

PR500 Series Liquid Thermostatic Calibration Bath

The PR500 series uses liquid as the working medium, and the bath controlled by the PR2601 precision temperature controller module, which is specially designed for temperature source by PANRAN R&D department .

They supplemented by mechanical forced stirring form a uniform and stable temperature environment in the working area for verification and calibration of various temperature instruments (e.g. RTDs, glass liquid thermometers, pressure thermometers, bimetallic Thermometers, low temperature TCs, etc.).

The PR500 series are designed with touch screens, which is visual, facilitates operation, and provides a wealth of information such as temperature stabilities and power curves.



● *Product feature*

1. Resolution of 0.001°C and accuracy of 0.01%

Conventional liquid baths typically use a general temperature regulator as the control process of temperature controller, but the general temperature regulator can achieve a only 0.1 level accuracy at best. The PR500 series can achieve a measurement accuracy of 0.01% level by using the PR2601 precision temperature controller module independently developed by PANRAN and the resolution is up to 0.001°C. In addition, its temperature stability is much better than other bath which used general temperature controller.

2. Highly intelligent and easy operation

The highly intelligent nature of the PR500 series liquid bath is reflected in the cooling bath. 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.

3. AC power abrupt change feedback

The PR500 series has a AC power adaptation function, which tracks AC power stabilities in real time, optimizes output regulation, and avoids the adverse effects of AC power abrupt change on stability.

● **Basic parameters**

Product name	Model	Medium	Temp range (°C)	Temp. field Uniformity(°C)		Stability (°C/10min)	Access Opening (mm)	Volume (L)	Weight (kg)	Dimension (L*W*H) mm	Power (kW)	
				Level	Vertical							
Oil bath	PR512-300	Silicone oil	90~300	0.01	0.01	0.007	150*480	23	130	650*590*1335	3	
Water bath	PR522-095	Soft water	RT+10~95	0.005	0.01	0.007	130*480		150	650*600*1280	1.5	
Refrigerated Temperature Calibration Bath	PR532-N00	Antifreeze	0~100	0.01	0.01	0.01	130*480	18	122	650*590*1335	2	
	PR532-N10		-10~100								2	
	PR532-N20		-20~100								2	
	PR532-N30		-30~95								2	
	PR532-N40	Anhydrous alcohol/soft water	-40~95						187.3		810*590*1280	2
	PR532-N60	-60~95	3									
	PR532-N80	-80~95	4									
Portable oil bath	PR551-300	Silicone oil	80~300	0.01	0.01	0.02	80*280	5	15	365*285*440	1.0	
Portable cooling bath	PR551-N30	Soft water	-30~100	0.01	0.01	0.02	80*280	5	18		1.5	
	PR551-150	Low temp. Silicone oil	-30~150								1.5	

Packing details:

