

Wednesday, November 17, 2021, Time 13:15

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.50.50.0.L8#1

Thickness: 29.74mm

Rear Left : 29.67 mm

Rear Right : 29.57 mm

Front Left: 29.90 mm

Front Right: 29.82 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: 114 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.00	24.61	-8403	4410	0.5739
-ne-	14.97	25.00	-5347	2530	0.3034
-te-	14.99	25.00	-4585	2835	0.2865
-te-	15.00	25.01	-4302	3051	0.2838
-te-	15.00	25.01	-4105	3192	0.2816
-te-	15.00	25.01	-3969	3292	0.2803
-te-	15.01	25.01	-3878	3360	0.2793
-te-	15.00	25.01	-3819	3400	0.2786
-te-	15.00	25.01	-3780	3430	0.2782
-pe-	15.00	25.01	-3761	3443	0.2780
-pe-	15.00	25.01	-3737	3462	0.2778
-pe-	15.00	25.01	-3720	3475	0.2776
-pe-	15.00	25.01	-3712	3480	0.2775
-pe-	15.00	25.01	-3707	3484	0.2775
-pe-	15.00	25.01	-3702	3488	0.2775
-pe-	15.00	25.01	-3701	3488	0.2774
-pe-	15.01	25.02	-3699	3491	0.2774
-pe-	15.00	25.01	-3697	3494	0.2775
-pe-	15.01	25.02	-3696	3491	0.2773
-pe-	15.01	25.01	-3695	3492	0.2774
-pe-	15.01	25.02	-3695	3493	0.2774
-pe-	15.00	25.01	-3694	3492	0.2773
-pe-	15.01	25.02	-3694	3495	0.2774
-pe-	15.01	25.02	-3693	3492	0.2773
-pe-	15.00	25.01	-3692	3492	0.2772
-pe-	15.00	25.01	-3689	3497	0.2773
-pe-	15.01	25.02	-3691	3494	0.2772

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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: 0.2853 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.2692 W/mK

Percent Difference: 5.78%

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: 80 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.32	20.19	-10848	-3082	0.5507
-ne-	9.87	19.84	-6973	918	0.3094
-te-	9.99	19.98	-5819	1864	0.3000
-te-	10.00	20.00	-5155	2319	0.2912
-te-	10.00	20.00	-4680	2662	0.2859
-te-	10.00	20.00	-4345	2906	0.2822
-te-	10.00	20.00	-4115	3076	0.2798
-te-	10.00	20.00	-3961	3187	0.2780
-te-	10.00	20.00	-3859	3266	0.2770
-te-	10.00	20.00	-3783	3319	0.2762
-te-	10.00	20.01	-3732	3358	0.2756
-te-	10.01	20.01	-3700	3380	0.2752
-pe-	10.00	20.00	-3687	3390	0.2751
-pe-	10.00	20.00	-3669	3403	0.2749
-pe-	10.00	20.00	-3657	3412	0.2748
-pe-	10.00	20.00	-3646	3422	0.2748
-pe-	10.00	20.01	-3640	3425	0.2746
-pe-	10.00	20.00	-3638	3426	0.2746
-pe-	10.01	20.01	-3641	3423	0.2746

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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: 0.2847 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.2644 W/mK
Percent Difference: 7.39%

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 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.45	15.32	-10509	-2930	0.5354
-ne-	4.85	14.83	-6900	844	0.3064
-te-	4.99	14.98	-5728	1825	0.2975
-te-	4.99	15.00	-5082	2261	0.2884
-te-	5.00	15.00	-4606	2603	0.2828
-te-	5.00	15.00	-4278	2845	0.2791
-te-	5.00	15.00	-4054	3006	0.2765
-te-	5.00	15.00	-3900	3119	0.2748
-te-	5.00	15.00	-3791	3198	0.2735
-te-	5.00	15.01	-3721	3252	0.2728
-te-	5.00	15.00	-3673	3285	0.2722
-pe-	5.00	15.00	-3652	3299	0.2718
-pe-	4.99	15.00	-3623	3321	0.2716
-pe-	4.99	15.00	-3606	3331	0.2713
-pe-	5.00	15.00	-3597	3340	0.2713
-pe-	5.00	15.00	-3588	3345	0.2711

-pe-	5.00	15.00	-3584	3348	0.2711
-pe-	5.00	15.00	-3579	3353	0.2711
-pe-	5.00	15.00	-3575	3355	0.2711
-pe-	5.00	15.01	-3575	3356	0.2710
-pe-	5.00	15.00	-3574	3356	0.2710
-pe-	5.00	15.00	-3574	3356	0.2711

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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: 0.2827 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.2594 W/mK
Percent Difference: 8.60%

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	0.2853	0.2692	0.2772
15.00	0.2847	0.2644	0.2746
10.00	0.2827	0.2594	0.2710