

Text of the abstract

A mixer base assembly for use with a mixing vessel, and a method of using the mixer base assembly, are disclosed. The mixer base assembly comprising:

(a) a body having:

- i. an upper end including a mating face for mixing vessel connection;
- ii. a lower end including a cavity;
- iii. a plurality of side walls;
- iv. an inlet port arranged in a side wall;
- v. an outlet port arranged in a side wall;
- vi. at least one probe port arranged in a side wall; and,
- vii. a fluid mixing chamber including a baffle, the fluid mixing chamber having a bottom wall;

(b) an impeller seat arranged in the cavity in the lower end of the body; and,

(c) a levitating magnetic impeller arranged in the impeller seat, the impeller comprising a magnet, a base, and at least two blades, wherein the at least two blades extend above the bottom wall of the fluid mixing chamber into the fluid mixing chamber.