

Temperature calibrator TP 37200E.2 // TP 37200E.2i TP Premium // Dry block // -55...200 °C // -67...392 °F



TP 37200E.2 / TP 37200E.2i - Highlights

- Patented control technology - Fastest stabilisation times on the market - Time savings of up to 50 %
- -55...200 °C (-67...392 °F) is the widest temperature range with cooling and heating function on the market
- World's fastest dry-block temperature calibrator
- Unique hybrid technology: combination of high-performance resistance heating with Peltier elements specially optimised for the cooling process for fastest cooling and heat-up times
- Patented touch screen function for simple and convenient operation
- Accessories: device under test management with barcode scanner
- Available with integrated measuring instrument → TP 37200E.2i

TP Premium

The calibrators of the TP Premium series are characterised by their **unparalleled performance** and **outstanding operating comfort**. By means of the **intuitive menu structure**, all necessary inputs can be made quickly and easily. The **large touch screen** has plenty of room to display the reference, target and devices under test temperatures. At the end of a calibration process,

the TP Premium **provides the complete calibration certificate**. The continuously growing bandwidth of supported temperature ranges supports an increasing number of temperature sensors on the market. They can be calibrated with a resolution of up to 0.001 °C / K and thus meet the highest requirements, e.g. of the **food and pharmaceuticals industry**.

SIKA temperature calibrators

Temperature calibrators are used for the verification of the functionality and calibration of temperature measuring devices and temperature sensors. As the sole German manufacturer of these devices, we develop and produce our "Made in Germany" temperature calibrators with a special focus on **long-term reliability** and **utmost accuracy** in combination with **easy operation**. We can rely on more than 40 years of experience in doing this: SIKA's **first dry block temperature calibrator** was launched all the way back in 1980.

Every SIKA temperature calibrator is meticulously tested for **accuracy** and **stability**. This is attested by our standard calibration certificate, which we issue with every temperature calibrator, or by means of an optional DAkkS calibration certificate [German accreditation body]. This is to guarantee that you receive a **perfect product** which can be traced back to national and international temperature measurement standards.

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Features



SIKA OS with touch screen: Child's play operation

SIKA OS with touch screen

- Simple operation of the temperature calibrator via the integrated 7" touch screen
 - Intuitive operation of the calibration functions
 - Management of calibration data directly on the calibrator
- Clear display
 - All important information at a glance
- Completely paperless calibration
 - Value calculation and transmission errors are excluded
- Glass surface made of multi-panel safety glass
 - Extremely robust against damage
 - Easy cleaning of the surface
 - Suitable for use in the food industry

Automatic calibration with camera

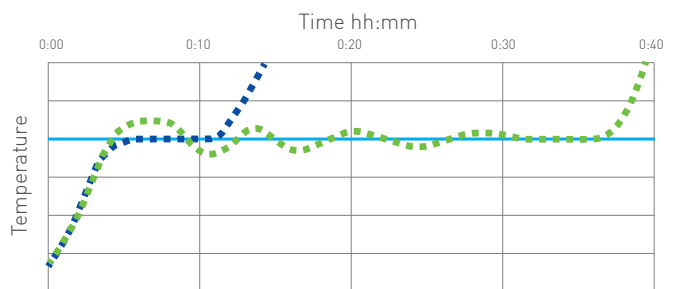
In calibration processes for devices under test with their own temperature display, the display of the DUT must be read for each calibration point. The read value is transferred by the user to the calibrator or the calibration certificate, and the subsequent calibration point is only approached after a manual acknowledgement. For this purpose, the user must return to the calibrator at each calibration point. In some cases, this can lead to long delays if the user carries out other tasks in between. With our automatic calibration with a camera, these time-intensive intermediate steps are no longer needed:

- The patented camera system automatically creates a recording of the DUT display at each calibration point. The subsequent calibration point is approached directly afterwards
 - No user interaction is required during the calibration process, as it is implemented automatically
 - All test points are approached without waiting times
- Upon completion of the entire calibration process, the user transmits the data of the created display records to the calibrator or calibration certificate
 - During the entire calibration process, the user is free to carry out other tasks
- The visual records of the device under test display at each calibration point are saved and attached to the calibration certificate as verification



Temperature control with "rocket controller"

- Temperature regulator with model-based state control
- Special regulation algorithm based on knowledge and experience from space travel
- Unique temperature stability of $< 0.001 \text{ } ^\circ\text{C} / \text{K}$
- Anticipatory activation of the heating and cooling elements
 - The settling time to the target temperature is reduced by approx. 90% at each calibration point
 - Time savings of up to 50% with each calibration process



