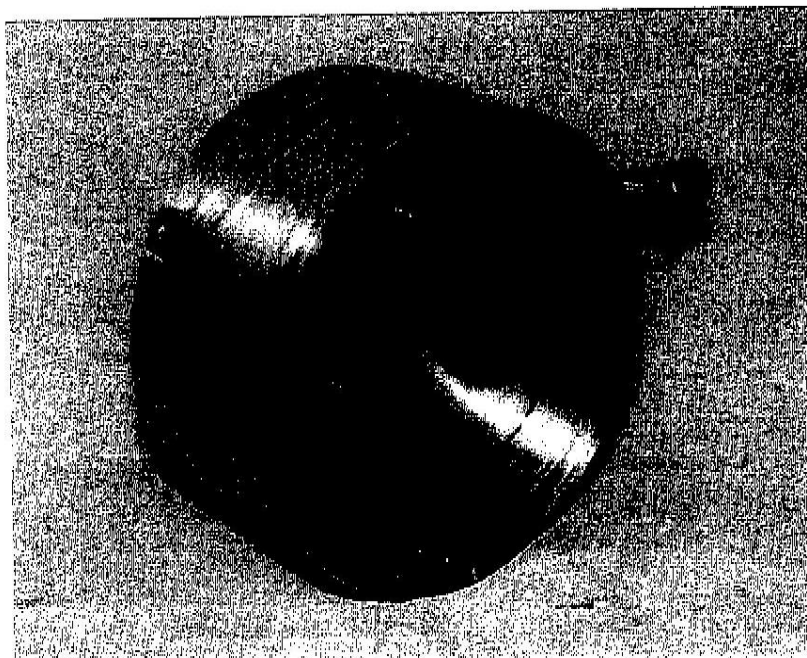


EFFIKAL

INTERNATIONAL INC.

INSTALLATION INSTRUCTIONS FOR ADJUSTABLE BAROMETRIC DRAFT DAMPER



This draft control damper has been carefully manufactured to provide accurate draft control for your appliance when properly installed. While every effort has been made to include accurate and complete installation information, the technician that installs and calibrates this draft control damper will play an important role in its satisfactory integration into heating system. Should there be any questions regarding this installation, please do not hesitate to contact Effikal International for assistance. The manual supplied by the OEM appliance manufacturer must be consulted to determine the proper draft setting during calibration. "The installation of the equipment shall be in accordance with the regulation of authorities having jurisdiction and CSA standard B139"

DETERMINING INSTALLATION LOCATION - Referring to Fig. 1, determine the appropriate location to install the draft control damper (hereafter referred to as "damper"). The damper should be located as close as possible to the appliance.

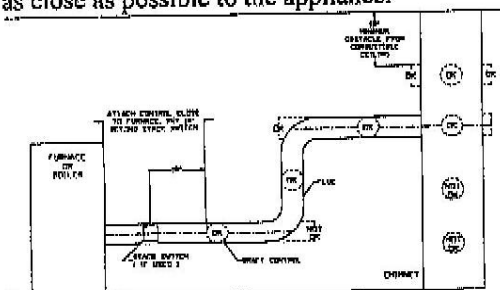


FIG. 1- Locating The Draft Damper

WARNING: The damper **MUST** be installed at least 18" from a stack switch, combustible ceiling, or wall. **DO NOT** install the damper in a room separated from the appliance.

FLUE PIPE PREPARATION - It will be necessary to install a "T" pipe section (not included) into the flue pipe as shown in Fig. 2. Properly secure the "T" pipe section to the flue pipe using appropriate attachment hardware (not included). **NOTE** - The "T" pipe section should be installed onto the flue pipe so as to provide an opening for the damper that is both plumb and level.



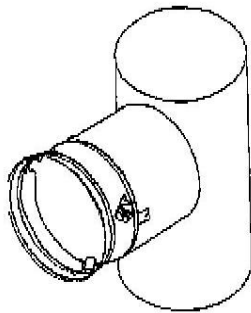


FIG. 2 - Damper Installation with Tee

DAMPER INSTALLATION - Using a pair of pliers, carefully lift the two attachment tabs outward slightly as shown in Fig. 3 to provide clearance for the collar pipe opening flange to fit under each tab.

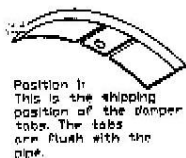


FIG. 3 - Damper Tabs

Insert the damper into the pipe opening, taking care to assure that the front face is plumb and the two blade pivot points are level regardless of the orientation of the flue pipe.

IMPORTANT : A level measuring device must be used to insure that the damper is installed both plumb and level for the damper calibration to be accurate. Secure the damper to the pipe opening using two 1/2" long sheet metal screws (included) installed through the damper attachment tabs. **NEVER** use longer screws for attachment because they will interfere with the damper blade during operation. This damper has been equipped with a pipe tab. This pipe tab prevents the blade from opening into the boiler room. The tab has been covered with a resilient material to ensure quiet operation. Do not remove the bumper.

DAMPER CALIBRATION - This side calibration weight should be adjusted to maintain the manufacturer's specified draft. **Note the rear weight is not adjustable.** Be sure to confirm that the arm of the blade is parallel to the outside of the pipe. While confirming this please note that there should also be approximately a 1/4" gap between the blade arm and the outside of the pipe. Refer to the installation manual supplied with your appliance for specific combustion setting and chamber draft data. A manometer should be used to adjust the damper to the appliance specifications. To adjust the damper, first determine whether the damper is to be adjusted in a (H) horizontal or (V) vertical installation. Attach the weight, to the outside, in the correct slot. See Figure 4. Now move the weight along the correct slot until the desired draft value is obtained. Moving the weight forward toward the 2 position will decrease the combustion chamber draft, moving the weight back toward the 8 position will increase the draft. See Figure 4. Move the weight along the correct slot until the desired draft value is obtained. This procedure may take several trials before the correct weight position has been determined that will provide the desired draft value.

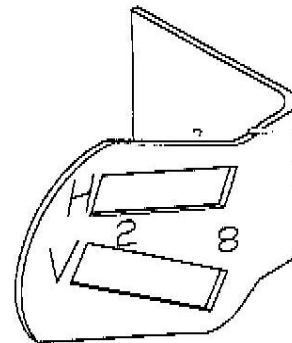


FIG. 4 - Weight Adjustment Arm

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