

Monday, December 12, 2022, Time 17:31

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: M3-2-20221212

Thickness: 28.61mm

Rear Left : 28.78 mm

Rear Right : 28.52 mm

Front Left: 28.68 mm

Front Right: 28.45 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: 63 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.58	24.32	-7036	12025	0.8089
-ne-	14.99	24.99	-5503	8370	0.5154
-te-	14.99	25.00	-5842	7495	0.4952
-te-	15.00	25.01	-6051	7134	0.4894
-te-	15.00	25.01	-6163	6949	0.4867
-te-	15.01	25.02	-6226	6838	0.4849
-te-	15.01	25.02	-6259	6777	0.4839
-te-	15.00	25.01	-6277	6743	0.4833
-pe-	15.01	25.02	-6280	6735	0.4830
-pe-	15.01	25.02	-6292	6719	0.4829
-pe-	15.00	25.01	-6304	6701	0.4828
-pe-	15.00	25.01	-6306	6703	0.4830
-pe-	15.00	25.01	-6307	6703	0.4830
-pe-	15.00	25.01	-6309	6707	0.4833
-pe-	15.00	25.01	-6309	6712	0.4834

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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: 0.4692 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4973 W/mK

Percent Difference: 5.81%

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]
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-ne-	10.10	20.06	-13304	-5632	0.7127
-te-	10.00	20.00	-8671	1827	0.3941
-te-	10.00	20.00	-7489	3996	0.4306
-te-	10.00	20.00	-6858	5143	0.4493
-te-	10.00	20.00	-6522	5773	0.4599
-te-	10.00	20.00	-6341	6105	0.4653
-te-	10.01	20.01	-6241	6277	0.4680
-te-	10.00	20.01	-6185	6374	0.4695
-te-	10.00	20.00	-6154	6429	0.4703
-te-	10.00	20.00	-6139	6448	0.4706
-pe-	10.00	20.00	-6133	6462	0.4708
-pe-	10.00	20.00	-6125	6476	0.4710
-pe-	10.00	20.00	-6116	6488	0.4712
-pe-	10.01	20.01	-6118	6487	0.4712

Monday, December 12, 2022, Time 19:34

Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026312
Results Upper: 0.4606 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.4816 W/mK
Percent Difference: 4.46%

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-	5.18	15.06	-13096	-5633	0.7164
-te-	4.99	15.00	-8508	1716	0.3875
-te-	5.00	15.00	-7348	3872	0.4235
-te-	5.00	15.00	-6733	5017	0.4426
-te-	5.00	15.00	-6399	5632	0.4528
-te-	5.00	15.00	-6224	5950	0.4581
-te-	5.00	15.01	-6122	6137	0.4610
-te-	5.00	15.01	-6071	6236	0.4628
-te-	5.00	15.01	-6035	6296	0.4636
-te-	5.00	15.00	-6011	6329	0.4640
-pe-	5.00	15.00	-6004	6342	0.4642
-pe-	5.00	15.00	-6000	6349	0.4643
-pe-	5.00	15.00	-5995	6359	0.4645
-pe-	5.00	15.00	-5995	6366	0.4648
-pe-	5.00	15.00	-5993	6369	0.4648
-pe-	5.00	15.00	-5993	6374	0.4651
-pe-	5.00	15.01	-5992	6380	0.4651
-pe-	5.00	15.01	-5990	6380	0.4651
-pe-	5.00	15.01	-5987	6381	0.4650
-pe-	5.00	15.00	-5984	6382	0.4649
-pe-	5.00	15.01	-5984	6377	0.4647

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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: 0.4553 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.4743 W/mK

Percent Difference: 4.09%

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	0.4692	0.4973	0.4832
15.00	0.4606	0.4816	0.4711
10.00	0.4553	0.4743	0.4648