Without rocket controller: Long settling time to the target temperature
 With rocket controller: Settling time to the target temperature reduced by approx. 90%

Features

TT-Scan multi-channel measuring instrument

- To calibrate devices under test that do not have their own temperature display, you need to connect them to a measuring instrument
- This is done by our TT-Scan multi-channel measuring instrument: With this instrument, you can calibrate up to eight DUTs without a display unit of their own
- The TT-Scan is connected to a temperature calibrator, and the temperatures of the DUTs are directly shown on the display of the temperature calibrator.
- Compatible with DUTs with all common signals: Resistance thermometer, thermocouple and current signals
- The simultaneous calibration of several DUTs enables great time savings



Unique hybrid technology

- The best of two worlds: With our unique hybrid technology, we combine the benefits of a powerful resistance heating with special Peltier elements that have been optimised for the cooling process.
- All heating and cooling processes of the temperature calibrator are significantly accelerated.
 - Time and cost savings with every calibration
 - Reduced standstill times in your company

WebApp - Plug and play for your temperature calibrator

- With the WebApp, ongoing or completed calibration processes can be comfortably displayed on a PC or a smart phone
- The connection is made via LAN or WLAN (via router)
- The WebApp is opened via the browser of your PC or mobile phone. Installation of drivers or software is not required
- Compatible with all current operating systems (Windows, Mac OS, Linux, iOS and Android)






SIKA Gold Service

SIKA Gold Service provides a comprehensive service package for the regular recalibration of your temperature calibrator. You will benefit from exclusive savings and discounts as well as special promotions reserved to SIKA Gold Service members.

- You will save 33% in the recalibration of your temperature calibrator
- You will receive a 10% discount on any repairs that may become necessary
- You will receive preferential invitations to product presentations, symposia, practice days and exclusive training offers

Register now and benefit from the SIKA Gold Service: gold-service.sika.net

Technical data

TP 37200E.2 / TP 37200E.2i			
Temperature range	-55...200 °C at ambient temperature 20 °C		-31...329 °F at ambient temperature 68 °F
Dimension of the calibration insert	Ø 28 x 150 mm (calibration insert easily exchangeable)		
Dry block	External reference temperature sensor		Internal reference temperature sensor
Display accuracy	±0.2 °C	±0.36 °F	±0.3 °C ±0.54 °F
Temperature stability	±0.005 °C	±0.009 °F	±0.010 °C ±0.018 °F
Stabilisation time (with external reference temperature sensor)			
→ to ±0.05°C	→ to ±0.09 °F	From 1 min	
→ to ±0.005°C	→ to ±0.009 °F	From 5 min	
Heating time			
→ 20 °C...200 °C	→ 68...392 °F	9 min	
→ -55 °C...200 °C	→ -67...392 °F	12 min	
Cooling time			
→ 20 °C...-55 °C	→ 68...-67 °F	35 min	
→ 200 °C...20 °C	→ 329...68 °F	18 min	
Resolution of the temperature display	0.1 / 0.01 / 0.001 °C (selectable)		0.1 / 0.01 / 0.001 °F (selectable)
Hysteresis			
→ internal reference temperature sensor	±0.25 °C	±0.45 °F	
→ external reference temperature sensor	±0.025 °C	±0.045 °F	
Temperature units	°C / °F / K (selectable)		
Reference temperature sensor	internal, fixed installation / external (selectable)		
Interfaces	Ethernet, 3 x USB		
Connectivity	OPC UA, serial communication, HTTP. Details and further possibilities on request.		
Dimensions			
→ Width	210 mm		
→ Height	380 + 50 mm (Handle)		
→ Depth	300 mm		
Weight	Approx. 15 kg		
Power supply	100...240 VAC, 50 / 60 Hz		
Power consumption	Approx. 555 W		
Adjustable temperature range	-60...200 °C		-76...392 °F
Display	Brilliant color touchscreen (7 inches), multi panel safety glass		
Approvals			
  			

