

Tuesday, December 12, 2023, Time 09:04

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023\_12\_12-EM hala rec\_2

Thickness: 27.08mm

Rear Left : 26.80 mm

Rear Right : 26.82 mm

Front Left: 27.36 mm

Front Right: 27.36 mm

[ ]

[ ]

Thickness obtained : from instrument

## TEST RUN

Calibration used : User Type

Calibration File Id: IRMMCalibration\_sn2520

Number of transducers per plate: 1

Number of transducers used per plate: 1

Number of Setpoints: 3

Setpoint duration: 55 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.52	24.18	-14713	10623	1.029
-ne-	14.99	24.98	-10595	9104	0.6937
-te-	15.01	25.02	-9833	9564	0.6816
-te-	15.01	25.02	-9680	9717	0.6816
-te-	15.01	25.02	-9624	9770	0.6815
-te-	15.00	25.01	-9610	9776	0.6813
-pe-	15.00	25.01	-9608	9780	0.6814
-pe-	15.00	25.01	-9605	9787	0.6817
-pe-	15.01	25.01	-9601	9795	0.6817
-pe-	15.01	25.02	-9600	9797	0.6817
-pe-	15.01	25.02	-9598	9791	0.6812
-pe-	15.01	25.02	-9591	9791	0.6810
-pe-	15.01	25.02	-9594	9785	0.6810

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Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.6753 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.6869 W/mK

Percent Difference: 1.69%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20

Between Block HFM Equil.: 49

HFM Percent Change: 2.00

Min Number of Blocks: 4

Calculation Blocks: 3

Setpoint duration: 59 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.18	20.08	-18782	-3543	0.8015
-te-	9.99	19.99	-12844	6279	0.6782

-te-	10.00	19.99	-10608	8540	0.6786
-te-	10.00	20.00	-9859	9320	0.6790
-te-	10.00	20.01	-9616	9574	0.6792
-te-	10.00	20.01	-9539	9650	0.6791
-te-	10.00	20.01	-9516	9671	0.6791
-pe-	10.00	20.00	-9513	9675	0.6792
-pe-	10.00	20.00	-9510	9677	0.6790
-pe-	10.00	20.00	-9513	9683	0.6797
-pe-	10.00	20.00	-9512	9687	0.6796
-pe-	10.00	20.00	-9510	9696	0.6798
-pe-	10.00	20.01	-9504	9698	0.6795
-pe-	10.00	20.01	-9501	9697	0.6793

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Setpoint No. 2  
Setpoint Upper: 10.00 °C  
Setpoint Lower: 20.00 °C  
Temperature Upper: 10.00 °C  
CalibFactor Upper: 0.026312  
Results Upper: 0.6772 W/mK  
Temperature Lower: 20.01 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.6819 W/mK  
Percent Difference: 0.69%

Thermal Equilibrium Criteria:  
Temperature Equilibrium: 0.20  
Between Block HFM Equil.: 49  
HFM Percent Change: 2.00  
Min Number of Blocks: 4  
Calculation Blocks: 3

Setpoint duration: 46 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.27	15.08	-18684	-3515	0.8114
-ne-	4.90	14.91	-12838	6009	0.6741
-te-	5.00	15.00	-10352	8547	0.6737
-te-	5.00	15.01	-9687	9223	0.6734
-te-	5.00	15.01	-9483	9438	0.6735
-te-	5.00	15.01	-9418	9510	0.6736
-te-	5.00	15.00	-9402	9526	0.6739
-pe-	5.00	15.00	-9398	9534	0.6740
-pe-	4.99	15.00	-9390	9545	0.6741
-pe-	5.00	15.00	-9389	9552	0.6744
-pe-	5.00	15.01	-9392	9548	0.6743

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Setpoint No. 3  
Setpoint Upper: 5.00 °C  
Setpoint Lower: 15.00 °C  
Temperature Upper: 5.00 °C  
CalibFactor Upper: 0.026610  
Results Upper: 0.6764 W/mK  
Temperature Lower: 15.00 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.6721 W/mK  
Percent Difference: 0.64%

Thermal Equilibrium Criteria:  
Temperature Equilibrium: 0.20  
Between Block HFM Equil.: 49  
HFM Percent Change: 2.00  
Min Number of Blocks: 4  
Calculation Blocks: 3

Results Table -- SI Units

Mean Temp	Upper Cond	Lower Cond	Average Cond
20.01	0.6753	0.6869	0.6811
15.01	0.6772	0.6819	0.6795
10.00	0.6764	0.6721	0.6743