



Instructions for connecting the Tunnel Kuni Booster to a storage tank

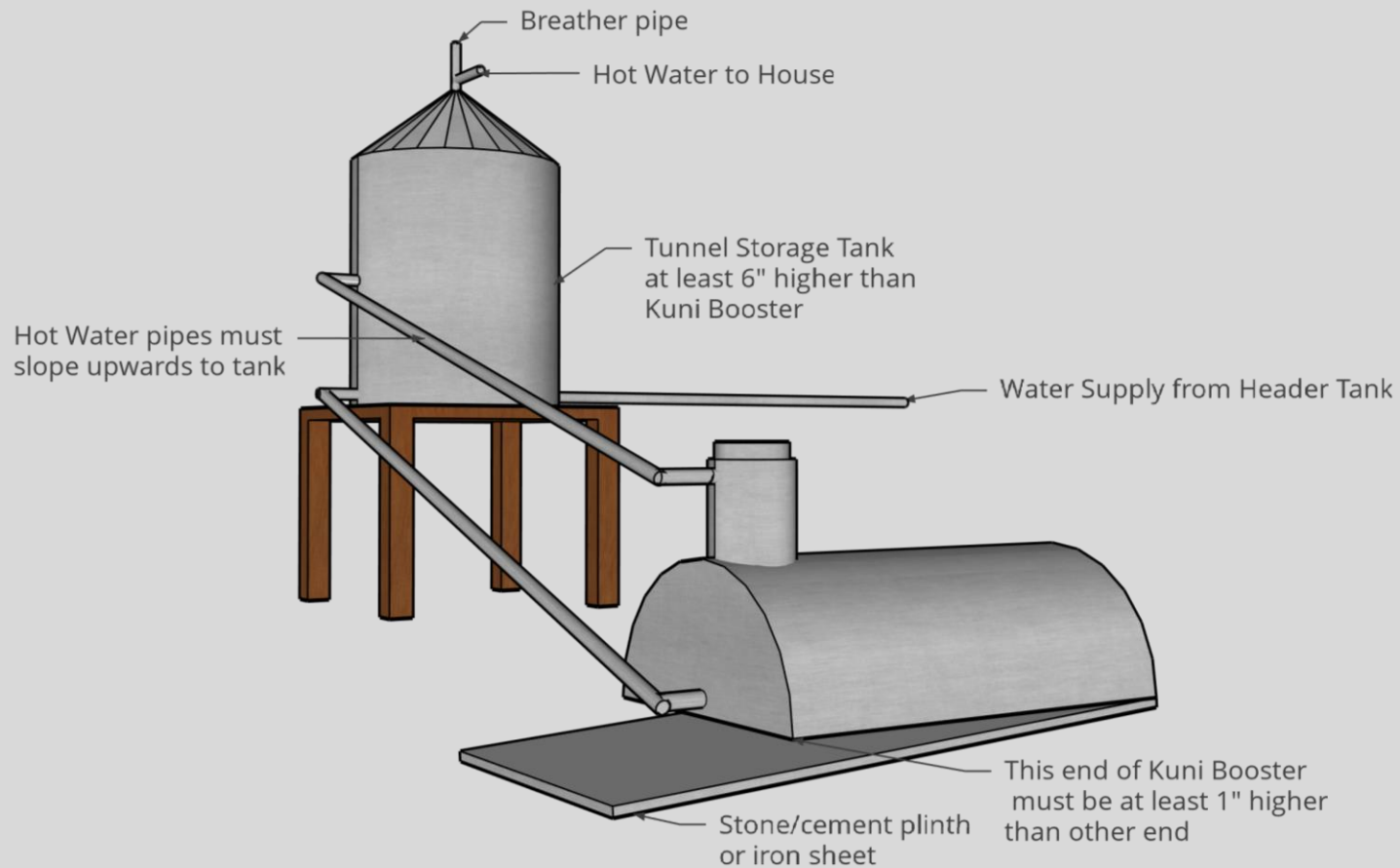
1. The storage tank, whether it be a Tunnel Insulated Tank, an old oil drum or immersion heater cylinder, should **ALWAYS** be at least 6" higher than the Kuni Booster.
2. The chimney end of the Kuni Booster should **ALWAYS** be 1" higher than the open end, so that air will not be trapped inside it. See diagram.
3. The Kuni Booster should be placed on a stone or cement plinth, or an old iron sheet, and **NOT** directly on the ground.
4. Connect the Kuni Booster to the storage facility using the right size galvanized piping. For the No.1 and No.2 Kuni Booster this should be ¾", and 1" for the No 3. For the larger models use the same size of pipe as the sockets at A and B on the Kuni Booster. These pipes **MUST ALWAYS** be on a slope upwards (no right angles) to the drum so that airlocks do not prevent the circulation of the hot water. **DO NOT** put Gate Valves or Non-Return Valves in these pipes. Union joints placed near the Kuni Booster will make removal easier when repairs are necessary.
5. For best connections see diagram; Option 1 - Parallel Connection may be the most convenient as pipes do not need to be bent or kinked in any way. This connection can be used with either a Tunnel Storage Tank, or any other storage facility you may use.
6. Tunnel Kuni Boosters are designed to withstand pressures of up to 40ft head; if your pressure is 40ft head or more, install a smaller header tank to reduce the pressure. **DO NOT** use pressure relief valves; these often do not work and will cause problems. Vice versa if you do not have enough pressure, install a header tank up to and **NO MORE** that 40ft higher than the Kuni Booster.
7. Put a breather pipe at the highest point (it should stand higher than the Header Tank) using the same sized pipe as used for joining the Kuni Booster to the drum. See Diagram below.
8. If you decide to insulate the hot pipes from A to the drum, PVC pipe of a larger diameter slipped over the galvanized pipe may be the easiest option.
9. **DO NOT** overload the Kuni Booster with firewood or combustible material; this is entirely unnecessary as it only requires a flame to work properly. Overloading could lead to problems, which Tunnel Energy Ltd will **NOT** be liable for.
10. Check that the "hat" on top of the chimney is not restricting the flow of air. Prize it up if necessary.
11. Return the Kuni Booster to Tunnel Energy Ltd for reconditioning if leaks occur.
12. Customers use this device entirely at their own risk. Tunnel Energy Ltd accepts no responsibility for injury or damage, however caused, through using this equipment.
13. **CUSTOMERS MUST FOLLOW INSTRUCTIONS WITH CARE. IF YOU DO NOT, THE SYSTEM MAY BE LESS EFFECTIVE. TUNNEL ENERGY LTD WILL NOT BE LIABLE FOR SYSTEMS THAT FAIL DUE TO IMPROPER INSTALLATION.**