Temperature calibrator TP 37200E.2i // Integrated measuring instrument

Technical data

Device under test inputs - Resistance thermometers		
Number of channels	2	
Connection	4 mm safety socket, 4 per channel	
Connection type	2-, 3-, 4-wire technology	
Resistance range		
→ Pt100	0...400 Ω	
→ Pt1000	0...4000 Ω	
Accuracy		
→ Pt100	±0.03 °C	±0.054 °F
→ Pt1000	±0.06 °C	±0.108 °F
Device under test inputs - Thermocouple		
Number of channels	2	
Connection	2x thermocouple socket (mini)	
Measuring range	-10...100 mV	
Accuracy cold junction	±0.3 °C	±0.054 °F
Accuracy		
→ Type K	±0.08 °C	±0.144 °F
→ Type J	±0.07 °C	±0.126 °F
→ Type N	±0.13 °C	±0.234 °F
→ Type E	±0.06 °C	±0.108 °F
→ Type T	±0.09 °C	±0.162 °F
→ Type R	±0.78 °C	±1.404 °F
→ Type S	±0.73 °C	±1.314 °F
Standard signal input (Current)		
Number of channels	1	
Connection	4 mm safety socket	
Measuring range	0...24 mA	
Accuracy	0.01 % of range	
Standard signal input (Voltage)		
Number of channels	1	
Connection	4 mm safety socket	
Measuring range	0...12 VDC	
Accuracy	0.01 % of range	
Switch test		
Number of channels	2	
Transmitter supply		
Output current	Max. 24 mA	
Output voltage	24 VDC	

The integrated measuring instrument in detail

Resistance thermometers, thermocouples and signals from temperature transmitters must be operated with an external measuring instrument which measures the output signals and displays them as temperature during the calibration. This temperature can then be compared to the set calibrator temperature.

Our integrated measuring instrument assumes the tasks of an external measuring instrument. It shows the temperature directly on the calibrator display and enables the fully automatic calibration of two devices under test at the same time.

Your benefits of the integrated measuring instrument at a glance:

- Temperature sensor calibration without additional measuring instrument
- Simultaneous calibration of several temperature sensors
- Fully automatic calibration and certification
- Enables the simplification of your work processes
- Offers great time savings compared to a temperature calibrator without integrated measuring instrument

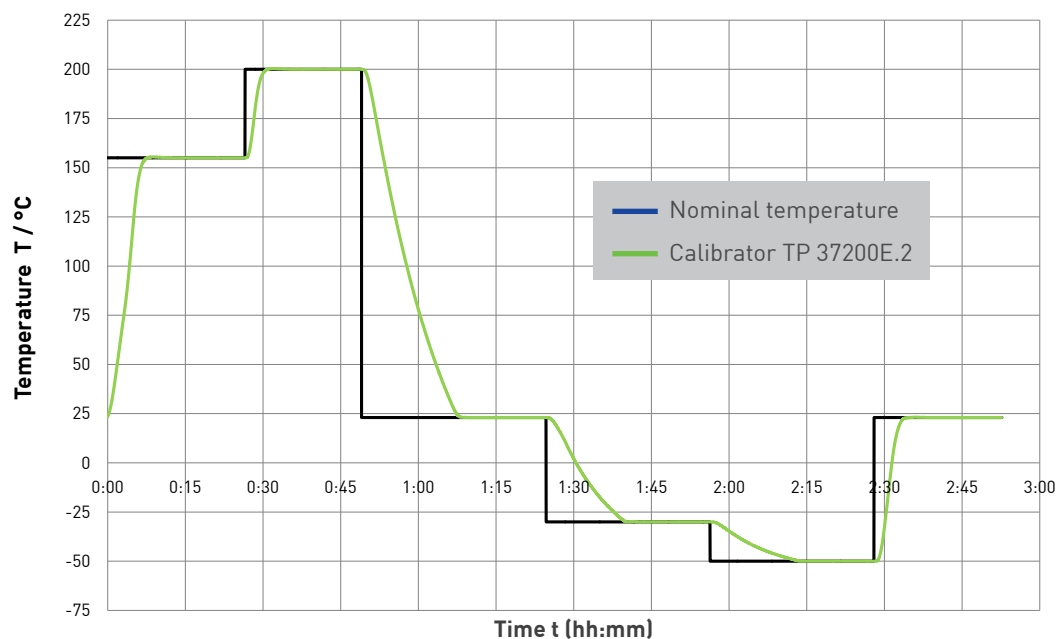
The following DUTs can be connected to the integrated measuring instrument:

- Resistance thermometer (RTD): Pt100, Pt500 and Pt1000 in 2-, 3- or 4-wire circuit
- Thermocouples (TC) of the types K, J, N, E, R, T, B, S, L and U
- 0(4)...20 mA current signals from temperature transmitters (mA), with and without supply voltage
- 0...10 V voltage signals
- Temperature switch (switch) with normally open and normally closed contacts

