

Wednesday, November 17, 2021, Time 08:41

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.50.50.0#3

Thickness: 29.13mm

Rear Left : 28.98 mm

Rear Right : 29.08 mm

Front Left: 29.18 mm

Front Right: 29.29 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: 63 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.55	24.74	-9389	3903	0.6129
-ne-	14.96	25.07	-6392	2917	0.3485
-te-	14.99	24.99	-5388	3265	0.3275
-te-	15.00	25.01	-5042	3492	0.3228
-te-	15.01	25.01	-4805	3625	0.3188
-te-	15.00	25.01	-4662	3703	0.3163
-te-	15.00	25.01	-4566	3758	0.3147
-te-	15.00	25.01	-4504	3793	0.3137
-te-	15.00	25.01	-4469	3813	0.3131
-pe-	15.00	25.01	-4453	3822	0.3129
-pe-	15.00	25.01	-4434	3834	0.3126
-pe-	15.00	25.01	-4418	3843	0.3123
-pe-	15.00	25.01	-4410	3847	0.3122
-pe-	15.00	25.01	-4408	3848	0.3121
-pe-	15.00	25.01	-4409	3846	0.3121

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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:	0.3339	W/mK
Temperature Lower:	25.01	°C
CalibFactor Lower:	0.025934	
Results Lower:	0.2904	W/mK
Percent Difference:	13.93%	

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 [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
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	10.40	20.25	-12603	-2571	0.5884
-ne-	9.85	19.83	-8390	1385	0.3749
-te-	9.99	19.97	-6824	2398	0.3527
-te-	9.99	20.00	-5998	2832	0.3370
-te-	10.00	20.00	-5421	3151	0.3270
-te-	10.00	20.00	-5042	3363	0.3204
-te-	10.00	20.00	-4798	3503	0.3164
-te-	10.00	20.00	-4639	3590	0.3136
-te-	10.00	20.00	-4538	3649	0.3120
-te-	10.00	20.00	-4464	3690	0.3107
-te-	10.00	20.00	-4419	3716	0.3100
-pe-	10.00	20.00	-4403	3724	0.3096
-pe-	10.00	20.00	-4386	3733	0.3093
-pe-	10.00	20.00	-4368	3744	0.3090
-pe-	10.00	20.00	-4361	3747	0.3089
-pe-	10.00	20.00	-4352	3754	0.3088
-pe-	10.00	20.00	-4349	3756	0.3087
-pe-	10.00	20.01	-4349	3755	0.3087
-pe-	10.00	20.00	-4350	3756	0.3088

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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: 0.3333 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.2841 W/mK
Percent Difference: 15.94%

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: 84 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.45	15.30	-12269	-2510	0.5786
-ne-	4.85	14.83	-8276	1328	0.3722
-te-	4.99	14.98	-6744	2337	0.3503
-te-	4.99	15.00	-5918	2759	0.3337
-te-	5.00	15.00	-5350	3076	0.3237
-te-	5.00	15.00	-4975	3288	0.3172
-te-	5.00	15.00	-4735	3415	0.3127
-te-	5.00	15.00	-4564	3517	0.3100
-te-	5.00	15.01	-4471	3566	0.3082
-te-	5.00	15.01	-4394	3611	0.3070
-te-	5.00	15.01	-4359	3629	0.3063
-pe-	5.00	15.00	-4333	3644	0.3058
-pe-	4.99	15.00	-4309	3657	0.3053
-pe-	4.99	15.00	-4294	3664	0.3051
-pe-	5.00	15.00	-4284	3672	0.3050
-pe-	5.00	15.00	-4282	3670	0.3048
-pe-	5.00	15.00	-4276	3672	0.3047
-pe-	5.00	15.01	-4274	3676	0.3047
-pe-	5.00	15.01	-4267	3679	0.3046
-pe-	5.00	15.01	-4272	3673	0.3045

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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: 0.3309 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.2783 W/mK
Percent Difference: 17.27%

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
20.00	0.3339	0.2904	0.3121
15.00	0.3333	0.2841	0.3087
10.00	0.3309	0.2783	0.3046