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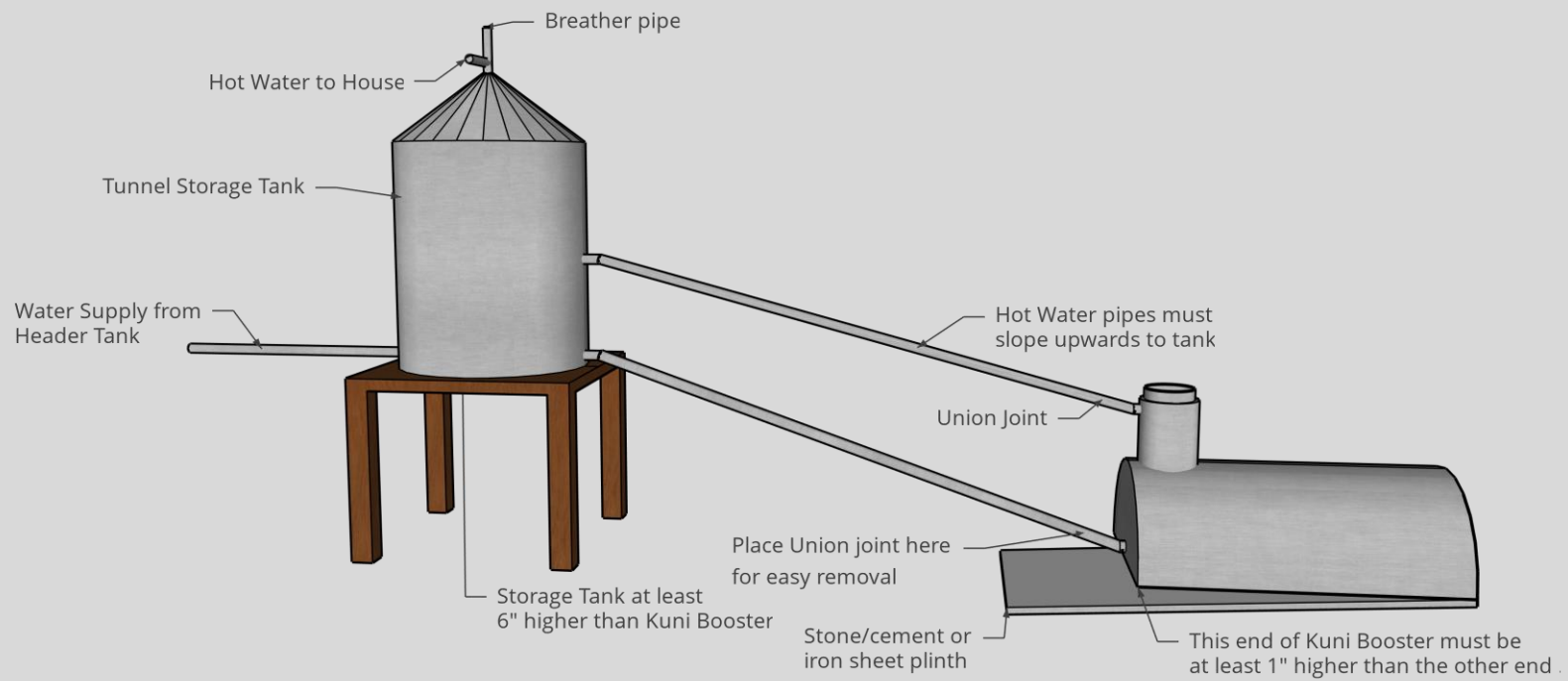
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