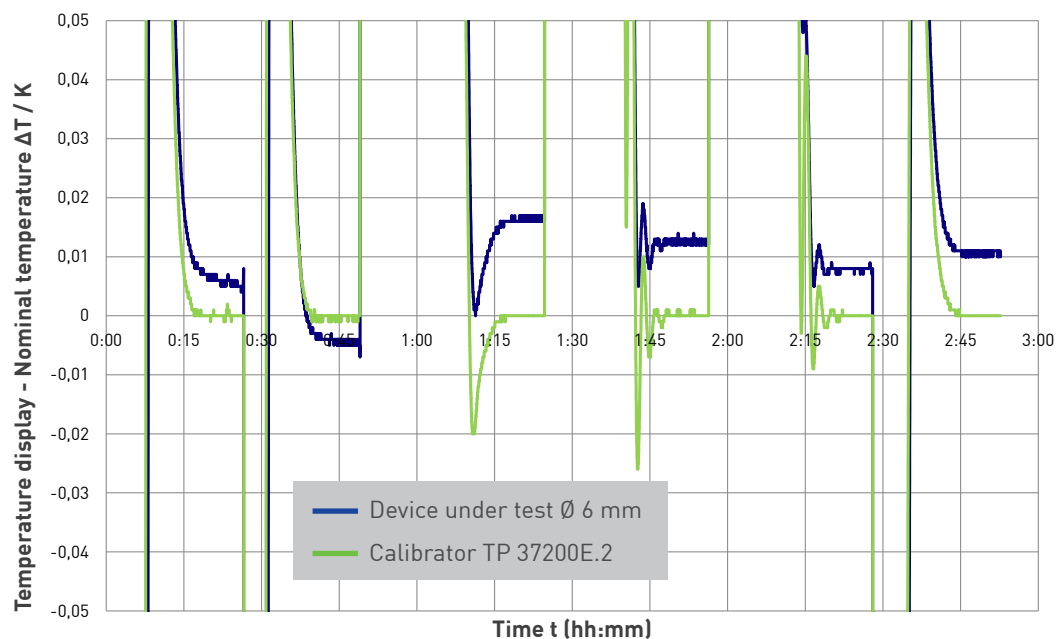


Temperature steps TP 37200E.2 with external reference temperature sensor

Step test with commercially established limit temperatures and 15 minutes additional holding time after stabilization.



Detailed image from step test: Fast settling to ± 0.005 °C.



Article numbers

To order a complete calibrator, you need three article numbers:

1. Calibrator
2. Linearisation
3. Calibration insert

In addition, depending on your individual calibration requirements, you can order additional calibration inserts, necessary certificates and other accessories.

1. Calibrator						
Temperature range	Function	Calibration insert [mm]	Power supply	Integrated measuring instrument	Article number	
-55...200 °C	-67...392 °F	Dry block	Ø 28 x 150	110...240 V	Without	EP3720 0 22815U3
-55...200 °C	-67...392 °F	Dry block	Ø 28 x 150	110...240 V	With	EP3720 I 22815U3

Notice: Every “linearisation” article number with 13 digits starts with “EK1”, while the following letters (“short designation”) indicate the selected calibration function. You may also select several functions of one category. Please indicate the calibration functions in alphabetical order and fill in any possibly remaining positions with “0”.

2. Linearisation											
Calibration function	Calibration insert / calibration medium			Reference temperature sensor			Short designation				
Dry block	Cylindrical calibration insert			external			B				
	Cylindrical calibration insert			internal			C				
Example article number linearisation											
Function:		1	2	3	4	5	6	7	8	9	10
Article number:	EK1	B	C	0	0	0	0	0	0	0	0

3. Calibration insert				
Bore holes [mm]	Function	Calibration insert [mm]	Material	Article number
1x Ø 3.5, 1x Ø 6.5, 1x Ø 13.5	Dry block	Ø 28 x 150	Brass	EZ15028B03MS17
1x Ø 6.5	Dry block	Ø 28 x 150	Brass	EZ15028065MS00
2x Ø 3.5	Dry block	Ø 28 x 150	Brass	EZ15028B02MS09
1x Ø 3.5, 1x Ø 4.5	Dry block	Ø 28 x 150	Brass	EZ15028F02MS80
1x Ø 3.5, 1x Ø 6.5	Dry block	Ø 28 x 150	Brass	EZ15028H02MS01
1x Ø 3.5, 1x Ø 8.5	Dry block	Ø 28 x 150	Brass	EZ15028B02MS67
1x Ø 3.5, 1x Ø 6.5, 1x Ø 8.5, 1x Ø 10.5	Dry block	Ø 28 x 150	Brass	EZ15028C04MS15
Without bore holes	Dry block	Ø 28 x 150	Brass	EZ15028000MS00
Calibration insert incl. 1 bore hole of choice	Dry block	Ø 28 x 150	Brass	Please indicate bore
Each additional bore hole	Dry block	Ø 28 x 150	Brass	holes in the order

