

# **PR543 Triple-Point of Water Maintenance Bath**

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**PANRAN**

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

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PR543 Triple-Point of Water Maintenance Bath uses antifreeze or ethanol as the working medium, and controls the medium for refrigeration or insulation via the PR2602 control module to realize the freezing and storage process of triple-point of water cells. Featuring a touch screen design with a clear and aesthetically pleasing interface, making it easy to operate. It can automatically complete the cooling, freezing, and insulation processes according to user-set programs.

## I. Product Features

### ■ Simple and Easy to Operate

Featuring an intuitive touchscreen interface, the freezing process is completed by simply agitate the triple-point of water cell once as prompted by the screen.

Additionally, the PR543 has a power-off memory function. If the device unexpectedly loses power during operation, users can choose to resume or restart the process after power restoration.

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■ **Timer Function**

Supports pre-setting start/stop times to minimize waiting during the freezing process.

■ **Over-Time and Over-Temperature Protection**

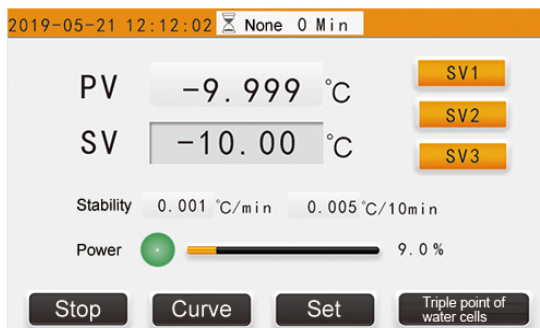
A variety of protection measures can protect the triple-point of water cell from freezing for too long or too low temperature.

■ **Extensive Applications**

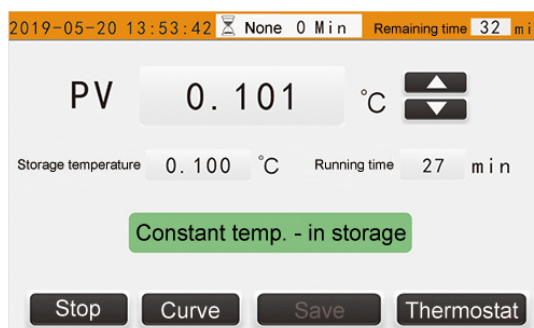
Can be used not only for freezing triple-point of water cells but also as a standard refrigeration bath.

■ **Fine-Tuning Function for Working State of The Triple-Point of Water Cell**

During long-term storage, if there is a change in the state of the triple-point of water, users can manually fine-tune the temperature of the maintenance bath based on the actual situation to maintain the triple-point of water cell in optimal working condition.




▲ Main Screen Display



▲ Touch Screen

**II. Technical Parameters**

Item	Parameters	Optional
Temperature Control Range	-10°C~100°C	 <p>Triple-Point of Water Cell</p>
Temperature Sensor	Wire-wound PT100 platinum resistor with an annual stability of 0.02°C	
Temperature Stability	0.01°C/10min	
Temperature Uniformity	0.01°C	
Quantity of Single Freezing & Storage	1	
Temperature Control Resolution	0.001°C	
Medium	Antifreeze/Ethanol	
External Dimensions	500mm×426mm×885mm	
Weight	59.8kg	
Power	1.8 kW	
Working Cavity Volume	18L	

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