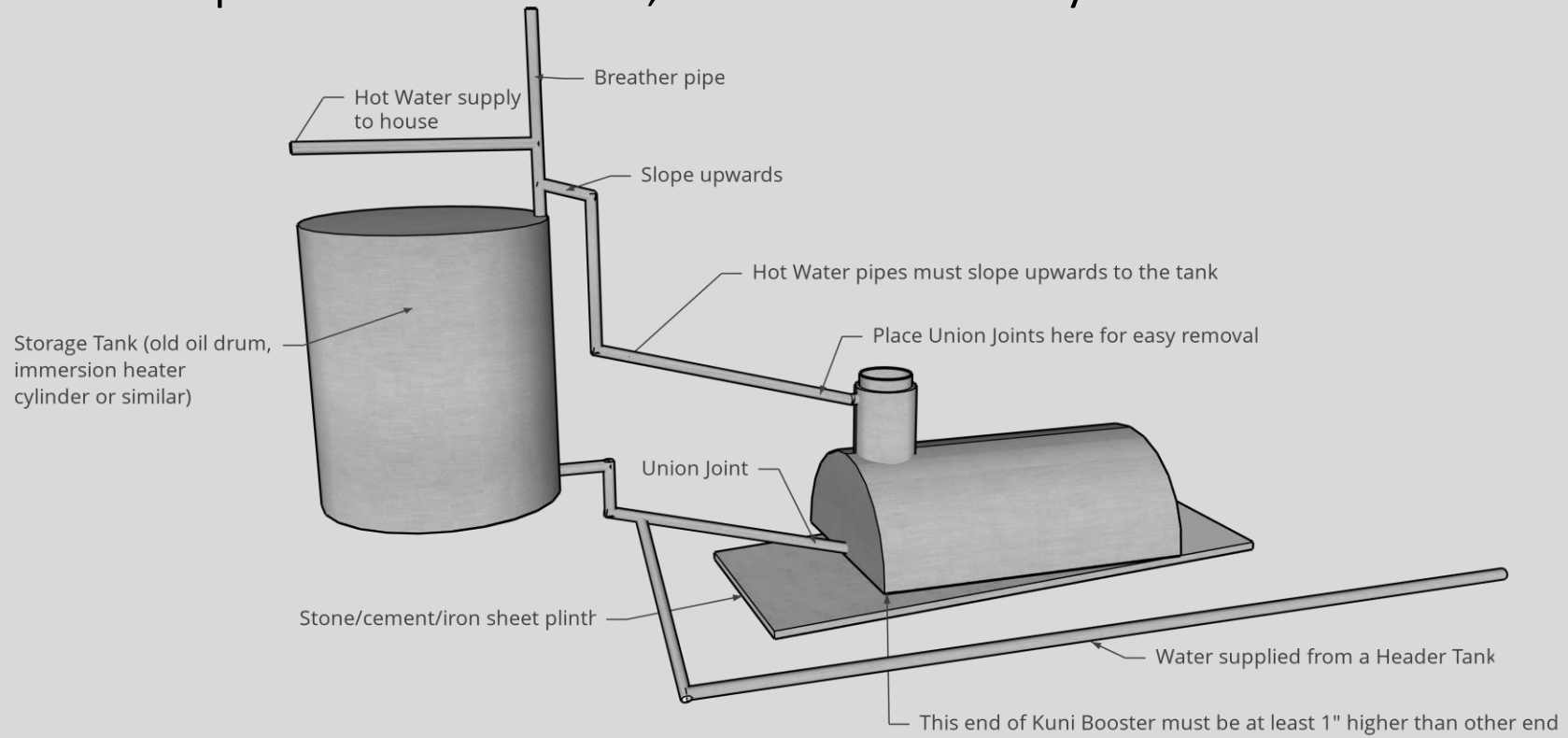
Option 1 – Parallel Connection to Tunnel Storage Tank



