

CERTIFICATE OF CALIBRATION

Godrej & Boyce Mfg. Co. Ltd.,
Calibration Services, Plant 18 B, 1st Floor,
Pirojshanagar, Vikhroli,
Mumbai - 400079.
Dir.: +91-22-67965914-48

FR-QT-21				
Certificate No : M-201210-3-1		Date of Issue :		24-Dec-2020
Date of Calibration: 23-Dec-2020		Recom. Due Date :		23-Dec-2021
Customer Details :		Receipt No :		M-201210-3
VeroxLabs (Pvt) Ltd		Date of Receipt :		10-Dec-2020
No 296/7A, Araliya Uyana,		Cond. On Receipt :		Satisfactory
Menikkagara Road, Korathota,		Challan No. :		201222
Kaduwela Sri Lanka 10640		Calibrated at :		Lab
Details of Test Instrument:				
Description: Black Body Calibrator		Serial No :		Z0200908001
Range : 32 TO 42°C		Model :		IRBC37
Make : VeroxLabs				
Least Count: 0.01°C				
Details of Standard Used				
Name	Sr.No.	Valid upto	Traceable to	
4 Wire RTD With Indicator	RTD-01/ B43222	22-Dec-2021	Godrej,Mumbai	
Work Instruction :		WI-TP-04		
Environmental Details :		Temperature: (25±2) °C	Relative Humidity: (60±15)%RH	
Calibration Results: Thermal - Temperature				
1. Determination of temperature of surface				
Range	Std Reading (°C)	UUC Reading(°C)	ERROR (°C)	Uncertainty (±)
32 TO 42°C	31.974	32.00	0.026	0.05°C
	34.963	35.00	0.037	0.05°C
	36.925	37.00	0.075	0.05°C
	38.933	39.00	0.067	0.05°C
	41.923	42.00	0.077	0.05°C
Remarks				
1 Test reading given is the average of 3 Measurements				
2 Calibration Points are taken as per customer request				
3 The reported Expanded Uncertainty is calculated at 95.45 % C.L with coverage factor $k=2$				
4 Stability:0.005°C, Axial Uniformity:0.014°C				
AUTHORIZED SIGNATORY :AK Kulkarni				
DESIGNATION : ASSO. MANAGER				
CALIBRATED BY : Lab Engineer : Omkar Khanolkar				
ULR No:CC263420000053052N				



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2. Determination of Stability Set Temperature:- (32)°C													
Reading1	Reading2	Reading3	Reading4	Reading5	Max-min	Uncertainty(±)							
After10 min	After 20 min	After 30 min	After 40 min	After 50 min	(°C)	0.05°C							
Std Reading	Std Reading	Std Reading	Std Reading	Std Reading									
(°C)	(°C)	(°C)	(°C)	(°C)									
31.975	31.973	31.974	31.977	31.978	0.005								
Set Temperature:(37)°C													
Reading1	Reading2	Reading3	Reading4	Reading5	Max-min	Uncertainty(±)							
After10 min	After 20 min	After 30 min	After 40 min	After 50 min	(°C)	0.05°C							
Std Reading	Std Reading	Std Reading	Std Reading	Std Reading									
(°C)	(°C)	(°C)	(°C)	(°C)									
36.924	36.925	36.926	36.928	36.923	0.005								
Set Temperature:(42)°C													
Reading1	Reading2	Reading3	Reading4	Reading5	Max-min	Uncertainty(±)							
After10 min	After 20 min	After 30 min	After 40 min	After 50 min	(°C)	0.05°C							
Std Reading	Std Reading	Std Reading	Std Reading	Std Reading									
(°C)	(°C)	(°C)	(°C)	(°C)									
41.922	41.921	41.925	41.922	41.926	0.005								
3.Determination of Axial Uniformity:													
Position-1	Position-2	Position-3	Position-4	Position-5	Max-min	Uncertainty(±)							
41.903	41.908	41.923	41.902	41.895	0.014	0.05°C							
<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 20px;">Position of Sensor for Uniformity Check</div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <table style="border-collapse: collapse;"> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> </tr> <tr> <td colspan="2" style="padding: 5px;">3</td> </tr> <tr> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> </tr> </table> </div> </div>								1	2	3		4	5
1	2												
3													
4	5												
AUTHORIZED SIGNATORY :AK Kulkarni DESIGNATION : ASSO. MANAGER CALIBRATED BY : Lab Engineer : Omkar Khanolkar ULR No:CC263420000053052N													



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Remarks:

1. Equipment used for calibration were calibrated & traceable to National & International Standards.
2. This report refers only to particular item (s) submitted for calibration.
3. Godrej Calibration Services is not liable for any change in calibration data & performance specifications on account of malfunctioning of Standards / Instruments / Equipment covered by this report due to damage caused to it after issuance of this report.
4. The calibration results reported are valid at the time of and under the stated conditions of the measurements.
5. This report shall not be reproduced in full / part without prior permission of Godrej Calibration Services.
6. Satisfactory calibration report in no ways implies that the equipment calibrated is approved by NABL.
7. All precautions have been taken for any error or omission while calibrating the instruments and issuing this certificate. However Godrej Calibration Services shall not be liable for any loss or liability that may be arise to any party in this regards.

----- End of Certificate -----



Godrej & Boyce Mfg. Co. Ltd.

Regd. Office: Pirojshanagar, L.B.S. Marg, Vikhroli, Mumbai - 400 079.T.:+91-22-67961700/1800 W:www.godrej.com
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