

Tuesday, November 09, 2021, Time 09:47

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.48.48.4#3

Thickness: 29.43mm

Rear Left : 29.31 mm

Rear Right : 29.36 mm

Front Left: 29.51 mm

Front Right: 29.54 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: 89 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.88	24.56	-10381	4066	0.6357
-ne-	14.97	24.95	-7101	2408	0.3644
-te-	15.00	25.01	-6022	2937	0.3424
-te-	15.00	25.01	-5469	3265	0.3337
-te-	15.00	25.01	-5099	3493	0.3283
-te-	15.00	25.01	-4851	3652	0.3248
-te-	15.00	25.01	-4686	3753	0.3223
-te-	15.00	25.01	-4569	3828	0.3207
-te-	15.00	25.01	-4492	3879	0.3197
-te-	15.00	25.01	-4442	3907	0.3189
-pe-	15.00	25.01	-4418	3925	0.3186
-pe-	15.00	25.01	-4387	3946	0.3182
-pe-	15.00	25.01	-4367	3958	0.3179
-pe-	15.00	25.01	-4349	3969	0.3176
-pe-	15.00	25.01	-4339	3972	0.3174
-pe-	15.00	25.02	-4332	3975	0.3172
-pe-	15.00	25.01	-4326	3979	0.3172
-pe-	15.01	25.02	-4324	3979	0.3171
-pe-	15.01	25.02	-4321	3979	0.3170
-pe-	15.00	25.01	-4318	3980	0.3169
-pe-	15.01	25.02	-4319	3978	0.3169

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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: 0.3304 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3034 W/mK

Percent Difference: 8.52%

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: 110 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.23	20.11	-11836	-2784	0.5715
-te-	9.99	19.98	-7972	1571	0.3692
-te-	10.00	20.00	-6824	2234	0.3495
-te-	10.00	20.00	-6016	2744	0.3378
-te-	10.00	20.00	-5461	3098	0.3298
-te-	10.00	20.00	-5080	3341	0.3244
-te-	10.00	20.00	-4823	3508	0.3208
-te-	10.00	20.01	-4644	3623	0.3182
-te-	10.01	20.01	-4519	3702	0.3164
-te-	10.00	20.01	-4442	3754	0.3154
-te-	10.00	20.01	-4381	3793	0.3146
-te-	10.00	20.00	-4339	3821	0.3140
-pe-	10.00	20.00	-4323	3831	0.3137
-pe-	10.00	20.00	-4303	3848	0.3136
-pe-	10.00	20.00	-4285	3858	0.3133
-pe-	10.00	20.00	-4275	3864	0.3131
-pe-	10.00	20.00	-4267	3870	0.3131
-pe-	10.00	20.00	-4262	3876	0.3131
-pe-	10.00	20.00	-4258	3878	0.3130
-pe-	10.00	20.01	-4258	3877	0.3130
-pe-	10.01	20.01	-4257	3876	0.3129
-pe-	10.00	20.01	-4253	3879	0.3129
-pe-	10.01	20.01	-4252	3879	0.3128
-pe-	10.00	20.01	-4248	3879	0.3127
-pe-	10.00	20.01	-4244	3882	0.3126
-pe-	10.01	20.01	-4245	3878	0.3125

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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: 0.3287 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.2965 W/mK
Percent Difference: 10.31%

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-	5.34	15.18	-11439	-2703	0.5604
-ne-	4.91	14.87	-7951	1395	0.3662
-te-	4.99	15.00	-6688	2217	0.3465
-te-	4.99	15.00	-5904	2686	0.3338
-te-	4.99	15.00	-5365	3024	0.3256
-te-	5.00	15.00	-4990	3265	0.3202
-te-	5.00	15.00	-4733	3431	0.3165
-te-	5.00	15.00	-4560	3543	0.3140
-te-	5.00	15.01	-4441	3619	0.3122
-te-	5.00	15.00	-4362	3671	0.3111
-te-	5.00	15.01	-4303	3710	0.3103
-te-	5.00	15.01	-4265	3734	0.3097
-pe-	5.00	15.00	-4246	3746	0.3095
-pe-	4.99	15.00	-4225	3762	0.3092
-pe-	4.99	15.00	-4207	3773	0.3089

-pe-	5.00	15.00	-4199	3777	0.3087
-pe-	5.00	15.00	-4191	3781	0.3086
-pe-	5.00	15.00	-4187	3784	0.3086
-pe-	5.00	15.00	-4185	3786	0.3086
-pe-	5.00	15.00	-4181	3788	0.3085
-pe-	5.00	15.00	-4181	3789	0.3085
-pe-	5.00	15.01	-4182	3787	0.3085

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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: 0.3273 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.2897 W/mK
Percent Difference: 12.18%

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	0.3304	0.3034	0.3169
15.01	0.3287	0.2965	0.3126
10.00	0.3273	0.2897	0.3085