4. Calibration certificate - Select your calibration certificates as needed Each calibrator is already delivered with a standard calibration certificate (6 test points).	Article number
SIKA works calibration certificate (similar to standard certificate + marking on the calibrator), 1st calibrator function	EKTPWP1FKT
SIKA works calibration certificate (similar to standard certificate + marking on the calibrator), 2nd calibrator function	EKTPWP2FKT
DAkKS calibration certificate (3 test points + measurement uncertainty determination) for 1st calibrator function	EKTPDAKKS1FKT
DAkKS calibration certificate (3 test points + measurement uncertainty determination) for 2nd calibrator function	EKTPDAKKS2FKT
Each additional test point DAkKS calibration certificate	EKTPDAKKSZUSP
SIKA Gold Service works calibration certificate	EKTPGOLDWP
SIKA Gold Service DAkKS	EKTPGOLDDAKKS
SIKA works calibration certificate integrated measuring instrument (Pt100, type K)	EKTPWPMI1
SIKA works calibration certificate integrated measuring instrument (Pt100, Pt1000 type K, type J)	EKTPWPMI2
SIKA works calibration certificate integrated measuring instrument (Pt100, type K, mA, V)	EKTPWPMI3
SIKA works calibration certificate integrated measuring instrument (Pt100, Pt1000 type K, type J, mA, V)	EKTPWPMI4
SIKA works calibration certificate for each additional measurement input of your choice (Pt500, Pt1000, type J/N/E/T/R/S, mA, V)	EKTPWPMIZUS
SIKA works calibration certificate complete (Pt100, Pt500, Pt1000, type K/J/N/E/T/R/S, mA, V)	EKTPWPMIKOMPL
DAkKS calibration certificate integrated measuring instrument (Pt100, type K)	EKTPDAKKSMI1
DAkKS calibration certificate integrated measuring instrument (Pt100, Pt1000 type K, type J)	EKTPDAKKSMI2
DAkKS calibration certificate integrated measuring instrument (Pt100, type K, mA, V)	EKTPDAKKSMI3
DAkKS calibration certificate integrated measuring instrument (Pt100, Pt1000 type K, type J, mA, V)	EKTPDAKKSMI4
DAkKS calibration certificate for each additional measurement input of your choice (Pt500, Pt1000, type J/N/E/T/R/S, mA, V)	EKTPDAKKSIMIZUS
DAkKS calibration certificate complete (Pt100, Pt500, Pt1000, type K/J/N/E/T/R/S, mA, V)	EKTPDAKKS KOMPL
5. Accessories	Article number
Transport case without trolley	EZTPKOFFER20
Transport case with trolley	EZTPKOFFER20TG
External reference temperature sensor TF 255-3-300 (-55...255 °C / -67...491 °F)	W033P413000GX002
External reference temperature sensor TF 255-3-300 (-55...255 °C / -67...491 °F), 90° angle	W033P413000GX0WI
Network switch	XE2103
Barcode scanner	XE2102
W-LAN router	XE2101
DUT temperature sensor for demo purposes (Pt100 3-phase) for integrated measuring instrument	WMQMP31020050003
Instruction in the temperature calibrator by SIKA field service	EKTPPEINWEISUNG
Frame packaging for return of calibrator (e.g. for recalibration)	098V
Please indicate the calibrator model when ordering.	

Overview of SIKA temperature calibrators

Our series: Basic. Solid. Premium.

- **Dry block calibrators** of the **TP Basic** series impress with their **uncomplicated operation** and **high cost-effectiveness**. They are particularly suitable for use on ships or in industrial applications.
- Equipped with a **PC interface**, the **dry block calibrators** and **calibration baths** of the **TP Solid** series cover a wide temperature range with high accuracy.
- For the highest demands on accuracy and flexibility: The dry-block and multi-function temperature calibrators of the **TP Premium** series represent the pinnacle of our technical development. Equipped with an **integrated touch screen**, a **PC interface**, an **external reference sensor** and **integrated measuring instrument**, this series offers **extreme accuracies for all calibration tasks**.

