CLAIMS

1. An apparatus, comprising:

a system, including:

a reagent cartridge receptacle;

a non-contact temperature controller; and

a processor operatively coupled to the temperature controller;

a reagent cartridge receivable within the reagent cartridge receptacle, the reagent cartridge, comprising:

a flow cell assembly;

a plurality of reagent reservoirs; and

a manifold assembly, comprising:

a common fluidic line; and

a plurality of reagent fluidic lines, each of the plurality of reagent fluidic lines being adapted to be fluidically coupled to a corresponding reagent reservoir and selectively couplable to the common fluidic line,

wherein the processor is to cause the temperature controller to change a temperature of at least one of the common fluidic line or one or more of the reagent fluidic lines.

2. The apparatus of claim 1, wherein the reagent cartridge comprises a body having a window to enable the temperature controller to change a temperature of at least one of the common fluidic line or one or more of the reagent fluidic lines.

3. The apparatus of claim 2, wherein the reagent cartridge further comprises a waste reservoir having a second window that is aligned with the window of the body.

4. The apparatus of claim 1, wherein the temperature controller is spaced from the manifold assembly.

5. The apparatus of claim 1, wherein the temperature controller comprises a temperature sensor positioned to determine a temperature associated with at least one of the common fluidic line or one or more of the reagent fluidic lines and, the processor is configured to compare the determined temperature to a reference temperature, and wherein in response to the determined temperature being outside of a threshold of the reference temperature, the processor causes the temperature controller to change a temperature of at least one of the common fluidic line or one or more of the reagent fluidic lines.

6. The apparatus of claim 1, wherein the temperature controller comprises a heater and a temperature sensor, the heater being positioned to heat at least one of the common fluidic line or one or more of the reagent fluidic lines and the temperature sensor being positioned to determine a temperature associated with at least one of the common

fluidic line or one or more of the reagent fluidic lines, and wherein the processor is adapted to control the heater based on the temperature determined by the temperature sensor.

7. The apparatus of claim 6, wherein the heater comprises at least one of a non-contact heater, an infrared heater, and/or a LED heater.

8. The apparatus of claim 7, wherein the heater comprises a LED heater and the apparatus further comprising an orifice positioned to direct a beam emitted by the LED heater toward the at least one of the common fluidic line or one or more of the reagent fluidic lines.

9. The apparatus of claim 1, wherein the temperature controller further comprises a cooler, wherein the cooler comprises a nozzle, a valve, and an air source fluidically coupled to the nozzle by the valve.

10. The apparatus of claim 1, wherein the manifold assembly comprises a body and a membrane coupled to a surface of the body and the common fluidic line is defined between the membrane and the body, the body being on a first side of the common fluidic line and the membrane being on a second side of the common fluidic line.

11. The apparatus of claim 10, wherein the temperature controller is positioned on at least one of the first side or the second side of the common fluidic line to change a temperature of the common fluidic line.

12. The apparatus of claim 10, wherein the reagent fluidic lines of the manifold assembly are defined between the membrane and the body, wherein each of reagent fluidic lines comprises a membrane valve and a corresponding actuator disposed within the manifold assembly adapted to move the opposing membrane away from a valve seat of the corresponding membrane valve.

13. The apparatus of claim 12, wherein the temperature controller is positioned on at least one of the first side or the second side of the common fluidic line to change a temperature of the corresponding reagent fluidic line.

14. An apparatus, comprising:

a reagent cartridge comprising:

a plurality of reagent reservoirs;

a temperature controller; and

a manifold assembly, comprising:

a common fluidic line; and

a plurality of reagent fluidic lines, each of the plurality of reagent fluidic lines being adapted to be fluidically coupled to a corresponding reagent reservoir,

wherein the temperature controller is positioned to apply at least one of heat or cold to the common fluidic line.

15. The apparatus of claim 14, wherein the temperature controller is coupled to a surface of the reagent cartridge, the temperature controller comprising a heater and a temperature sensor, the heater being positioned to heat the common fluidic line and the temperature sensor is positioned to determine a temperature associated with the common fluidic line.

16. The apparatus of claim 15, wherein the heater comprises a flexible heater and the temperature sensor comprises a thermocouple.

17. A method, comprising:

flowing reagent through at least one of a reagent fluidic line or a common fluidic line and toward a flow cell assembly;

determining a temperature associated with the reagent fluidic line or the common fluidic line;

comparing the determined temperature to a reference temperature; and

in response to the determined temperature being outside of a threshold of the reference temperature, changing a temperature of the reagent as the reagent is flowing through the at least one of the reagent fluidic line or the common fluidic line.

18. The method of claim 17, wherein changing the temperature of the reagent comprises heating the at least one of the reagent fluidic line or the common fluidic line.

19. The method of claim 18, wherein heating the at least one of the reagent fluidic line or the common fluidic line comprises heating the common fluidic line and substantially not heating the reagent fluidic line.

20. The method of claim 17, wherein the heating comprises heating using at least one of a flexible heater, an infrared heater, and/or a LED heater.