

Monday, January 09, 2023, Time 08:15

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: vap4-s2-2023-01-09

Thickness: 29.08mm

Rear Left : 28.85 mm

Rear Right : 29.21 mm

Front Left: 28.96 mm

Front Right: 29.31 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: 72 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.34	24.06	-8012	10899	0.8186
-ne-	15.01	25.00	-6281	7580	0.5240
-te-	15.00	25.01	-6303	7117	0.5063
-te-	15.00	25.01	-6396	6985	0.5050
-te-	15.00	25.01	-6442	6929	0.5046
-te-	15.00	25.01	-6464	6911	0.5047
-pe-	15.01	25.02	-6473	6900	0.5047
-pe-	15.01	25.02	-6478	6891	0.5044
-pe-	15.01	25.02	-6483	6882	0.5043
-pe-	15.01	25.02	-6486	6874	0.5041
-pe-	15.01	25.02	-6482	6874	0.5039
-pe-	15.01	25.02	-6478	6873	0.5038
-pe-	15.01	25.02	-6480	6868	0.5037
-pe-	15.00	25.02	-6481	6862	0.5034
-pe-	15.00	25.01	-6480	6861	0.5034
-pe-	15.01	25.01	-6480	6861	0.5035
-pe-	15.00	25.01	-6480	6863	0.5035

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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: 0.4899 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.5171 W/mK

Percent Difference: 5.40%

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-	10.11	20.07	-14473	-5160	0.7517
-te-	9.99	19.99	-9824	1935	0.4488
-te-	10.00	19.99	-8262	4056	0.4696
-te-	10.00	20.00	-7390	5251	0.4811
-te-	10.01	20.01	-6915	5904	0.4875
-te-	10.00	20.01	-6651	6271	0.4911
-te-	10.01	20.01	-6501	6461	0.4927
-te-	10.01	20.01	-6417	6570	0.4935
-te-	10.01	20.01	-6367	6631	0.4939
-te-	10.00	20.01	-6338	6662	0.4940
-pe-	10.00	20.00	-6332	6668	0.4941
-pe-	10.00	20.00	-6328	6681	0.4945
-pe-	10.00	20.00	-6323	6697	0.4949
-pe-	10.00	20.00	-6323	6711	0.4954
-pe-	10.00	20.00	-6320	6721	0.4957
-pe-	10.00	20.00	-6319	6723	0.4956
-pe-	10.01	20.01	-6322	6719	0.4955

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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:	0.4836	W/mK	
Temperature Lower:	20.00	°C	
CalibFactor Lower:	0.025969		
Results Lower:	0.5076	W/mK	
Percent Difference:	4.83%		

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: 93 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.19	15.07	-14068	-5098	0.7460
-te-	4.99	14.99	-9654	1863	0.4438
-te-	5.00	15.00	-8113	3953	0.4631
-te-	5.00	15.01	-7254	5130	0.4744
-te-	5.00	15.00	-6786	5773	0.4806
-te-	5.00	15.01	-6529	6120	0.4839
-te-	5.00	15.01	-6375	6329	0.4858
-te-	5.00	15.01	-6295	6440	0.4868
-te-	5.00	15.00	-6251	6499	0.4874
-te-	5.00	15.00	-6229	6527	0.4875
-pe-	5.00	15.00	-6223	6538	0.4878
-pe-	4.99	15.00	-6216	6555	0.4882
-pe-	5.00	15.00	-6212	6569	0.4886
-pe-	5.00	15.00	-6211	6576	0.4889
-pe-	5.00	15.00	-6208	6584	0.4891
-pe-	5.00	15.00	-6204	6589	0.4890
-pe-	5.00	15.01	-6199	6592	0.4888
-pe-	5.00	15.01	-6197	6592	0.4888
-pe-	5.00	15.01	-6196	6586	0.4884
-pe-	5.00	15.01	-6193	6579	0.4880
-pe-	5.00	15.01	-6188	6577	0.4878
-pe-	5.00	15.01	-6195	6566	0.4876

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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: 0.4789 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.4968 W/mK
Percent Difference: 3.68%

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	0.4899	0.5171	0.5035
15.00	0.4836	0.5076	0.4956
10.00	0.4789	0.4968	0.4878