

Thursday, December 14, 2023, Time 12:15

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: 2023_12_14_60V+40T+4vap_sample 3

Thickness: 28.06mm

Rear Left : 28.14 mm

Rear Right : 28.57 mm

Front Left: 27.53 mm

Front Right: 27.99 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: 59 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.58	24.19	-12746	8241	0.8882
-ne-	14.99	24.98	-8792	6155	0.5457
-te-	15.00	25.01	-7842	6695	0.5295
-te-	15.00	25.01	-7521	7003	0.5289
-te-	15.00	25.01	-7358	7168	0.5289
-te-	15.01	25.01	-7276	7239	0.5286
-te-	15.01	25.02	-7237	7283	0.5287
-pe-	15.00	25.01	-7226	7294	0.5287
-pe-	15.00	25.01	-7212	7306	0.5286
-pe-	15.00	25.01	-7201	7319	0.5287
-pe-	15.00	25.01	-7196	7326	0.5289
-pe-	15.00	25.01	-7187	7335	0.5288
-pe-	15.00	25.01	-7184	7336	0.5286
-pe-	15.01	25.01	-7190	7331	0.5287

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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: 0.5242 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.5332 W/mK

Percent Difference: 1.70%

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: 72 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.15	20.06	-16593	-3629	0.7514

	9.99	19.99	-11002	3351	0.5280
-te-	10.00	19.99	-9040	5238	0.5249
-te-	10.00	20.00	-8051	6204	0.5232
-te-	10.00	20.01	-7567	6691	0.5230
-te-	10.00	20.01	-7319	6928	0.5225
-te-	10.00	20.01	-7187	7052	0.5222
-te-	10.01	20.01	-7120	7113	0.5220
-te-	10.01	20.01	-7089	7140	0.5217
-pe-	10.00	20.00	-7077	7151	0.5217
-pe-	10.00	20.00	-7057	7160	0.5211
-pe-	10.00	20.00	-7046	7170	0.5212
-pe-	10.00	20.01	-7041	7168	0.5209
-pe-	10.00	20.01	-7040	7166	0.5209
-pe-	10.00	20.00	-7039	7167	0.5210
-pe-	10.00	20.00	-7038	7168	0.5209
-pe-	10.00	20.00	-7042	7166	0.5210

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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:	0.5197	W/mK
Temperature Lower:	20.00	°C
CalibFactor Lower:	0.025969	
Results Lower:	0.5222	W/mK
Percent Difference:	0.48%	

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: 63 min

Block Averages for setpoint 3 in SI units				
Tupper	Tlower	Qupper	Qlower	Lambda
[°C]	[°C]	[μV]	[μV]	[W/mK]
5.24	15.08	-16427	-3578	0.7560
4.98	14.99	-10858	3233	0.5231
4.99	15.00	-8905	5113	0.5186
5.00	15.00	-7917	6076	0.5170
5.00	15.00	-7427	6554	0.5162
5.00	15.01	-7184	6790	0.5156
5.00	15.00	-7068	6903	0.5155
5.00	15.00	-7006	6960	0.5153
5.00	15.00	-6978	6999	0.5157
5.00	15.00	-6963	7013	0.5156
5.00	15.00	-6949	7025	0.5155
5.00	15.00	-6935	7037	0.5153
5.00	15.01	-6926	7043	0.5151
5.00	15.01	-6925	7037	0.5149
5.00	15.01	-6927	7034	0.5150

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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:	0.5168	W/mK
Temperature Lower:	15.01	°C
CalibFactor Lower:	0.026002	
Results Lower:	0.5132	W/mK
Percent Difference:	0.70%	

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	0.5242	0.5332	0.5287
15.00	0.5197	0.5222	0.5210
10.00	0.5168	0.5132	0.5150