Temperature range (RT=Room temperature)	Function	Accuracy		Features	Block dimensions [Ø mm x depth mm]	Type	
-55 °C ... 200 °C -67 °F ... 392 °F	Dry block	±0.4 °C	±0.72 °F	TP Basic	28 x 150	TP 17200	
	Dry block	±0.2 °C	±0.36 °F	TP Solid	28 x 150	TP 17200S	
	Dry block	±0.2 °C	±0.36 °F	TP Premium	28 x 150	TP 37200E.2	
-35 °C ... 155 °C -31 °F ... 311 °F	Calibration bath	±0.1 °C	±0.18 °F	TP Solid	60 x 170	TP M165S	
-35 °C ... 165 °C -31 °F ... 329 °F	Dry block	±1 °C	±1.80 °F	TP Basic	28 x 150	TP 17165M	
	Dry block	±0.4 °C	±0.72 °F	TP Basic	28 x 150	TP 17165	
	Dry block	±0.2 °C	±0.36 °F	TP Solid	28 x 150	TP 17165S	
	Dry block	±0.2 °C	±0.36 °F	TP Premium	28 x 150	TP 37165E.2	
	Dry block ext. Dry block int. Air Shield Insert Calibration bath Infrared Surface	±0.2 °C ±0.3 °C ±0.099 °C ±0.1 °C ±0.5 °C ±1 °C	±0.36 °F ±0.54 °F ±0.1782 °F ±0.18 °F ±0.9 °F ±1.88 °F	TP Premium	60 x 170	TP 3M165E.2	
-30 °C ... 165 °C -22 °F ... 329 °F	Dry block	±0.4 °C	±0.72 °F	TP Basic	60 x 150	TP 17166	
	Dry block	±0.2 °C	±0.36 °F	TP Solid	60 x 150	TP 17166S	
-10 °C ... 100 °C 14 °F ... 212 °F	Dry block	±0.05 °C	±0.09 °F	TP Solid	7 x 6.5 x 150	TP 17Zero	
RT ... 200 °C RT ... 392 °F	Dry block	±1 °C	±1.80 °F	TP Basic	18 x 150	TP 18200E	
RT ... 255 °C RT ... 491 °F	Calibration bath	±0.2 °C	±0.36 °F	TP Solid	60 x 170	TP M255S	
	Dry block ext. Dry block int. Air Shield Insert Calibration bath, tub insert, ext. Calibration bath, tub insert, int. Calibration bath, direct filling, ext. Calibration bath, direct filling, int. Infrared Surface	±0.25 °C ±0.5 °C ±0.08 °C ±0.35 °C ±0.53 °C ±0.18 °C ±0.46 °C ±0.5 °C ±1 °C	±0.45 °F ±0.9 °F ±0.144 °F ±0.63 °F ±0.954 °F ±0.324 °F ±0.828 °F ±0.9 °F ±1.8 °F	TP Premium	60 x 170	TP 3M255E.2	
	Dry block	±0.6 °C	±1.08 °F	TP Basic	60 x 150	TP 17450	
	Dry block	±0.3 °C	±0.54 °F	TP Solid	60 x 150	TP 17450S	
	Dry block Air Shield Insert Infrared Surface	±0.3 °C ±0.2 °C ±0.5 °C ±1 °C	±0.54 °F ±0.36 °F ±0.9 °F ±1.8 °F	TP Premium	60 x 150	TP 37450E.2	
	RT ... 650 °C RT ... 1202 °F	Dry block	±1 °C	±1.8 °F	TP Basic	28 x 150	TP 17650M
		Dry block	±0.8 °C	±1.44 °F	TP Basic	28 x 150	TP 17650
		Dry block	±0.4 °C	±0.72 °F	TP Solid	28 x 150	TP 17650S
	RT ... 700 °C RT ... 1292 °F	Dry block	±0.43 °C	±0.744 °F	TP Premium	29 x 150	TP 37700E.2
Air Shield Insert		±0.27 °C	±0.486 °F				
RT ... 850 °C RT ... 1562 °F	Dry block	±1 °C	±1.8 °F	TP Basic	18 x 100	TP 18850E	
400 °C ... 1300 °C 752 °F ... 2372 °F	Dry block	±2 °C	±3.6 °F	TP Solid	28 x 200	TP 281300E	

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