

VERTICAL STEAM BOILER NO. 3B

Vertical Steam Boiler No. 3B was designed after my Steam Boat Book and therefore is not included in the book. It is similar to the African Queen boiler, but larger in diameter and a little bit shorter. The pressure vessel is made from 1 ½ inch brass sink drain pipe which is a little easier to find than the 1 ¼ inch sink drain pipe used on the African Queen boiler. Vertical Steam Boiler No. 3B uses an alcohol lamp as a heat source and with a larger diameter and larger fire flue and stack will produce steam at a higher rate than the African Queen boiler. It will run the three cylinder engine, the two cylinder double acting engine, and the V-four engine very nicely. It could also be used for the three smaller engines if a smaller wick tube is used.

Use the African Queen boiler building instructions as a general guide for building Vertical Steam Boiler No. 3B. A 1.39 inch diameter forming die is needed for making the top and bottom pressure vessel ends.

