

Tuesday, January 03, 2023, Time 12:22

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: Wall 3 sample 3

Thickness: 28.86mm

Rear Left : 28.75 mm

Rear Right : 29.16 mm

Front Left: 28.57 mm

Front Right: 28.96 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: 127 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.12	24.60	-11716	2492	0.6277
-ne-	15.01	25.00	-8581	3160	0.4411
-te-	14.99	24.99	-7540	4444	0.4491
-te-	14.95	24.93	-6997	5237	0.4594
-te-	14.97	24.95	-6557	5903	0.4678
-te-	14.99	24.99	-6301	6302	0.4724
-te-	15.00	25.00	-6184	6497	0.4752
-te-	15.00	25.01	-6124	6601	0.4767
-te-	15.00	25.01	-6087	6664	0.4776
-te-	15.00	25.01	-6070	6696	0.4781
-pe-	15.00	25.01	-6062	6712	0.4784
-pe-	15.00	25.01	-6056	6726	0.4787
-pe-	15.00	25.01	-6052	6736	0.4790
-pe-	15.00	25.01	-6051	6742	0.4791
-pe-	15.01	25.01	-6049	6745	0.4792
-pe-	15.01	25.01	-6048	6746	0.4791
-pe-	15.01	25.01	-6047	6749	0.4791
-pe-	15.01	25.02	-6047	6746	0.4790
-pe-	15.00	25.01	-6046	6745	0.4790
-pe-	15.01	25.02	-6044	6745	0.4788
-pe-	15.01	25.02	-6042	6744	0.4787
-pe-	15.01	25.02	-6039	6743	0.4785
-pe-	15.01	25.02	-6035	6742	0.4783
-pe-	15.01	25.02	-6033	6741	0.4782
-pe-	15.01	25.02	-6030	6736	0.4779
-pe-	15.01	25.02	-6028	6733	0.4778
-pe-	15.01	25.02	-6025	6729	0.4775
-pe-	15.01	25.02	-6023	6727	0.4773
-pe-	15.01	25.02	-6022	6722	0.4772
-pe-	15.01	25.02	-6023	6718	0.4770

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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: 0.4518 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.5026 W/mK

Percent Difference: 10.66%

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: 84 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.13	20.06	-12725	-4457	0.6544
-te-	9.99	19.99	-9169	1480	0.4035
-te-	10.00	19.99	-7888	3436	0.4287
-te-	10.00	20.00	-7102	4662	0.4445
-te-	10.00	20.00	-6623	5409	0.4542
-te-	10.00	20.00	-6335	5856	0.4600
-te-	10.00	20.01	-6158	6138	0.4638
-te-	10.00	20.00	-6049	6299	0.4657
-te-	10.01	20.01	-5984	6396	0.4669
-te-	10.01	20.00	-5942	6456	0.4676
-te-	10.01	20.01	-5917	6493	0.4678
-pe-	10.00	20.00	-5905	6507	0.4680
-pe-	10.00	20.00	-5895	6517	0.4680
-pe-	10.00	20.00	-5893	6523	0.4682
-pe-	10.00	20.00	-5893	6530	0.4685
-pe-	10.00	20.00	-5894	6544	0.4691
-pe-	10.00	20.00	-5889	6549	0.4691
-pe-	10.00	20.00	-5886	6557	0.4692
-pe-	10.00	20.01	-5884	6560	0.4691
-pe-	10.01	20.01	-5885	6556	0.4691

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Setpoint No. 2

Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.01 °C
CalibFactor Upper: 0.026312
Results Upper: 0.4468 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.4914 W/mK
Percent Difference: 9.50%

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: 76 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.19	15.07	-12294	-4464	0.6473
-te-	4.99	14.99	-8945	1385	0.3953
-te-	5.00	15.00	-7696	3325	0.4201
-te-	5.00	15.00	-6928	4527	0.4357
-te-	5.00	15.00	-6460	5260	0.4452
-te-	5.00	15.01	-6176	5702	0.4509
-te-	5.00	15.01	-6002	5968	0.4542
-te-	5.00	15.01	-5896	6127	0.4561
-te-	5.00	15.01	-5832	6225	0.4573
-te-	5.00	15.01	-5791	6284	0.4580
-te-	5.00	15.01	-5765	6312	0.4581
-pe-	5.00	15.00	-5754	6327	0.4582

-pe-	5.00	15.00	-5741	6349	0.4584
-pe-	5.00	15.00	-5731	6356	0.4583
-pe-	5.00	15.00	-5726	6359	0.4583
-pe-	5.00	15.01	-5724	6360	0.4582
-pe-	5.00	15.00	-5721	6365	0.4583
-pe-	5.00	15.01	-5721	6361	0.4581

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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:
0.4393
W/mK
Temperature Lower:
15.01
°C
CalibFactor Lower:
0.026003
Results Lower:
0.4772
W/mK
Percent Difference:
8.28%

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	0.4518	0.5026	0.4772
15.01	0.4468	0.4914	0.4691
10.00	0.4393	0.4772	0.4582