BAROMETRIC DAMPER INSTALLATION

The barometric damper should be installed in oil and solid fuel heaters. The purpose is to maintain a strong draft without causing too much air to the fuel mixture. When the damper is adjusted the draft is altered by allowing air to be pulled into the chimney by the air inlet on the damper and not pulled into the primary mixing holes in the burner.

Install the barometric tee pipe with the front flap facing fore and aft.

In order for the barometric to work efficiently it must be installed between 12" or 24" from the stove/heater exhaust collar. If using pipe guard turn the barometric tee to the back as it does not have to be seen to work.

To adjust the flap on the barometric back off the jam nut and turn the counterweight so the flap is standing closed. The valve must be set to flow 1 teaspoon per minute of fuel on the lowest setting. Once the heater/stove has been burning for some time and the room temperature is starting to rise is a good time to do the adjustment.

Adjust the counterweight so the flap starts to open (aprox 6mm or ¼"). This will allow air to enter the barometric tee and reduce the air entering the burner. This will cause the flame to burn above the top burner ring. If the flame is still burning below the ring adjust the flap open another 3mm or 1/8". At this time if there is flame burning below the top burner ring and the barometric flap is open aprox 9mm or 3/8" do not adjust the flap open any further and re-adjust the valve fuel flow rate until the flame is above the ring.

This adjustment need only done once after the install and the jam nut can be re-tightened. The draft above the top of the fire will be aprox -.05 inches of water column, should you have a draft meter, however adjusting the damper as above should get you close enough.