

Thursday, December 14, 2023, Time 08:37

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 2

Thickness: 28.75mm

Rear Left : 28.73 mm

Rear Right : 28.96 mm

Front Left: 28.55 mm

Front Right: 28.78 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-	15.49	24.16	-4215	14191	0.7915
-ne-	15.03	25.01	-4954	9921	0.5563
-te-	15.01	25.02	-5944	8540	0.5402
-te-	15.00	25.01	-6495	7954	0.5389
-te-	15.00	25.01	-6765	7666	0.5385
-te-	15.00	25.01	-6903	7518	0.5381
-te-	15.00	25.01	-6972	7448	0.5379
-te-	15.01	25.02	-7011	7415	0.5382
-pe-	15.01	25.02	-7023	7397	0.5380
-pe-	15.01	25.02	-7036	7381	0.5379
-pe-	15.01	25.02	-7046	7370	0.5379
-pe-	15.01	25.02	-7051	7369	0.5380
-pe-	15.00	25.01	-7063	7352	0.5379
-pe-	15.01	25.01	-7062	7365	0.5385

Thursday, December 14, 2023, Time 09:36

Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.5277 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.5486 W/mK

Percent Difference: 3.89%

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: 67 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.16	20.07	-16242	-3871	0.7654

	9.99	20.00	-10813	3134	0.5259
-te-	10.00	19.99	-8962	5096	0.5296
-te-	10.00	20.00	-8000	6129	0.5314
-te-	10.00	20.01	-7514	6659	0.5328
-te-	10.00	20.01	-7248	6936	0.5330
-te-	10.00	20.00	-7119	7077	0.5334
-te-	10.00	20.00	-7059	7140	0.5335
-te-	10.00	20.00	-7025	7187	0.5340
-pe-	10.00	20.00	-7014	7201	0.5343
-pe-	10.00	20.00	-6998	7225	0.5345
-pe-	10.00	20.00	-6986	7240	0.5345
-pe-	10.00	20.00	-6975	7251	0.5345
-pe-	10.00	20.01	-6968	7254	0.5343
-pe-	10.00	20.01	-6964	7254	0.5341
-pe-	10.01	20.01	-6970	7247	0.5341

Thursday, December 14, 2023, Time 10:44

Setpoint No.	2	
Setpoint Upper:	10.00	°C
Setpoint Lower:	20.00	°C
Temperature Upper:	10.01	°C
CalibFactor Upper:	0.026312	
Results Upper:	0.5270	W/mK
Temperature Lower:	20.01	°C
CalibFactor Lower:	0.025969	
Results Lower:	0.5413	W/mK
Percent Difference:	2.69%	

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 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.24	15.08	-16052	-3851	0.7699
-te-	4.99	15.00	-10652	3046	0.5212
-te-	5.00	15.00	-8824	4992	0.5238
-te-	5.00	15.00	-7878	6014	0.5258
-te-	5.00	15.00	-7393	6533	0.5267
-te-	5.00	15.00	-7139	6807	0.5274
-te-	5.00	15.00	-7011	6957	0.5279
-te-	5.00	15.00	-6937	7034	0.5280
-te-	5.00	15.01	-6901	7071	0.5281
-pe-	5.00	15.00	-6887	7085	0.5281
-pe-	5.00	15.00	-6873	7099	0.5281
-pe-	5.00	15.00	-6869	7106	0.5282
-pe-	5.00	15.00	-6861	7112	0.5281
-pe-	5.00	15.00	-6853	7118	0.5280
-pe-	5.00	15.01	-6848	7116	0.5277
-pe-	5.00	15.01	-6846	7115	0.5276
-pe-	5.00	15.01	-6848	7117	0.5276

Thursday, December 14, 2023, Time 11:56

Setpoint No.	3	
Setpoint Upper:	5.00	°C
Setpoint Lower:	15.00	°C
Temperature Upper:	5.00	°C
CalibFactor Upper:	0.026610	
Results Upper:	0.5235	W/mK
Temperature Lower:	15.01	°C
CalibFactor Lower:	0.026002	
Results Lower:	0.5317	W/mK
Percent Difference:	1.54%	

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	0.5277	0.5486	0.5381
15.01	0.5270	0.5413	0.5342
10.01	0.5235	0.5317	0.5276