

## **Infrared Thermometer Calibration Bath |** **Black-body Cavity Radiation Calibration Bath**

**(BRTS Series| -80~100℃)**



### **Product Description**

BRTS series Black-body Cavity Calibration Bath is mainly used for calibrating non-contact infrared human body temperature measuring instruments such as red external ear thermometer and infrared forehead thermometer.

BRTS series cooling thermostatic bath is a high-precision thermostatic bath developed for customers with high uniformity requirements ( **Standard Specification for Infrared Thermometers ASTM E 1965-98 of Blackbody Calibrator**). The temperature field uniformity is up to 0.01℃. And the structure is reasonable, saving laboratory space. LCD display, easy to operate. It adopts the refrigeration system of imported fully enclosed compressor and intelligent PID adjustment to realize automatic temperature control and stable performance. It can be used by metrology department to check and calibrate standard mercury thermometers, **Forehead thermometers, Infrared Surface Thermometers, Ear Thermometers**, beckman thermometers and industrial platinum thermal resistance.

## Product Features

1. **Standard Specification for Infrared Thermometers ASTM E 1965-98 of Blackbody Calibrator**
2. **The upgraded temperature control software has linear calibration function.**
3. The computer system is convenient to correct the error between display temperature and actual temperature, and the resolution of temperature correction is up to 0.001 C.
4. High quality resistant stainless steel liner with volume from 6L to 30L is available.
5. Fully enclosed compressor with high speed and low noise.
6. Internal circulation system only
7. Big screen LCD display, easy to operate.
8. Over temperature protection system with alarm and automatic cut-off.
9. RS232 or RS485 communication interface is optional and can realize the remote control.
10. The inner groove can be equipped with lifting bracket to adjust the height of special experimental samples.
11. **We offer cone-shaped blackbody chamber to provide constant temperature environment.**

## Application

It is applicable to the calibration of contactless infrared thermometer by manufacturers, measuring units and medical and health departments. **The instrument meets the calibration regulations of JJG 865-2015 radiation thermometers for operation, the us astm 1965 and the eu en12470-5 international standard.** The high precision cooling thermostatic bath is suitable for measuring, biochemical, petroleum, meteorology, energy, environmental protection, medicine and other departments and manufacturers of thermometers, temperature controllers, temperature sensors and other manufacturers to test and calibrate physical parameters. It can also provide constant temperature source for other experimental research work. Example 1. Second-class standard mercury thermometer, beckman thermometer, industrial platinum thermal resistance, standard copper-constantan thermocouple verification, etc.

**Technical Specification**

Model	Temperature Range °C	Temperature Volatility °C	Digital Resolution (°C)	Tank Lid Size (mm <sup>2</sup> )	Tank Depth (mm)	Volume (L)
BRTS-0506	-5~100	±0.005~0.01	0.001	180×150	150	6
BRTS-0510	-5~100	±0.005~0.01	0.001	180×150	200	10
BRTS-0515	-5~100	±0.005~0.01	0.001	235×180	200	15
BRTS-0520	-5~100	±0.005~0.01	0.001	235×180	300	20
BRTS-0530	-5~100	±0.005~0.01	0.001	310×280	230	30
BRTS-1006	-10~100	±0.005~0.01	0.001	180×150	150	6
BRTS-1010	-10~100	±0.005~0.01	0.001	180×150	200	10
BRTS-1015	-10~100	±0.005~0.01	0.001	235×180	200	15
BRTS-1020	-10~100	±0.005~0.01	0.001	235×180	300	20
BRTS-1030	-10~100	±0.005~0.01	0.001	310×280	230	30
BRTS-2006	-20~100	±0.005~0.01	0.001	180×150	150	6
BRTS-2010	-20~100	±0.005~0.01	0.001	180×150	200	10
BRTS-2015	-20~100	±0.005~0.01	0.001	235×180	200	15
BRTS-2020	-20~100	±0.005~0.01	0.001	235×180	300	20
BRTS-2030	-20~100	±0.005~0.01	0.001	310×280	230	30
BRTS-3006	-30~100	±0.005~0.01	0.001	180×150	150	6
BRTS-3010	-30~100	±0.005~0.01	0.001	180×150	200	10
BRTS-3015	-30~100	±0.005~0.01	0.001	235×180	200	15

BRTS-3020	-30~100	±0.005~0.01	0.001	235×180	300	20
BRTS-3030	-30~100	±0.005~0.01	0.001	310×280	230	30
BRTS-4006	-40~100	±0.005~0.01	0.001	180×150	150	6
BRTS-4010	-40~100	±0.005~0.01	0.001	180×150	200	10
BRTS-4015	-40~100	±0.005~0.01	0.001	235×180	200	15
BRTS-4020	-40~100	±0.005~0.01	0.001	235×180	300	20
BRTS-4030	-40~100	±0.005~0.01	0.001	310×280	230	30
BRTS-6006	-60~100	±0.005~0.01	0.001	180×150	150	6
BRTS-6010	-60~100	±0.005~0.01	0.001	180×150	200	10
BRTS-6015	-60~100	±0.005~0.01	0.001	235×180	220	15
BRTS-6020	-60~100	±0.005~0.01	0.001	235×180	300	20
BRTS-6030	-60~100	±0.005~0.01	0.001	310×280	230	30
BRTS-8006	-80~100	±0.005~0.01	0.001	180×150	150	6
BRTS-8010	-80~100	±0.005~0.01	0.001	180×150	200	10
BRTS-8015	-80~100	±0.005~0.01	0.001	235×180	220	15
BRTS-8020	-80~100	±0.005~0.01	0.001	235×180	300	20
BRTS-8030	-80~100	±0.005~0.01	0.001	310×280	230	30

## Service

1. 12 months warranty for thermostatic instrument.
2. Technical support is also available timely.
3. Reply your enquiry within 24 working hours.
4. OEM is available if the quantity is large.
5. Package and shipping worldwide.