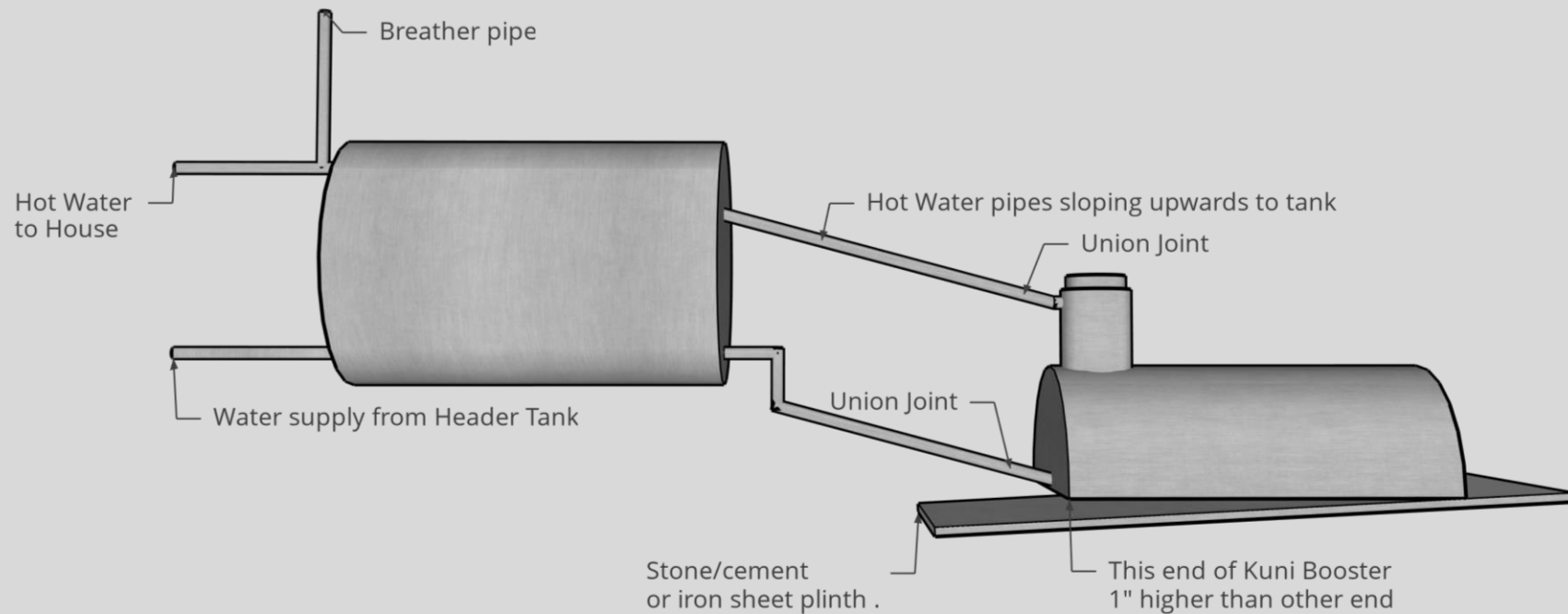
Option 2 – Tunnel Storage Tank



Option 3 - Old oil drum, immersion heater cylinder or similar



Option 4 - Old oil drum, immersion heater cylinder or similar



Option 5 - Old oil drum, immersion heater cylinder or similar

