

Thursday, December 14, 2023, Time 16:49

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023_12_14_M3_1_10_11

Thickness: 27.45mm

Rear Left : 27.71 mm

Rear Right : 27.76 mm

Front Left: 27.13 mm

Front Right: 27.20 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: 72 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.57	24.22	-11233	6026	0.7108
-ne-	14.99	24.98	-8125	4042	0.4347
-te-	15.00	25.01	-7016	4652	0.4156
-te-	15.01	25.01	-6491	5010	0.4098
-te-	15.01	25.02	-6201	5199	0.4061
-te-	15.01	25.02	-6054	5308	0.4047
-te-	15.01	25.02	-5960	5359	0.4032
-te-	15.01	25.02	-5912	5394	0.4027
-pe-	15.00	25.01	-5895	5403	0.4023
-pe-	15.00	25.01	-5876	5411	0.4019
-pe-	15.00	25.01	-5866	5422	0.4021
-pe-	15.00	25.02	-5855	5425	0.4017
-pe-	15.01	25.02	-5851	5423	0.4015
-pe-	15.00	25.01	-5850	5421	0.4014
-pe-	15.00	25.01	-5849	5422	0.4016
-pe-	15.00	25.01	-5848	5424	0.4016
-pe-	15.01	25.02	-5852	5421	0.4016

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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: 0.4175 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3857 W/mK

Percent Difference: 7.90%

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: 97 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.16	20.06	-14369	-2387	0.6100
-te-	9.99	19.99	-9686	2628	0.4432
-te-	9.99	19.99	-7981	3778	0.4230
-te-	10.00	19.99	-7007	4454	0.4119
-te-	10.00	20.00	-6459	4832	0.4055
-te-	10.00	20.00	-6164	5052	0.4026
-te-	10.00	20.00	-5998	5169	0.4008
-te-	10.00	20.00	-5904	5235	0.3998
-te-	10.01	20.01	-5854	5273	0.3993
-te-	10.00	20.01	-5821	5296	0.3989
-pe-	10.00	20.00	-5809	5303	0.3987
-pe-	10.00	20.00	-5799	5310	0.3986
-pe-	10.00	20.00	-5794	5312	0.3986
-pe-	10.00	20.00	-5792	5319	0.3987
-pe-	10.00	20.00	-5787	5325	0.3988
-pe-	10.00	20.00	-5784	5326	0.3987
-pe-	10.00	20.00	-5782	5329	0.3987
-pe-	10.00	20.01	-5781	5332	0.3988
-pe-	10.00	20.01	-5781	5327	0.3985
-pe-	10.01	20.01	-5780	5327	0.3985
-pe-	10.00	20.01	-5779	5328	0.3985
-pe-	10.00	20.01	-5777	5327	0.3984
-pe-	10.00	20.01	-5778	5324	0.3983

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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: 0.4172 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3796 W/mK
Percent Difference: 9.45%

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: 89 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.22	15.07	-13917	-2376	0.6022
-te-	4.99	14.99	-9493	2559	0.4378
-te-	5.00	15.00	-7820	3680	0.4167
-te-	5.00	15.00	-6862	4344	0.4054
-te-	5.00	15.00	-6332	4714	0.3993
-te-	5.00	15.01	-6032	4922	0.3958
-te-	5.00	15.01	-5863	5042	0.3939
-te-	5.00	15.01	-5770	5101	0.3926
-te-	5.00	15.01	-5721	5133	0.3919
-pe-	5.00	15.00	-5694	5152	0.3916
-pe-	4.99	15.00	-5671	5167	0.3913
-pe-	5.00	15.00	-5653	5176	0.3909
-pe-	5.00	15.01	-5645	5180	0.3908
-pe-	5.00	15.00	-5641	5181	0.3907
-pe-	5.00	15.01	-5640	5182	0.3907
-pe-	5.00	15.01	-5639	5182	0.3907
-pe-	5.00	15.01	-5635	5183	0.3906
-pe-	5.00	15.01	-5635	5180	0.3904
-pe-	5.00	15.00	-5633	5180	0.3904
-pe-	5.00	15.01	-5633	5180	0.3904
-pe-	5.00	15.01	-5635	5177	0.3904

Setpoint No. 3
Setpoint Upper: 5.00 °C
Setpoint Lower: 15.00 °C
Temperature Upper: 5.00 °C
CalibFactor Upper: 0.026610
Results Upper: 0.4113 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3695 W/mK
Percent Difference: 10.71%

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	0.4175	0.3857	0.4016
15.01	0.4172	0.3796	0.3984
10.00	0.4113	0.3695	0.3904