

11/27/05

Nicks Babington Heater Notes

Notes:

- ⇒ Vogelzang Barrel Stove Kit from Northern Tool
 - Includes door kit, feet kit, flange with damper for chimney tube.
 - Purchased additional flange for side
- ⇒ Ball-Stainless doorknob
- ⇒ Burner tube – 6” dia heavy wall pipe 18” long
- ⇒ Damper Door on air input end.
 - 2 half circles
 - Bottom welded in place, notch in center for air supply tube to sit in. Clamp welded on lower half to clamp tube in place and allow for adjustment of ball depth into the tube. Allows for precise adjustment of ball under dripper tube.
 - Top half has washer welded on corner to act as hinge point for upper half to open adjusting air in put and allowing for ball

removal.

- ⇒ Inside ball support-1/2 circle with notch to fit between fittings on tube. Has tab welded on bottom to keep it standing and allow for sliding in and out as needed to get ball under dripper tube.
- ⇒ Reservoir is old stainless steel Surge milker bucket with hole drilled for spigot
- ⇒ Stove body is 55 gal steel drum

Comments:

- ⇒ Burner chamber (6" dia. Pipe) is sloped 1 inch lower on input end
- ⇒ Oil drainback will be collected in steel pail for now-planning some kind of pump system later.
- ⇒ T-in copper supply line gives ability to see when oil flow is that far.
- ⇒ Open pipe on dripper end to be capped.

Questions:

1. Do you see anything that probably wont work??

2. What is the optimal distance for the dripper tube above the ball – how far should the oil fall to the ball?
3. What would be the optimal distance for the ball to be from the output end of the burner chamber?
4. How important is air control behind the ball-air input end? Should I be closing my door all the way?
5. I've read of air inlet holes in the area of the ball rather than on the input end. Where do I locate those holes? Ahead of the ball? Behind the ball? Right around the ball?
6. Do you think this will be enough pre-heating?
7. How do you start your babingtons? Should I use thinner oil/fuel oil to get this started? Do you make a hole in the tube to shoot the flame of a propane torch to ignite the atomized mist?
8. How do I drill the recommended .011-.015 air hole in the ball? The smallest drill I can find around here is 1/16" inch when I actually need about a 1/64" hole?