

Wednesday, November 30, 2022, Time 12:06

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: wall 3 sample 1

Thickness: 28.35mm

Rear Left : 28.42 mm

Rear Right : 28.63 mm

Front Left: 28.09 mm

Front Right: 28.27 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: 55 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.10	24.54	-10720	4836	0.6779
-ne-	14.95	24.94	-8480	4491	0.4781
-te-	15.00	25.01	-7509	5112	0.4646
-te-	15.00	25.01	-7102	5442	0.4616
-te-	15.00	25.01	-6863	5645	0.4603
-te-	15.01	25.01	-6731	5756	0.4595
-te-	15.01	25.02	-6659	5822	0.4592
-te-	15.01	25.01	-6619	5845	0.4587
-pe-	15.00	25.01	-6603	5861	0.4586
-pe-	15.00	25.01	-6585	5874	0.4583
-pe-	15.00	25.01	-6576	5879	0.4582
-pe-	15.00	25.01	-6573	5883	0.4582
-pe-	15.00	25.01	-6574	5878	0.4582

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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: 0.4845 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.4319 W/mK

Percent Difference: 11.47%

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: 93 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.15	20.06	-14819	-2802	0.6614
-te-	9.99	19.99	-10826	2034	0.4785

	10.00	19.99	-9134	3427	0.4671
-te-	10.00	20.00	-8058	4320	0.4597
-te-	10.00	20.00	-7402	4874	0.4555
-te-	10.00	20.00	-7005	5207	0.4530
-te-	10.00	20.01	-6766	5409	0.4514
-te-	10.01	20.01	-6622	5524	0.4503
-te-	10.01	20.01	-6538	5596	0.4498
-te-	10.01	20.01	-6489	5634	0.4494
-pe-	10.00	20.00	-6466	5650	0.4490
-pe-	10.00	20.00	-6438	5674	0.4489
-pe-	10.00	20.00	-6418	5684	0.4485
-pe-	10.00	20.00	-6410	5689	0.4484
-pe-	10.00	20.00	-6408	5689	0.4484
-pe-	10.00	20.00	-6412	5690	0.4487
-pe-	10.00	20.00	-6414	5695	0.4489
-pe-	10.00	20.00	-6414	5698	0.4491
-pe-	10.00	20.00	-6412	5702	0.4491
-pe-	10.00	20.00	-6406	5709	0.4491
-pe-	10.00	20.01	-6404	5711	0.4490
-pe-	10.00	20.01	-6403	5708	0.4488

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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: 0.4777 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.4203 W/mK
Percent Difference: 12.78%

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 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.22	15.07	-14348	-2773	0.6532
-te-	4.99	14.99	-10608	1962	0.4722
-te-	4.99	15.00	-8962	3309	0.4598
-te-	4.99	15.00	-7917	4180	0.4524
-te-	5.00	15.00	-7265	4712	0.4477
-te-	5.00	15.00	-6867	5066	0.4454
-te-	5.00	15.01	-6627	5256	0.4436
-te-	5.00	15.00	-6484	5375	0.4425
-te-	5.00	15.01	-6399	5444	0.4419
-te-	5.00	15.01	-6341	5493	0.4415
-te-	5.00	15.01	-6309	5517	0.4411
-pe-	5.00	15.00	-6301	5523	0.4410
-pe-	4.99	15.00	-6292	5534	0.4411
-pe-	5.00	15.00	-6286	5544	0.4413
-pe-	5.00	15.00	-6282	5554	0.4415
-pe-	5.00	15.00	-6277	5558	0.4415
-pe-	5.00	15.01	-6276	5559	0.4414
-pe-	5.00	15.00	-6273	5559	0.4413
-pe-	5.00	15.00	-6272	5562	0.4414
-pe-	5.00	15.01	-6271	5560	0.4413
-pe-	5.00	15.01	-6271	5560	0.4413
-pe-	5.00	15.01	-6268	5561	0.4412
-pe-	5.00	15.01	-6270	5555	0.4411

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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: 0.4728 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.4096 W/mK
Percent Difference: 14.32%

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	0.4845	0.4319	0.4582
15.00	0.4777	0.4203	0.4490
10.00	0.4728	0.4096	0.4412