

Tuesday, December 07, 2021, Time 09:35

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 50.50.0.R #2

Thickness: 29.67mm

Rear Left : 29.74 mm

Rear Right : 29.74 mm

Front Left: 29.62 mm

Front Right: 29.59 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: 46 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.47	23.97	-7277	8409	0.7113
-ne-	15.02	24.98	-5557	4885	0.4038
-te-	15.00	25.01	-5303	4855	0.3911
-te-	15.00	25.01	-5207	4915	0.3898
-te-	15.01	25.02	-5150	4949	0.3888
-te-	15.01	25.02	-5118	4966	0.3883
-pe-	15.00	25.01	-5107	4973	0.3881
-pe-	15.00	25.01	-5093	4982	0.3878
-pe-	15.00	25.01	-5081	4987	0.3876
-pe-	15.00	25.01	-5075	4991	0.3876
-pe-	15.00	25.01	-5077	4989	0.3876

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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: 0.3916 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3836 W/mK

Percent Difference: 2.07%

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 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.10	20.04	-13584	-2711	0.6380
-te-	9.99	20.00	-8973	2113	0.4313
-te-	10.00	20.00	-7598	3066	0.4148
-te-	10.00	20.00	-6692	3692	0.4035

-te-	10.00	20.00	-6108	4107	0.3966
-te-	10.00	20.00	-5719	4377	0.3919
-te-	10.00	20.00	-5470	4548	0.3887
-te-	10.00	20.01	-5296	4669	0.3866
-te-	10.00	20.01	-5187	4753	0.3855
-te-	10.00	20.00	-5107	4802	0.3843
-te-	10.01	20.01	-5061	4834	0.3838
-pe-	10.00	20.00	-5043	4850	0.3837
-pe-	10.00	20.00	-5019	4863	0.3832
-pe-	10.00	20.00	-4998	4877	0.3830
-pe-	10.00	20.00	-4986	4889	0.3830
-pe-	10.00	20.00	-4978	4900	0.3831
-pe-	10.00	20.01	-4975	4898	0.3828
-pe-	10.00	20.01	-4968	4906	0.3829
-pe-	10.00	20.01	-4963	4905	0.3826
-pe-	10.00	20.01	-4961	4903	0.3824
-pe-	10.01	20.01	-4957	4903	0.3823
-pe-	10.00	20.01	-4955	4904	0.3823
-pe-	10.01	20.01	-4956	4899	0.3821

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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: 0.3868 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3776 W/mK
Percent Difference: 2.40%

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 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.18	15.04	-13330	-2681	0.6384
-te-	4.99	15.00	-8822	2085	0.4284
-te-	5.00	15.00	-7469	3013	0.4108
-te-	5.00	15.00	-6586	3617	0.3992
-te-	4.99	15.00	-6017	4013	0.3921
-te-	4.99	15.00	-5631	4282	0.3874
-te-	4.99	15.00	-5376	4466	0.3843
-te-	5.00	15.00	-5210	4576	0.3821
-te-	5.00	15.01	-5105	4652	0.3808
-te-	5.00	15.01	-5029	4707	0.3799
-te-	5.00	15.01	-4982	4736	0.3792
-pe-	5.00	15.00	-4962	4746	0.3787
-pe-	4.99	15.00	-4940	4761	0.3784
-pe-	4.99	15.00	-4923	4772	0.3783
-pe-	5.00	15.00	-4910	4784	0.3782
-pe-	5.00	15.00	-4900	4791	0.3781
-pe-	5.00	15.01	-4894	4792	0.3778
-pe-	5.00	15.00	-4892	4794	0.3779
-pe-	5.00	15.00	-4891	4795	0.3779
-pe-	5.00	15.00	-4892	4793	0.3779

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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: 0.3861 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3697 W/mK
Percent Difference: 4.33%

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	0.3916	0.3836	0.3876
15.01	0.3868	0.3776	0.3822
10.00	0.3861	0.3697	0.3779