

PYROS 125

It covers a range from -24 to 125 °C. It has a stability of $\pm 0,05$ °C and a precision of $\pm 0,25$ °C.

The time taken to reach -20 °C is just 17 minutes and the time to reach 120 °C is just 20 minutes: this allows considerable savings in terms of time during calibration that requires more than one verification point.

The excellent performances of Pyros 125 are due to the Peltier cells that heat and cool the thermal block and to the material with which the thermal block itself is made.

This material provides an axial and radial uniformity typical of higher end calibrators.

The calibrator has two parallel holes with a diameter of 13 mm in which the reduction inserts are inserted to adapt the diameter of the probe to be calibrated to the calibrator.

There are 7 inserts available with holes ranging from a diameter of 3.2 to 11.1 mm, while other holes are provided upon request up to 1 mm in diameter.



PYROS 375

It covers a range from 10 °C above ambient temperature up to 375 °C. It has a stability $\pm 0,15$ °C and an accuracy of $\pm 0,25$ °C at 150 °C and of $\pm 0,5$ °C at 375 °C.

The time taken to reach 375 °C is just 20 minutes and it takes 40 minutes to reach 100 °C from 375 °C. This allows to save time during calibration operations that requires more than one verification point.

The calibrator has a hole with a diameter of 26x150 mm in which the reduction inserts are inserted to adapt the diameter of the probe to be calibrated to the calibrator.

There are 3 inserts available with holes ranging from a diameter of 3,2 to 12,7 mm while other holes are

provided upon request up to 1 mm in diameter.

The appliance innovative ventilation system allows the calibrator to keep the temperature on the top of the oven lower compared to competitors' oven. The flow of air on the upper part of the oven is diverted to the rear of the appliance by a tangential flow that touches the calibration well.

As a result, the heads of the thermocouples, which contain the connection terminals of the compensated cables, remain at a considerably lower temperature reducing very much the compensation errors produced by the heads heating.

PYROS 650

It covers a range from 15 °C above ambient temperature up to 650 °C. It has a stability of $\pm 0,3$ °C and a all-range accuracy of $\pm 0,9$ °C.

The time taken to reach 650 °C is just 35 minutes and it takes about 60 minutes to reach 100 °C from 650 °C. This allows to save time during calibration operations that require more than one verification points.

The calibrator has a hole with a diameter of 26x150 mm in which the reduction inserts are inserted to adapt the diameter of the probe to be calibrated to the calibrator.

There are 6 inserts available with holes ranging from a diameter of 3,2 to 17,5 mm while other holes are

provided upon request up to 1 mm in diameter.

The appliance innovative ventilation system allows the calibrator to keep the temperature on the top of the oven lower compared to competitors' oven. The flow of air on the upper part of the oven is diverted to the rear of the appliance by a tangential flow that touches the calibration well.



As a result, the heads of the thermocouples, which contain the connection terminals of the compensated cables, remain at a considerably lower temperature reducing very much the compensation errors produced by the heads heating.



COMPARISON TABLE:

Technical specification	PYROS 125	PYROS 375		PYROS 650
Operating range (t amb. 20 °C)	-24 °C ÷ +125 °C	amb.+10 °C ÷ +375 °C		amb.+15 °C ÷ +650 °C
Mean heating time (stabilization included)	From amb. to 120 °C 20 min	From 30 °C to 375 °C 20 min		From 50 °C to 650 °C 35 min
Mean cooling time (stabilization included)	From amb. to -20 °C 17 min	From 375 °C to 100 °C 40 min		From 650 °C to 100 °C 60 min
Axial uniformity (a 40 mm)	±0,05 °C at -20 °C	±0,10 °C at 50 °C	±0,02 °C at 50 °C	±0,13 °C at 250 °C
	±0,04 °C at 0 °C	±0,20 °C at 150 °C	±0,05 °C at 150 °C	±0,15 °C at 450 °C
	±0,10 °C at 100 °C	±0,30 °C at 375 °C	±0,15 °C at 375 °C	±0,35 °C at 650 °C
Uniformity between holes (at 40 mm)	±0,02 °C at -20 °C	Not available		Not available
	±0,02 °C at 0 °C			
	±0,05 °C at 100 °C			
Radial uniformity (at 40 mm)	Not available	±0,10 °C at 50 °C	±0,05 °C at 50 °C	±0,22 °C
		±0,15 °C at 150 °C	±0,10 °C at 150 °C	
		±0,20 °C at 375 °C	±0,15 °C at 375 °C	
Hole depth	104 mm	150 mm		150 mm
Hole diameter	2 x 13 mm	26 mm		26 mm
Display accuracy	±0,25 °C ±1 digit	±0,25 °C at 150 °C	±0,25 °C at 150 °C	±0,90 °C ±1 digit
		±0,50 °C at 375 °C	±0,50 °C at 375 °C	
Stability	±0,05 °C	±0,15 °C	±0,10 °C	±0,30 °C
Display Resolution	0,1 °C	0,1 °C		0,1 °C
Units of measure	°C / °F	°C / °F		°C / °F
Over temperature cut out	No	Yes		Yes
Switch test	12 V DC	5 V DC		5 V DC
Calibrator size	130 x 260 x 280 mm	130 x 260 x 280 mm		130 x 260 x 280 mm
Calibrator weight	4,9 kg	5,4 kg		6,0 kg
Power supply	100/230 V ±10% 50/60 Hz	115/230 V ±10% 50/60 Hz		115/230 V ±10% 50/60 Hz
Electric power	80 W	600 W		600 W
Diameter of the sensor used:				
PYROS 125: Pt100 probe Ø 3 mm				
PYROS 375: Pt100 probe Ø 6 mm / Pt100 probe Ø 3 mm				
PYROS 650: TcN probe Ø 4,5 mm				
Ambient temperature: 20 °C				

