

Monday, December 11, 2023, Time 09:04

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023-W3-3

Thickness: 28.24mm

Rear Left : 28.24 mm

Rear Right : 27.71 mm

Front Left: 28.78 mm

Front Right: 28.24 mm

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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: 80 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.59	24.66	-14570	5837	0.9256
-ne-	15.03	24.97	-11561	6468	0.6655
-te-	15.01	25.02	-9832	7792	0.6460
-te-	14.98	25.00	-9201	8417	0.6454
-te-	14.95	24.96	-8904	8636	0.6432
-te-	14.96	24.94	-8638	8820	0.6414
-te-	14.98	24.97	-8437	8945	0.6381
-te-	14.99	24.99	-8374	8992	0.6369
-te-	15.00	25.00	-8372	8991	0.6367
-pe-	15.01	25.01	-8383	8990	0.6370
-pe-	15.01	25.01	-8400	8988	0.6375
-pe-	15.01	25.02	-8412	8986	0.6376
-pe-	15.01	25.02	-8415	8977	0.6374
-pe-	15.01	25.02	-8413	8970	0.6369
-pe-	15.01	25.02	-8408	8962	0.6363
-pe-	15.00	25.02	-8407	8957	0.6362
-pe-	15.00	25.02	-8405	8953	0.6361
-pe-	15.00	25.01	-8402	8953	0.6360
-pe-	15.01	25.02	-8399	8956	0.6359

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Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.00 °C

CalibFactor Upper: 0.026016

Results Upper: 0.6168 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.6552 W/mK

Percent Difference: 6.05%

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: 55 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.17	20.07	-17854	-2475	0.7613
-te-	9.99	19.99	-12609	4554	0.6351
-te-	10.00	19.99	-10400	6662	0.6311
-te-	10.00	20.00	-9298	7721	0.6287
-te-	10.00	20.00	-8754	8243	0.6275
-te-	10.00	20.01	-8482	8508	0.6270
-te-	10.00	20.01	-8346	8627	0.6264
-te-	10.01	20.01	-8269	8686	0.6257
-te-	10.01	20.01	-8227	8710	0.6250
-pe-	10.00	20.01	-8213	8716	0.6245
-pe-	10.00	20.01	-8195	8723	0.6240
-pe-	10.00	20.01	-8184	8719	0.6234
-pe-	10.00	20.00	-8186	8715	0.6237

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Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026313
Results Upper: 0.6082 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.6392 W/mK
Percent Difference: 4.96%

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 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.27	15.08	-17656	-2519	0.7697
-ne-	4.91	14.91	-12536	4252	0.6269
-te-	4.99	15.00	-10155	6551	0.6217
-te-	4.99	15.00	-9112	7571	0.6200
-te-	5.00	15.00	-8584	8060	0.6184
-te-	5.00	15.00	-8320	8337	0.6184
-te-	5.00	15.01	-8198	8444	0.6179
-te-	5.00	15.01	-8133	8507	0.6178
-te-	5.00	15.01	-8092	8534	0.6173
-pe-	5.00	15.01	-8084	8541	0.6171
-pe-	5.00	15.01	-8061	8557	0.6166
-pe-	4.99	15.01	-8048	8560	0.6161
-pe-	5.00	15.00	-8042	8559	0.6160
-pe-	5.00	15.01	-8045	8550	0.6158

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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: 0.6041 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.6278 W/mK
Percent Difference: 3.85%

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	0.6168	0.6552	0.6360
15.00	0.6082	0.6392	0.6237
10.00	0.6041	0.6278	0.6160