

Friday, December 09, 2022, Time 11:45

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2F-20221209

Thickness: 26.95mm

Rear Left : 26.95 mm

Rear Right : 27.25 mm

Front Left: 26.64 mm

Front Right: 26.95 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-	15.63	24.27	-2522	11071	0.5501
-ne-	15.01	25.01	-2587	6625	0.3221
-te-	15.01	25.02	-3056	5666	0.3048
-te-	15.01	25.02	-3412	5187	0.3006
-te-	15.01	25.02	-3618	4928	0.2987
-te-	15.01	25.01	-3737	4769	0.2974
-te-	15.00	25.01	-3806	4686	0.2969
-te-	15.00	25.01	-3842	4628	0.2962
-te-	15.00	25.01	-3871	4599	0.2961
-pe-	15.01	25.01	-3880	4589	0.2961
-pe-	15.01	25.02	-3889	4578	0.2961
-pe-	15.01	25.02	-3897	4569	0.2960
-pe-	15.01	25.02	-3900	4566	0.2960
-pe-	15.01	25.01	-3901	4564	0.2960
-pe-	15.01	25.01	-3902	4561	0.2959
-pe-	15.00	25.01	-3904	4560	0.2959
-pe-	15.00	25.01	-3901	4561	0.2959

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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: 0.2734 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3185 W/mK

Percent Difference: 15.25%

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 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.21	20.11	-9594	-4004	0.4850
-te-	9.98	19.96	-6472	1218	0.2726
-te-	10.00	20.00	-5406	2533	0.2803
-te-	10.00	20.00	-4760	3334	0.2854
-te-	10.00	20.00	-4380	3811	0.2886
-te-	10.00	20.00	-4157	4094	0.2906
-te-	10.00	20.01	-4031	4259	0.2919
-te-	10.00	20.00	-3952	4356	0.2925
-te-	10.00	20.00	-3906	4415	0.2929
-te-	10.00	20.00	-3880	4447	0.2932
-pe-	10.00	20.00	-3869	4459	0.2932
-pe-	10.00	20.00	-3858	4473	0.2933
-pe-	10.00	20.00	-3848	4483	0.2933
-pe-	10.00	20.00	-3845	4489	0.2934
-pe-	10.00	20.00	-3845	4490	0.2934
-pe-	10.00	20.00	-3844	4490	0.2934
-pe-	10.00	20.00	-3842	4492	0.2934
-pe-	10.00	20.01	-3844	4490	0.2933

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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: 0.2725 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3142 W/mK
Percent Difference: 14.23%

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: 72 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.31	15.16	-9309	-3883	0.4768
-ne-	4.89	14.85	-6454	988	0.2671
-te-	4.99	14.99	-5265	2549	0.2781
-te-	5.00	15.00	-4650	3285	0.2817
-te-	5.00	15.00	-4281	3748	0.2847
-te-	5.00	15.00	-4068	4015	0.2864
-te-	5.00	15.00	-3942	4177	0.2876
-te-	5.00	15.01	-3867	4272	0.2882
-te-	5.00	15.01	-3824	4325	0.2885
-te-	5.00	15.00	-3801	4352	0.2886
-pe-	5.00	15.00	-3788	4368	0.2888
-pe-	5.00	15.00	-3779	4381	0.2889
-pe-	5.00	15.00	-3771	4390	0.2889
-pe-	5.00	15.00	-3768	4396	0.2890
-pe-	5.00	15.00	-3766	4396	0.2889
-pe-	5.00	15.00	-3763	4400	0.2890
-pe-	5.00	15.01	-3765	4398	0.2890

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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: 0.2698 W/mK
Temperature Lower: 15.01 °C

CalibFactor Lower: 0.026002
Results Lower: 0.3081 W/mK
Percent Difference: 13.23%

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	0.2734	0.3185	0.2959
15.00	0.2725	0.3142	0.2934
10.00	0.2698	0.3081	0.2890