

Thursday, November 25, 2021, Time 14:19

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.50.50.0.B#2.tst

Thickness: 31.67mm

Rear Left : 31.52 mm

Rear Right : 31.42 mm

Front Left: 31.93 mm

Front Right: 31.83 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-	15.73	24.33	-6113	7223	0.6368
-ne-	15.01	25.02	-4194	4018	0.3376
-te-	15.01	25.02	-3926	3961	0.3241
-te-	15.01	25.02	-3871	3977	0.3225
-te-	15.01	25.02	-3838	4004	0.3223
-pe-	15.00	25.01	-3818	4018	0.3220
-pe-	15.00	25.01	-3798	4033	0.3218
-pe-	15.00	25.01	-3786	4042	0.3217
-pe-	15.00	25.01	-3780	4047	0.3216
-pe-	15.00	25.01	-3778	4046	0.3215
-pe-	15.01	25.01	-3778	4045	0.3215

Thursday, November 25, 2021, Time 15:05

Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.00 °C

CalibFactor Upper: 0.026016

Results Upper: 0.3111 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3320 W/mK

Percent Difference: 6.51%

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 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
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	10.34	20.18	-11239	-2999	0.6006
-ne-	9.88	19.83	-7471	1191	0.3623
-te-	10.00	19.99	-6264	2179	0.3509
-te-	10.00	20.00	-5558	2659	0.3409
-te-	10.00	20.00	-5038	3039	0.3349
-te-	10.00	20.00	-4672	3308	0.3306
-te-	10.00	20.00	-4413	3502	0.3279
-te-	10.00	20.00	-4232	3634	0.3257
-te-	10.00	20.00	-4102	3728	0.3242
-te-	10.00	20.00	-4008	3794	0.3230
-te-	10.00	20.00	-3944	3842	0.3223
-te-	9.99	20.00	-3896	3874	0.3217
-pe-	9.99	19.99	-3872	3890	0.3213
-pe-	9.99	19.99	-3844	3910	0.3209
-pe-	9.99	19.99	-3822	3924	0.3206
-pe-	10.00	20.00	-3809	3933	0.3204
-pe-	10.00	20.00	-3803	3934	0.3202
-pe-	10.00	20.00	-3798	3940	0.3203
-pe-	10.00	20.00	-3793	3945	0.3203
-pe-	10.00	20.00	-3792	3946	0.3203
-pe-	10.00	20.00	-3789	3948	0.3202
-pe-	10.00	20.00	-3788	3948	0.3202
-pe-	10.00	20.00	-3788	3948	0.3202
-pe-	10.00	20.00	-3784	3952	0.3201
-pe-	10.00	20.00	-3785	3950	0.3201

Thursday, November 25, 2021, Time 16:52

Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026312
Results Upper: 0.3154 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3248 W/mK
Percent Difference: 2.94%

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	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.37	15.21	-10895	-2967	0.5901
-ne-	4.88	14.84	-7328	1140	0.3574
-te-	4.99	14.99	-6160	2088	0.3457
-te-	4.99	15.00	-5471	2560	0.3358
-te-	5.00	15.00	-4962	2935	0.3298
-te-	5.00	15.00	-4604	3203	0.3257
-te-	5.00	15.00	-4351	3390	0.3228
-te-	5.00	15.00	-4169	3526	0.3207
-te-	5.00	15.00	-4034	3625	0.3191
-te-	5.00	15.01	-3941	3693	0.3180
-te-	5.00	15.00	-3875	3741	0.3172
-te-	5.00	15.00	-3829	3778	0.3167
-pe-	5.00	15.00	-3805	3794	0.3164
-pe-	4.99	15.00	-3776	3816	0.3161
-pe-	4.99	15.00	-3754	3831	0.3158
-pe-	5.00	15.00	-3740	3840	0.3156
-pe-	5.00	15.00	-3730	3847	0.3154
-pe-	5.00	15.00	-3724	3852	0.3154

-pe-	5.00	15.00	-3719	3855	0.3153
-pe-	5.00	15.00	-3716	3856	0.3152
-pe-	5.00	15.00	-3713	3860	0.3152
-pe-	5.00	15.00	-3714	3859	0.3152

Thursday, November 25, 2021, Time 18:25

Setpoint No. 3
Setpoint Upper: 5.00 °C
Setpoint Lower: 15.00 °C
Temperature Upper: 5.00 °C
CalibFactor Upper: 0.026610
Results Upper: 0.3129 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3176 W/mK
Percent Difference: 1.50%

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	0.3111	0.3320	0.3215
15.00	0.3154	0.3248	0.3201
10.00	0.3129	0.3176	0.3152