

Wednesday, December 08, 2021, Time 10:50

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 50.50.0.R #3

Thickness: 29.17mm

Rear Left : 29.21 mm

Rear Right : 29.26 mm

Front Left: 29.08 mm

Front Right: 29.13 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: 67 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.43	23.94	-6710	8482	0.6758
-ne-	15.02	24.99	-5174	4981	0.3861
-te-	15.01	25.01	-5020	4890	0.3752
-te-	15.01	25.02	-4981	4917	0.3746
-pe-	15.00	25.02	-4973	4913	0.3740
-pe-	15.00	25.01	-4961	4920	0.3740
-pe-	15.00	25.01	-4953	4929	0.3741
-pe-	15.00	25.01	-4950	4931	0.3741
-pe-	15.00	25.01	-4945	4938	0.3741
-pe-	15.00	25.01	-4940	4944	0.3742
-pe-	15.00	25.01	-4937	4948	0.3742
-pe-	15.01	25.01	-4937	4948	0.3742
-pe-	15.01	25.02	-4935	4947	0.3741
-pe-	15.01	25.02	-4934	4949	0.3740
-pe-	15.01	25.02	-4933	4949	0.3740
-pe-	15.01	25.02	-4933	4948	0.3740

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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:	0.3740	W/mK
Temperature Lower:	25.02	°C
CalibFactor Lower:	0.025934	
Results Lower:	0.3740	W/mK
Percent Difference:	0.00%	

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	Tlower	Qupper	Qlower	Lambda
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	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.10	20.05	-13481	-2611	0.6193
-te-	9.99	20.00	-8777	2198	0.4198
-te-	10.00	20.00	-7447	3082	0.4026
-te-	10.00	20.00	-6558	3678	0.3910
-te-	10.00	20.00	-5976	4073	0.3837
-te-	10.00	20.00	-5595	4332	0.3787
-te-	10.00	20.00	-5337	4507	0.3755
-te-	10.00	20.01	-5170	4622	0.3734
-te-	10.01	20.01	-5054	4702	0.3720
-te-	10.01	20.01	-4983	4741	0.3707
-te-	10.01	20.01	-4923	4782	0.3701
-te-	10.00	20.01	-4890	4798	0.3693
-pe-	10.00	20.00	-4874	4811	0.3692
-pe-	10.00	20.00	-4856	4820	0.3688
-pe-	10.00	20.00	-4840	4827	0.3685
-pe-	10.00	20.00	-4833	4833	0.3685
-pe-	10.00	20.00	-4827	4838	0.3684
-pe-	10.00	20.01	-4824	4839	0.3683
-pe-	10.00	20.01	-4824	4838	0.3683

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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: 0.3703 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3665 W/mK
Percent Difference: 1.03%

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: 106 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.17	15.05	-13253	-2576	0.6193
-te-	4.99	15.00	-8611	2142	0.4152
-te-	4.99	15.00	-7308	2993	0.3969
-te-	5.00	15.00	-6432	3583	0.3853
-te-	5.00	15.00	-5855	3972	0.3777
-te-	5.00	15.00	-5487	4219	0.3728
-te-	5.00	15.00	-5235	4387	0.3694
-te-	5.00	15.00	-5069	4500	0.3673
-te-	5.00	15.01	-4957	4577	0.3658
-te-	5.00	15.01	-4891	4620	0.3648
-te-	5.00	15.01	-4844	4647	0.3641
-pe-	4.99	15.00	-4826	4660	0.3639
-pe-	4.99	15.00	-4799	4681	0.3636
-pe-	4.99	15.00	-4780	4694	0.3634
-pe-	5.00	15.00	-4765	4703	0.3631
-pe-	5.00	15.01	-4757	4707	0.3629
-pe-	5.00	15.01	-4754	4707	0.3628
-pe-	5.00	15.01	-4751	4708	0.3627
-pe-	5.00	15.01	-4751	4706	0.3627
-pe-	5.00	15.01	-4749	4706	0.3626
-pe-	5.00	15.00	-4749	4708	0.3627
-pe-	5.00	15.00	-4748	4708	0.3627
-pe-	5.00	15.00	-4748	4709	0.3627
-pe-	5.00	15.00	-4748	4709	0.3627
-pe-	5.00	15.00	-4749	4710	0.3628

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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: 0.3684 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3571 W/mK
Percent Difference: 3.13%

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	0.3740	0.3740	0.3740
15.00	0.3703	0.3665	0.3684
10.00	0.3684	0.3571	0.3627