

Friday, November 05, 2021, Time 08:15

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE\_OSa.50.25.25#1

Thickness: 29.27mm

Rear Left : 29.21 mm

Rear Right : 29.26 mm

Front Left: 29.26 mm

Front Right: 29.34 mm

[ ]

[ ]

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: 80 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.30	24.52	-10810	3877	0.6790
-ne-	15.00	24.95	-7577	3066	0.4067
-te-	15.00	25.01	-6439	3666	0.3839
-te-	15.00	25.01	-5890	4023	0.3765
-te-	15.00	25.01	-5539	4258	0.3721
-te-	15.00	25.01	-5319	4408	0.3695
-te-	15.01	25.01	-5177	4503	0.3677
-te-	15.01	25.01	-5088	4562	0.3666
-te-	15.01	25.01	-5033	4599	0.3658
-te-	15.01	25.01	-5000	4621	0.3654
-pe-	15.00	25.01	-4989	4630	0.3653
-pe-	15.00	25.01	-4980	4639	0.3652
-pe-	14.99	25.00	-4974	4640	0.3651
-pe-	14.99	25.00	-4971	4639	0.3650
-pe-	14.99	25.00	-4968	4642	0.3651
-pe-	14.99	25.00	-4965	4647	0.3652
-pe-	15.00	25.00	-4964	4651	0.3653
-pe-	15.00	25.01	-4963	4652	0.3653
-pe-	15.00	25.01	-4965	4653	0.3653

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Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.00 °C

CalibFactor Upper: 0.026017

Results Upper: 0.3778 W/mK

Temperature Lower: 25.00 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3529 W/mK

Percent Difference: 6.81%

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 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.23	20.10	-13074	-2720	0.6145
-te-	9.99	19.98	-8795	1889	0.4110
-te-	9.99	20.00	-7468	2752	0.3920
-te-	10.00	20.00	-6566	3368	0.3807
-te-	10.00	20.00	-5977	3768	0.3732
-te-	10.00	20.00	-5595	4033	0.3686
-te-	10.00	20.00	-5339	4197	0.3652
-te-	10.00	20.01	-5174	4318	0.3632
-te-	10.00	20.00	-5070	4384	0.3618
-te-	10.00	20.00	-4997	4435	0.3609
-te-	10.00	20.01	-4951	4464	0.3602
-pe-	10.00	20.00	-4930	4476	0.3598
-pe-	10.00	20.00	-4906	4494	0.3596
-pe-	10.00	20.01	-4890	4510	0.3595
-pe-	10.00	20.00	-4883	4508	0.3591
-pe-	10.00	20.01	-4878	4508	0.3590
-pe-	10.00	20.00	-4876	4510	0.3591
-pe-	10.00	20.00	-4874	4513	0.3591
-pe-	10.00	20.00	-4870	4516	0.3590
-pe-	10.00	20.01	-4871	4514	0.3590

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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: 0.3751 W/mK  
Temperature Lower: 20.00 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.3430 W/mK  
Percent Difference: 8.92%

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: 97 min

## Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.32	15.15	-12695	-2652	0.6054
-ne-	4.91	14.87	-8767	1696	0.4076
-te-	4.99	15.00	-7314	2727	0.3884
-te-	5.00	15.00	-6439	3300	0.3761
-te-	5.00	15.00	-5859	3693	0.3684
-te-	5.00	15.00	-5479	3948	0.3634
-te-	5.00	15.01	-5233	4114	0.3601
-te-	5.00	15.01	-5071	4222	0.3580
-te-	5.00	15.01	-4971	4289	0.3566
-te-	5.00	15.01	-4898	4336	0.3555
-te-	5.00	15.01	-4855	4364	0.3549
-pe-	5.00	15.00	-4837	4376	0.3546
-pe-	4.99	15.00	-4811	4391	0.3542
-pe-	5.00	15.00	-4797	4401	0.3540
-pe-	5.00	15.00	-4784	4407	0.3538
-pe-	5.00	15.00	-4782	4409	0.3538
-pe-	5.00	15.00	-4780	4411	0.3537
-pe-	5.00	15.00	-4779	4410	0.3537
-pe-	5.00	15.00	-4779	4411	0.3538
-pe-	5.00	15.00	-4780	4413	0.3539
-pe-	5.00	15.00	-4780	4414	0.3539
-pe-	5.00	15.00	-4777	4416	0.3539
-pe-	5.00	15.00	-4778	4416	0.3539

Setpoint No. 3  
Setpoint Upper: 5.00 °C  
Setpoint Lower: 15.00 °C  
Temperature Upper: 5.00 °C  
CalibFactor Upper: 0.026610  
Results Upper: 0.3720 W/mK  
Temperature Lower: 15.00 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.3359 W/mK  
Percent Difference: 10.20%

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	0.3778	0.3529	0.3653
15.00	0.3751	0.3430	0.3591
10.00	0.3720	0.3359	0.3539