TRANSPORT:

Rigid case		Shoulder bag	
	<p>Sturdy ABS waterproof and dust proof carrying case with sealing gaskets suited for use in marine applications and in harsh environments.</p> <p>Anti-shock EPM foam on the inside with compartments for the calibrator, the inserts and documentation.</p> <p>Compensation valve for the difference between internal and external pressure.</p> <p>Closing hooks and loop to insert the lock.</p>		<p>Sturdy Cordura® suitcase with two side pockets for the inserts, a front pocket for the documents and a shoulder carrying strap.</p> <p>Particularly lightweight, it is suitable to carry and protect the calibrator and its inserts.</p>
Code: 2MFR526J1393		Code: 2TRMBAG-PYROS	
Size: 410 x 535 x 220 mm	Weight: 3 kg	Size: 400 x 170 x 285 mm	Weight: 1 kg
Shipping size: 470 x 640 x 330 mm		Shipping size: 450 x 250 x 415 mm	

HOW TO ORDER:

PYROS 125	PYROS 375	PYROS 650
<p>STANDARD EQUIPMENT:</p> <ul style="list-style-type: none"> • Electric power cable. • Tweezers for insert removing. • Kit of fuses. • Thermostat connection cables. • Instructions manual. • Test report. • Insert 2D3199-003. • Insert 2D3199-004. <p>ORDERING CODES:</p> <ul style="list-style-type: none"> • PYROS 125: calibrator. • 2D3199-000: blank insert. • 2D3199-001: 1 hole insert. • 2D3199-002: 1 hole insert. • 2D3199-003: 1 hole insert. • 2D3199-004: 1 hole insert. • 2D3199-005: 1 hole insert. • 2D3199-006: 1 hole insert. • 2D3199-007: 1 hole insert. • 2MFR526J1393: plastic marine case. • 2TRMBAG-PYROS: Cordura® soft bag. 	<p>STANDARD EQUIPMENT:</p> <ul style="list-style-type: none"> • Electric power cable. • Tweezers for insert removing. • Kit of fuses. • Thermostat connection cables. • Instructions manual. • Test report. • Insert 2D3332. <p>ORDERING CODES:</p> <ul style="list-style-type: none"> • PYROS 375: calibrator. • 2D3333: blank insert. • 2D3332: 4 holes insert. • 2D3331: 2 holes insert. • 2MFR526J1393: plastic marine case. • 2TRMBAG-PYROS: Cordura® soft bag. 	<p>STANDARD EQUIPMENT:</p> <ul style="list-style-type: none"> • Electric power cable. • Tweezers for insert removing. • Kit of fuses. • Thermostat connection cables. • Instructions manual. • Test report. • Insert 2D3133. <p>ORDERING CODES:</p> <ul style="list-style-type: none"> • PYROS 650: calibrator. • 2D2927: blank insert. • 2D2928: 2 holes insert. • 2D2929: 1 hole insert. • 2D2930: 4 holes insert. • 2D3033: 3 holes insert. • 2D3034: 1 hole insert. • 2D3133: 4 holes insert. • 2MFR526J1393: plastic marine case. • 2TRMBAG-PYROS: Cordura® soft bag.
<p>PYROS 125 INSERTS:</p> <p>000 Blank</p> <p>001 Ø 3.2 mm Ø 1/8"</p> <p>002 Ø 4.0 mm Ø 5/32"</p> <p>003 Ø 4.8 mm Ø 3/16"</p> <p>004 Ø 6.4 mm Ø 1/4"</p> <p>005 Ø 7.9 mm Ø 5/16"</p> <p>006 Ø 9.5 mm Ø 3/8"</p> <p>007 Ø 11.1 mm Ø 7/16"</p>	<p>PYROS 375 INSERTS:</p> <p>2D3333 Blank</p> <p>2D3332 Ø 11.1 mm Ø 7/16" Ø 4.8 mm Ø 3/16" Ø 3.2 mm Ø 1/8" Ø 6.4 mm Ø 1/4"</p> <p>2D3331 Ø 12.7 mm Ø 1/2" Ø 6.4 mm Ø 1/4"</p>	<p>PYROS 650 INSERTS:</p> <p>2D2927 Blank</p> <p>2D2928 Ø 12.7 mm Ø 6.5 mm</p> <p>2D2929 Ø 15.7 mm</p> <p>2D2930 Ø 10.5 mm Ø 5.0 mm Ø 3.2 mm Ø 6.5 mm</p> <p>2D3033 Ø 10.5 mm Ø 6.5 mm Ø 4.5 mm</p> <p>2D3034 Ø 17.5 mm</p> <p>2D3133 Ø 10.5 mm Ø 5.0 mm Ø 3.2 mm Ø 7.0 mm</p>

CERTIFICATION:

All the instruments are supplied with final testing, stability and accuracy certification traceable to S.I.T. Standards.



ISO 9001
CERT. N°9115 GIU1



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A QUESTION OF CALIBRATION