

Thursday, December 01, 2022, Time 09:33

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: wall 3 sample 2 - 20221201

Thickness: 29.20mm

Rear Left : 29.24 mm

Rear Right : 29.03 mm

Front Left: 29.36 mm

Front Right: 29.18 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-	15.43	24.13	-4502	12986	0.7619
-ne-	15.02	25.01	-4459	8990	0.5105
-te-	15.01	25.02	-4858	7894	0.4830
-te-	15.01	25.02	-5115	7380	0.4733
-te-	15.01	25.02	-5265	7082	0.4678
-te-	15.01	25.02	-5355	6902	0.4643
-te-	15.01	25.02	-5407	6794	0.4623
-te-	15.01	25.02	-5440	6726	0.4609
-te-	15.01	25.02	-5458	6692	0.4603
-pe-	15.01	25.02	-5469	6673	0.4600
-pe-	15.01	25.02	-5480	6648	0.4595
-pe-	15.01	25.02	-5486	6634	0.4591
-pe-	15.00	25.01	-5491	6626	0.4591
-pe-	15.01	25.02	-5493	6622	0.4590
-pe-	15.01	25.02	-5495	6621	0.4590
-pe-	15.01	25.02	-5492	6618	0.4587
-pe-	15.01	25.02	-5493	6612	0.4586
-pe-	15.01	25.02	-5495	6608	0.4585
-pe-	15.00	25.01	-5494	6611	0.4587

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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: 0.4170 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.5002 W/mK

Percent Difference: 18.14%

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]
-ne-	10.12	20.06	-11030	-5744	0.6457
-te-	9.99	20.00	-8337	958	0.3563
-te-	10.00	19.99	-7223	2992	0.3913
-te-	10.00	20.00	-6529	4294	0.4138
-te-	10.00	20.00	-6098	5114	0.4282
-te-	10.00	20.00	-5831	5619	0.4371
-te-	10.00	20.00	-5662	5927	0.4422
-te-	10.00	20.00	-5560	6131	0.4460
-te-	10.00	20.00	-5492	6257	0.4482
-te-	10.01	20.00	-5446	6338	0.4496
-te-	10.00	20.01	-5418	6387	0.4502
-pe-	10.00	20.00	-5401	6410	0.4505
-pe-	10.00	20.00	-5385	6434	0.4510
-pe-	10.00	20.00	-5378	6445	0.4510
-pe-	10.00	20.00	-5372	6459	0.4514
-pe-	10.00	20.00	-5371	6462	0.4513
-pe-	10.00	20.00	-5370	6465	0.4515
-pe-	10.00	20.00	-5368	6468	0.4515
-pe-	10.00	20.00	-5372	6466	0.4515

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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: 0.4126 W/mK  
Temperature Lower: 20.00 °C  
CalibFactor Lower: 0.025969  
Results Lower: 0.4904 W/mK  
Percent Difference: 17.22%

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 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.19	15.06	-10628	-5713	0.6381
-te-	4.99	15.00	-8135	884	0.3494
-te-	5.00	15.00	-7053	2910	0.3842
-te-	5.00	15.00	-6378	4172	0.4062
-te-	5.00	15.00	-5959	4978	0.4203
-te-	5.00	15.00	-5697	5471	0.4289
-te-	5.00	15.00	-5536	5780	0.4343
-te-	5.00	15.00	-5435	5976	0.4378
-te-	5.00	15.01	-5369	6095	0.4398
-te-	5.00	15.01	-5327	6179	0.4414
-te-	5.00	15.01	-5295	6232	0.4421
-te-	5.00	15.01	-5275	6263	0.4426
-pe-	5.00	15.00	-5268	6271	0.4426
-pe-	5.00	15.00	-5260	6284	0.4429
-pe-	5.00	15.00	-5258	6293	0.4431
-pe-	5.00	15.00	-5254	6299	0.4431
-pe-	5.00	15.00	-5258	6304	0.4435
-pe-	5.00	15.00	-5254	6313	0.4437
-pe-	5.00	15.00	-5252	6315	0.4437
-pe-	5.00	15.00	-5249	6321	0.4437
-pe-	5.00	15.01	-5247	6319	0.4436

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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: 0.4078 W/mK  
Temperature Lower: 15.01 °C  
CalibFactor Lower: 0.026003  
Results Lower: 0.4796 W/mK  
Percent Difference: 16.20%

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
20.01	0.4170	0.5002	0.4586
15.00	0.4126	0.4904	0.4515
10.00	0.4078	0.4796	0.4437