

Thursday, December 08, 2022, Time 13:10

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 1F-20221208

Thickness: 30.19mm

Rear Left : 30.30 mm

Rear Right : 30.18 mm

Front Left: 30.18 mm

Front Right: 30.10 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: 38 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.88	24.40	-7434	8269	0.7213
-ne-	15.02	25.01	-5102	5241	0.4060
-te-	15.01	25.02	-4839	5016	0.3860
-te-	15.01	25.02	-4806	5018	0.3848
-pe-	15.00	25.02	-4795	5022	0.3844
-pe-	15.00	25.01	-4787	5024	0.3841
-pe-	15.00	25.02	-4785	5022	0.3840
-pe-	15.01	25.02	-4780	5022	0.3839
-pe-	15.01	25.02	-4782	5020	0.3839

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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: 0.3752 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3927 W/mK

Percent Difference: 4.56%

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: 67 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.32	20.18	-11479	-5569	0.6834
-ne-	9.91	19.85	-7851	694	0.3409
-te-	10.00	20.00	-6487	2669	0.3623
-te-	10.00	20.00	-5789	3536	0.3685
-te-	10.00	20.00	-5382	4084	0.3737
-te-	10.00	20.00	-5138	4402	0.3766

	9.99	19.99	-4992	4596	0.3783
-te-	9.99	19.99	-4901	4716	0.3794
-te-	9.99	19.99	-4842	4788	0.3799
-te-	9.99	19.99	-4809	4828	0.3802
-pe-	9.99	19.99	-4790	4848	0.3803
-pe-	9.99	19.99	-4771	4872	0.3804
-pe-	10.00	20.00	-4758	4890	0.3807
-pe-	10.00	20.00	-4755	4895	0.3807
-pe-	10.00	20.00	-4755	4898	0.3809
-pe-	10.00	20.00	-4758	4895	0.3808

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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: 0.3778 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3838 W/mK
Percent Difference: 1.59%

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: 67 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.31	15.16	-11211	-5556	0.6776
-ne-	4.91	14.86	-7705	651	0.3366
-te-	5.00	15.00	-6383	2553	0.3565
-te-	5.00	15.00	-5703	3409	0.3628
-te-	5.00	15.00	-5292	3962	0.3679
-te-	5.00	15.00	-5050	4288	0.3710
-te-	5.00	15.00	-4902	4494	0.3731
-te-	5.00	15.00	-4811	4611	0.3740
-te-	5.00	15.01	-4757	4689	0.3749
-te-	5.00	15.00	-4723	4728	0.3751
-pe-	5.00	15.00	-4708	4749	0.3753
-pe-	4.99	15.00	-4695	4768	0.3755
-pe-	5.00	15.00	-4680	4788	0.3757
-pe-	5.00	15.00	-4675	4796	0.3758
-pe-	5.00	15.00	-4669	4806	0.3760
-pe-	5.00	15.00	-4669	4804	0.3759

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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: 0.3751 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3768 W/mK
Percent Difference: 0.45%

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	0.3752	0.3927	0.3839
15.00	0.3778	0.3838	0.3808
10.00	0.3751	0.3768	0.3759