

HEATING PERFORMANCE



TEST CONDITIONS

- Ice cold water with an average input temperature of 2.3°C 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



19.22 SECONDS
TIME FOR OUTPUT FLUID
TEMPERATURE TO REACH 35°C*



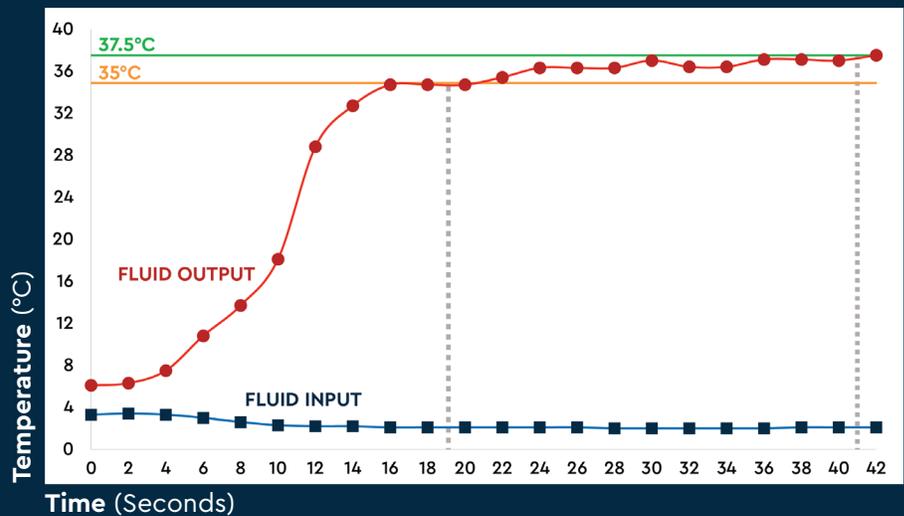
41.09 SECONDS
TIME FOR OUTPUT FLUID
TEMPERATURE TO REACH 37.5°C*

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	3.0	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	2.0	36.3
30	2.0	37.0
32	2.0	36.4
34	2.0	36.4
36	2.0	37.1
38	2.1	37.1
40	2.1	37.0
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.

FLUID WARMING AT SET FLOW RATE OF 500 ML/MIN



CONCLUSION

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