



THE BELMONT® RAPID INFUSER RI-2

HEATING PERFORMANCE

TEST CONDITIONS

- Ice cold water was warmed through The Belmont® Rapid Infuser RI-2 at a fixed rate of 500 mL/min to determine how quickly fluid reaches normothermic temperatures.

RESULTS



12.23 SECONDS
TIME FOR OUTPUT FLUID
TEMPERATURE TO REACH 30°C

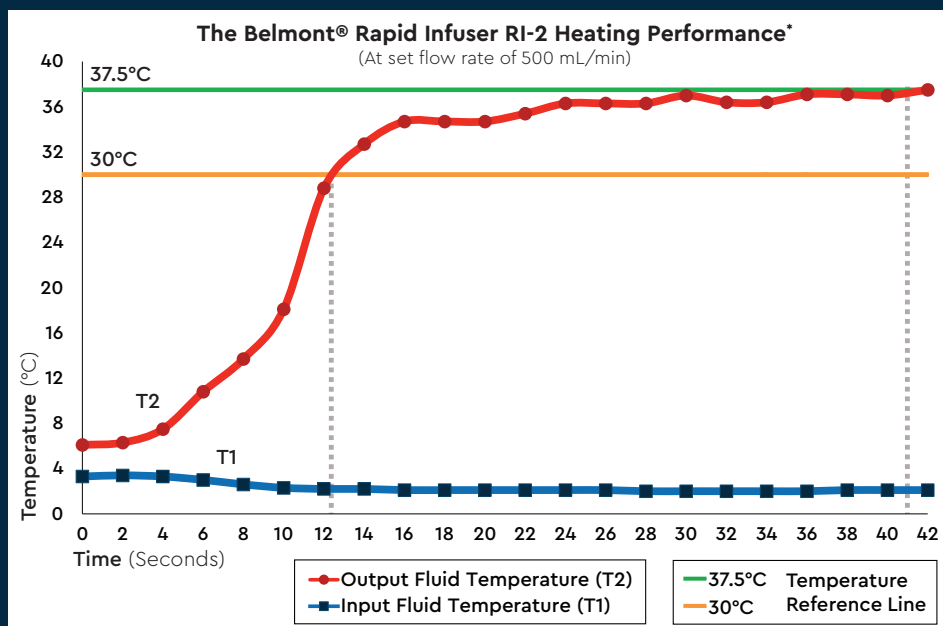


41.09 SECONDS
TIME FOR OUTPUT FLUID
TEMPERATURE TO REACH 37.5°C

RAW DATA FROM DIGITAL THERMOMETER

Time (seconds)	Input Fluid Temperature (°C)	Output Fluid Temperature (°C)
0	3.3	6.1
2	3.4	6.3
4	3.3	7.5
6	3	10.8
8	2.6	13.7
10	2.3	18.1
12	2.2	28.8
14	2.2	32.7
16	2.1	34.7
18	2.1	34.7
20	2.1	34.7
22	2.1	35.4
24	2.1	36.3
26	2.1	36.3
28	2	36.3
30	2	37
32	2	36.4
34	2	36.4
36	2	37.1
38	2.1	37.1
40	2.1	37
42	2.1	37.5

Digital thermometer records fluid temperature readings every 2 seconds. Total time to warm is taken directly from real time screen reading and video timing.



CONCLUSION

- Dry, electromagnetic induction heating provided near instantaneous fluid warming.



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