medium | Temperature range(°C) | Temperature uniformity (°C) | | Temperature stability (°C/10min) | Work area (mm) | Volume (L) | Dimension (L*W*H mm) | Weight (kg) | Power (kW) |
|------------------------------|-----------|-----------------------------------|-----------------------|-----------------------------|----------|----------------------------------|----------------|------------|----------------------|-------------|------------|
| | | | | Horizontal | Vertical | | | | | | |
| Oil bath | PR512-300 | Silicone oil | 90~300 | 0.01 | 0.01 | 0.007 | 150*480 | 23 | 650*590*1335 | 130 | 3 |
| Water bath | PR522-095 | Soft water | RT+10~95 | 0.005 | 0.01 | 0.007 | 130*480 | 18 | 650*600*1280 | 150 | 1.5 |
| Cooling Thermostatic bath | PR532-N00 | Antifreeze | 0~100 | 0.01 | 0.01 | 0.01 | 130*480 | 18 | 650*590*1280 | 122 | 2 |
| | PR532-N10 | | -10~100 | | | | | | 650*590*1280 | 122 | 2 |
| | PR532-N20 | | -20~100 | | | | | | 650*590*1280 | 139 | 2 |
| | PR532-N30 | | -30~100 | | | | | | 650*590*1280 | 139 | 2 |
| | PR532-N40 | Low temperature heat transfer oil | -40~100 | | | | | | 650*590*1280 | 139 | 2 |
| | PR532-N60 | Absolute ethanol / soft water | -60~95 | | | | | | 810*590*1280 | 187 | 3 |
| | PR532-N80 | | -80~95 | | | | | | 810*590*1280 | 187 | 4 |

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