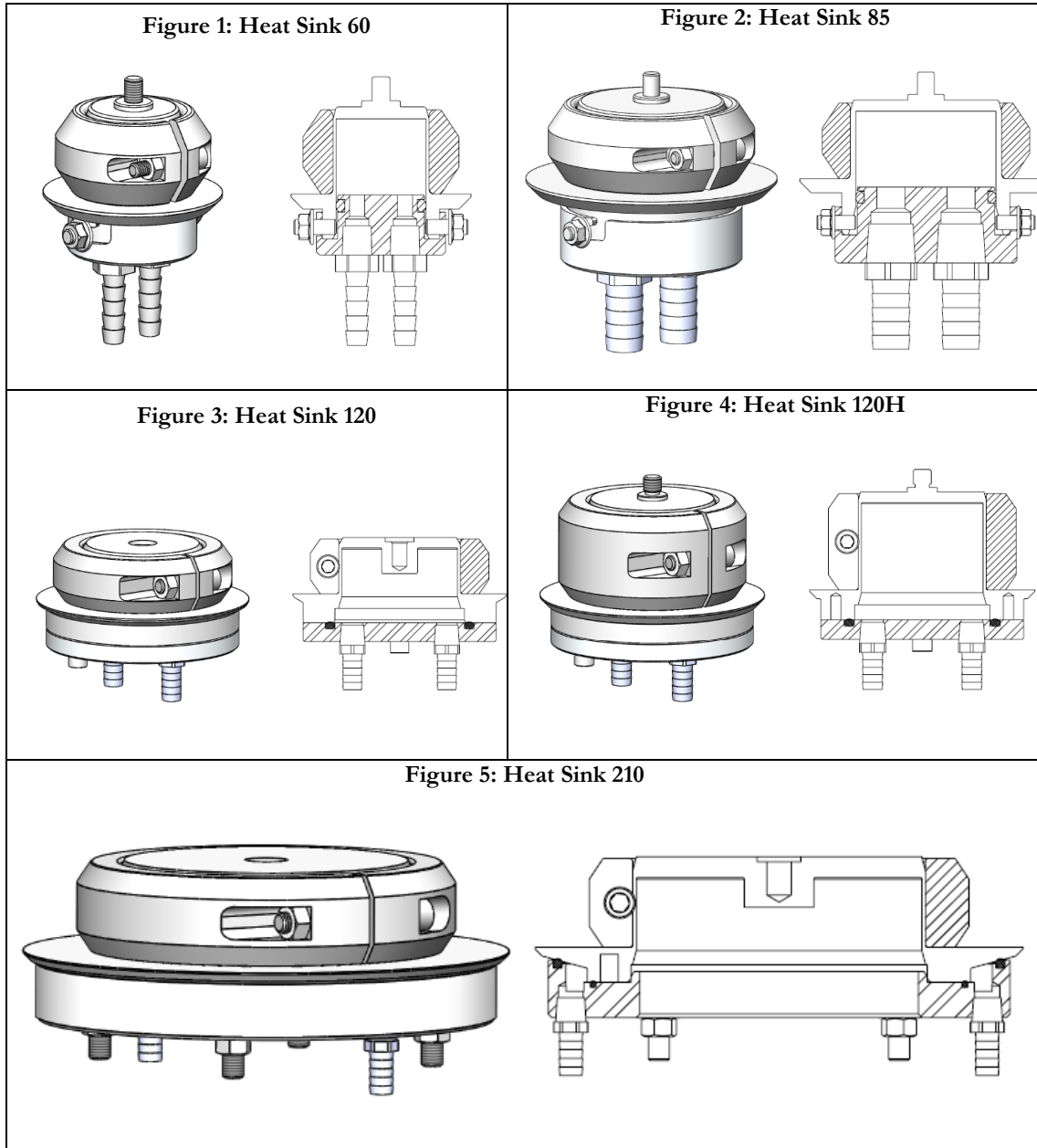
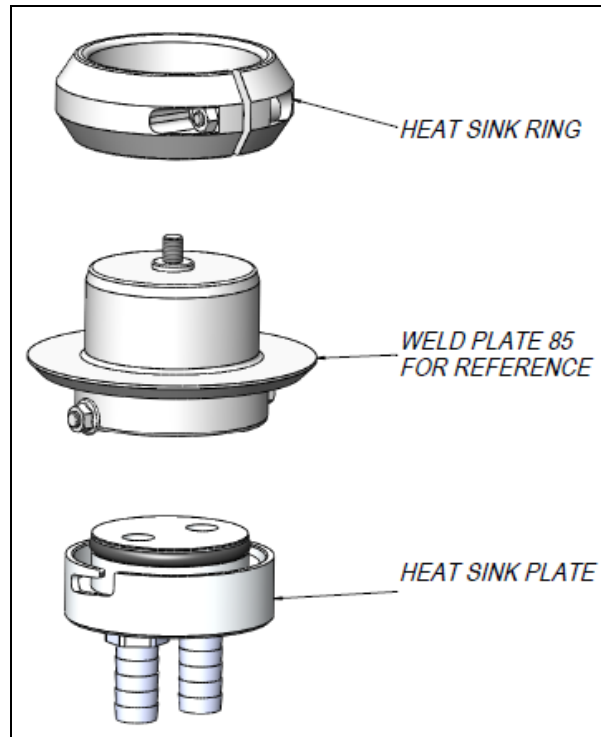


**STERIMIXER® HEAT SINK OPERATION GUIDE**
**Heat Sink Designs:**

**STERIDOSE**

**Overview:**

The purpose of the heat sink tools is to aid in the dissipation of heat generated when welding the weld plate into the bottom dish of a vessel. The heat generated during this process causes distortion of the weld plate which may affect fit and performance of Sterimixer® impeller and/or drive unit. By use of the heat sink tools, the distortion and potential fit issues can be minimized.

Each heat sink design consists of a heat sink plate, heat sink ring, o-ring(s), fittings and hardware. See figure 6 below:



**Figure 6: Heat Sink 85 Exploded View**

**Heat Sink Ring:**

The heat sink ring is installed on top of the weld plate inside of the vessel. In addition to providing surface area to transfer heat away from the weld plate, it provides a rigid boundary to prevent the weld plate from distorting outward.

The heat sink ring slides directly over the weld plate and rests at the bottom of the weld plate. A socket head cap screw and nut are used to tighten the ring together to clamp on the outer diameter of the weld plate. To un-install, loosen the screw and slide the ring off.

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**Heat Sink Plate:**

The heat sink plate installs on the bottom side of the weld plate on the portion outside of the vessel (non-product contact side). For heat sink plates 60 and 85, the bayonet coupling is used to attach the heat sink plate to the weld plate. For all other sizes, a bolted connection is used.

There are two fittings on each of the heat sink plates. Note that they are BSPT threads. A hose/tube connected with a hose clamp may be used to connect one of the two fittings to the water input. The other fitting will then become the output for the water. The constant flushing of the fluid through the heat sink plates is designed to aid in transferring the heat generated during the welding away from the weld plate.

**Note:**

The welding guide in the Sterimixer® Operation Manual should be followed in addition to the use of the heat sink tools. Certified welders should be used who have fully read and understood both this instruction and the instruction given in the Sterimixer® Operation Manual.

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