

Saturday, October 23, 2021, Time 12:00

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.40.20.40#3

Thickness: 29.17mm

Rear Left : 29.08 mm

Rear Right : 29.08 mm

Front Left: 29.26 mm

Front Right: 29.26 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: 101 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.92	24.42	-11816	4327	0.7192
-ne-	15.00	24.97	-8330	2876	0.4261
-te-	15.00	25.01	-6974	3424	0.3938
-te-	15.00	25.01	-6218	3807	0.3796
-te-	15.00	25.01	-5737	4058	0.3709
-te-	15.00	25.01	-5427	4206	0.3647
-te-	15.00	25.01	-5232	4313	0.3614
-te-	15.00	25.01	-5107	4381	0.3593
-te-	15.01	25.02	-5025	4417	0.3574
-te-	15.01	25.01	-4969	4449	0.3566
-te-	15.01	25.02	-4933	4467	0.3558
-pe-	15.00	25.01	-4913	4479	0.3555
-pe-	15.00	25.01	-4894	4489	0.3551
-pe-	15.00	25.01	-4880	4496	0.3549
-pe-	15.00	25.02	-4868	4497	0.3544
-pe-	15.01	25.01	-4862	4499	0.3544
-pe-	15.01	25.02	-4858	4502	0.3543
-pe-	15.00	25.02	-4851	4502	0.3539
-pe-	15.01	25.02	-4849	4500	0.3539
-pe-	15.01	25.02	-4846	4500	0.3538
-pe-	15.01	25.02	-4845	4498	0.3537
-pe-	15.01	25.02	-4844	4497	0.3536
-pe-	15.01	25.02	-4843	4495	0.3535
-pe-	15.00	25.01	-4844	4494	0.3535

Saturday, October 23, 2021, Time 13:42

Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.3673 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3398 W/mK

Percent Difference: 7.78%

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: 89 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.20	20.05	-13672	-2208	0.6172
-te-	9.99	20.00	-9129	2199	0.4334
-te-	10.00	20.00	-7652	2902	0.4034
-te-	10.00	20.00	-6669	3392	0.3843
-te-	10.00	20.00	-6031	3723	0.3724
-te-	10.00	20.00	-5613	3938	0.3645
-te-	10.00	20.00	-5344	4082	0.3597
-te-	10.00	20.00	-5163	4173	0.3562
-te-	10.01	20.01	-5045	4234	0.3540
-te-	10.00	20.01	-4966	4276	0.3525
-te-	10.00	20.01	-4917	4303	0.3516
-pe-	10.00	20.00	-4896	4316	0.3513
-pe-	10.00	20.00	-4863	4329	0.3504
-pe-	10.00	20.00	-4841	4340	0.3501
-pe-	10.00	20.00	-4823	4350	0.3497
-pe-	10.00	20.00	-4815	4354	0.3496
-pe-	10.00	20.01	-4809	4352	0.3492
-pe-	10.00	20.00	-4804	4356	0.3493
-pe-	10.00	20.00	-4802	4356	0.3492
-pe-	10.00	20.00	-4802	4355	0.3492
-pe-	10.00	20.01	-4805	4355	0.3493

Saturday, October 23, 2021, Time 15:11

Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026312
Results Upper: 0.3686 W/mK
Temperature Lower: 20.00 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3299 W/mK
Percent Difference: 11.08%

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: 114 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.27	15.07	-13360	-2202	0.6143
-ne-	4.94	14.95	-9069	2089	0.4310
-te-	4.99	15.00	-7526	2813	0.3985
-te-	5.00	15.00	-6567	3300	0.3798
-te-	5.00	15.00	-5938	3617	0.3675
-te-	5.00	15.00	-5528	3831	0.3596
-te-	5.00	15.00	-5259	3969	0.3544
-te-	5.00	15.00	-5082	4058	0.3510
-te-	5.00	15.00	-4968	4121	0.3489
-te-	5.00	15.00	-4893	4161	0.3475
-te-	5.00	15.00	-4839	4185	0.3464
-te-	5.00	15.00	-4806	4204	0.3458
-pe-	5.00	15.00	-4792	4212	0.3455
-pe-	4.99	15.00	-4774	4223	0.3453
-pe-	4.99	15.00	-4760	4234	0.3451
-pe-	5.00	15.01	-4746	4235	0.3445
-pe-	5.00	15.00	-4739	4240	0.3445

-pe-	5.00	15.01	-4738	4239	0.3444
-pe-	5.00	15.01	-4734	4238	0.3443
-pe-	5.00	15.01	-4728	4241	0.3442
-pe-	5.00	15.01	-4727	4240	0.3440
-pe-	5.00	15.01	-4726	4240	0.3440
-pe-	5.00	15.01	-4724	4239	0.3440
-pe-	5.00	15.01	-4719	4242	0.3438
-pe-	5.00	15.00	-4718	4241	0.3438
-pe-	5.00	15.01	-4716	4242	0.3437
-pe-	5.00	15.01	-4716	4241	0.3437

Saturday, October 23, 2021, Time 17:06

Setpoint No. 3
Setpoint Upper: 5.00 °C
Setpoint Lower: 15.00 °C
Temperature Upper: 5.00 °C
CalibFactor Upper: 0.026610
Results Upper: 0.3660 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.3216 W/mK
Percent Difference: 12.91%

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	0.3673	0.3398	0.3535
15.00	0.3686	0.3299	0.3492
10.00	0.3660	0.3216	0.3438