

Thursday, October 28, 2021, Time 10:06

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.44.56.0#3

Thickness: 33.78mm

Rear Left : 33.88 mm

Rear Right : 33.76 mm

Front Left: 33.81 mm

Front Right: 33.65 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: 110 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.68	24.39	-8457	4651	0.6605
-ne-	15.00	24.99	-5242	1620	0.3016
-te-	15.00	25.01	-4459	1786	0.2738
-te-	15.00	25.01	-3975	1981	0.2611
-te-	15.00	25.01	-3617	2132	0.2521
-te-	15.00	25.01	-3362	2236	0.2454
-te-	15.00	25.01	-3175	2311	0.2405
-te-	15.00	25.01	-3031	2374	0.2369
-te-	15.01	25.01	-2928	2416	0.2342
-te-	15.01	25.01	-2849	2450	0.2323
-te-	15.01	25.02	-2798	2472	0.2309
-te-	15.01	25.01	-2755	2488	0.2299
-pe-	15.00	25.01	-2736	2494	0.2292
-pe-	15.00	25.01	-2712	2506	0.2287
-pe-	15.00	25.01	-2695	2515	0.2283
-pe-	15.00	25.01	-2682	2520	0.2280
-pe-	15.00	25.01	-2674	2523	0.2278
-pe-	15.00	25.01	-2669	2523	0.2276
-pe-	15.00	25.01	-2666	2526	0.2276
-pe-	15.00	25.01	-2664	2525	0.2275
-pe-	15.00	25.01	-2664	2528	0.2276
-pe-	15.00	25.01	-2660	2530	0.2275
-pe-	15.01	25.02	-2660	2530	0.2274
-pe-	15.01	25.02	-2658	2529	0.2273
-pe-	15.01	25.02	-2657	2530	0.2274
-pe-	15.01	25.02	-2658	2531	0.2274

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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: 0.2333 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.2214 W/mK

Percent Difference: 5.24%

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 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.15	20.04	-9974	-2563	0.5615
-te-	10.00	20.00	-6059	1091	0.3168
-te-	10.00	20.00	-5216	1387	0.2926
-te-	10.00	20.00	-4540	1657	0.2743
-te-	10.00	20.00	-4024	1870	0.2608
-te-	10.00	20.00	-3639	2030	0.2507
-te-	10.00	20.00	-3359	2145	0.2433
-te-	10.00	20.00	-3153	2233	0.2380
-te-	10.00	20.00	-3006	2290	0.2339
-te-	10.00	20.01	-2895	2337	0.2311
-te-	10.00	20.01	-2817	2372	0.2292
-te-	10.00	20.01	-2760	2395	0.2276
-te-	10.01	20.01	-2715	2408	0.2262
-pe-	10.00	20.00	-2698	2419	0.2259
-pe-	10.00	20.00	-2675	2431	0.2254
-pe-	10.00	20.00	-2655	2437	0.2248
-pe-	10.00	20.00	-2644	2444	0.2245
-pe-	10.00	20.00	-2632	2445	0.2241
-pe-	10.00	20.01	-2622	2453	0.2240
-pe-	10.00	20.01	-2620	2451	0.2238
-pe-	10.00	20.01	-2621	2450	0.2239

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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: 0.2329 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.2149 W/mK
Percent Difference: 8.01%

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: 110 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.24	15.06	-9682	-2548	0.5570
-te-	4.99	15.00	-5957	1084	0.3149
-te-	4.99	15.00	-5123	1348	0.2892
-te-	5.00	15.00	-4456	1615	0.2710
-te-	5.00	15.00	-3952	1819	0.2573
-te-	5.00	15.01	-3578	1973	0.2473
-te-	5.00	15.01	-3305	2087	0.2400
-te-	5.00	15.00	-3104	2170	0.2346
-te-	5.00	15.00	-2963	2225	0.2307
-te-	5.00	15.00	-2853	2272	0.2279
-te-	5.00	15.00	-2778	2302	0.2258
-te-	5.00	15.00	-2720	2326	0.2243
-te-	5.00	15.01	-2684	2342	0.2233
-pe-	5.00	15.00	-2660	2352	0.2227
-pe-	4.99	15.00	-2639	2363	0.2222

-pe-	4.99	15.00	-2621	2370	0.2217
-pe-	4.99	15.00	-2607	2373	0.2212
-pe-	5.00	15.00	-2600	2376	0.2211
-pe-	5.00	15.00	-2594	2380	0.2210
-pe-	5.00	15.00	-2586	2384	0.2207
-pe-	5.00	15.01	-2580	2384	0.2205
-pe-	5.00	15.01	-2579	2385	0.2205
-pe-	5.00	15.01	-2579	2385	0.2205
-pe-	5.00	15.00	-2579	2384	0.2205
-pe-	5.00	15.00	-2575	2388	0.2205
-pe-	5.00	15.01	-2576	2386	0.2204

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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: 0.2314 W/mK
Temperature Lower: 15.00 °C
CalibFactor Lower: 0.026003
Results Lower: 0.2095 W/mK
Percent Difference: 9.97%

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	0.2333	0.2214	0.2274
15.01	0.2329	0.2149	0.2239
10.00	0.2314	0.2095	0.2205