CLAIMS

What is claimed is:

1. An oven comprising:

a housing;

a cavity, located within said housing, for receiving food items;

a blower for delivering heated air to said cavity; and

an air deflection plate coupled to a nozzle plate having a plurality of nozzles for capturing and directing a portion of heated air from said blower to said cavity via nozzles located between said air deflection plate and said nozzle plate, while allowing the remaining heated air exiting said blower to move into said cavity via nozzles not located between said air deflection plate and said nozzle plate such that the velocities of heated air exiting all nozzles into said cavity are as close to each other as possible, said nozzle plate only allowing said heated air to pass from said blower to said cavity.

2. The oven of Claim 1, wherein diameters of said plurality of nozzles are approximately 0.375 inch.

3. The oven of Claim 1, wherein said nozzle plate has approximately one hole per 2.25 square inch to allow maximum cubic feet per minute (CFM) of airflow per square inch per cavity footprint area.

4. The oven of Claim 1, wherein said oven includes three air intakes for collecting heated air from said cavity.

5. The oven of Claim 4, wherein said three air intakes collect heated air from said cavity

in three orthogonal directions.

6. An oven comprising:

a housing;

a cavity, located within said housing, for receiving food items;

a blower for delivering heated air to said cavity; and

a plenum and a set of plates located within said cavity, wherein each plate of said set of plates includes a plurality of holes, and each of said plurality of holes forms a nozzle, and wherein said set of plates are stacked together to provide a plurality of concentric holes formed by said nozzle of one of said plurality of plates contacting another of said plurality of plates to form a plurality of nozzle-like features to direct heated air from said blower to a food item placed within said cavity for heating up said food item.

7. The oven of Claim 6, wherein said cavity includes a second plenum and a second set of plates stacked together to provide a plurality of concentric holes to form a plurality of nozzle-like features to direct heated air to said cavity for heating up said food item.

8. The oven of Claim 6, wherein holes in one of said first set of plates have a different diameter from holes in another one of said first set of plates.

9. The oven of Claim 6, wherein the hole diameter in a first one of said plates is approximately 0.575 inch, the hole diameter in a second one of said plates is approximately 0.475 inch, and the hole diameter in a third one of said plates is approximately 0.375 inch.

10. The oven of Claim 6, wherein one of said plates has approximately one hole per 2.25 square inch to allow maximum cubic feet per minute (CFM) of airflow per square inch of cavity

footprint area.

11. The oven of Claim 6, wherein said oven includes three air intakes for collecting heated air from said cavity.

12. The oven of Claim 11, wherein said three air intakes collect heated air from said cavity in three orthogonal directions.

13. An oven comprising:

a housing;

a cavity, located within said housing, for receiving food items;

a blower for delivering heated air to said cavity; and

three separate air intakes for collecting air from said cavity in three orthogonal directions at a rate greater than 2.5 cubic feet per minute (CFM) per square inch of cavity footprint area, wherein each of said three separate air intakes directly provide said collected air from said cavity to a heater plenum.

14. The oven of Claim 13, wherein said oven further includes an air deflection plate coupled to a nozzle plate having a plurality of nozzles for directing a portion of heated air from said blower to said cavity via nozzles located between said air deflection plate and said nozzle plate, while allowing the remaining heated air exiting said blower to move into said cavity via nozzles not located between said air deflection plate and said nozzle plate such that the velocities of heated air exiting all nozzles into said cavity are as close to each other as possible.

15. Oven of Claim 14, wherein said nozzle plate is formed by a plurality of plates stacked together to provide a plurality of concentric holes to form said nozzles.