

DRAFT GAUGE

Instruction 0013-9009 Rev. 5 - May 2010

WARRANTY

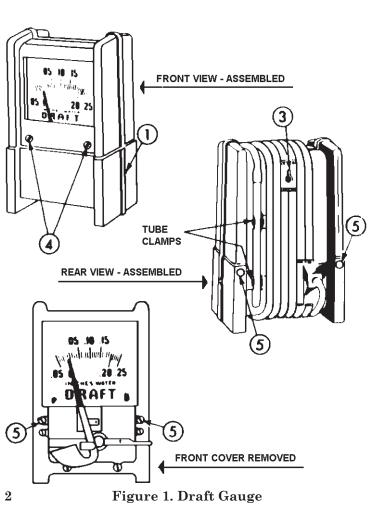
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Mounting the Instrument

For portable use stand the gauge on a reasonably level surface convenient to the location for checking draft. Gauge may also be hung in an upright position using E(Slotted Recess) to receive a nail or screw head. For permanent installation remove I (Screws) and front cover, fasten to panel with two number 8 screws thru I(Mounting Holes), replace front cover and I (Screws). Never locate gauge where temperature exceeds 110° F.

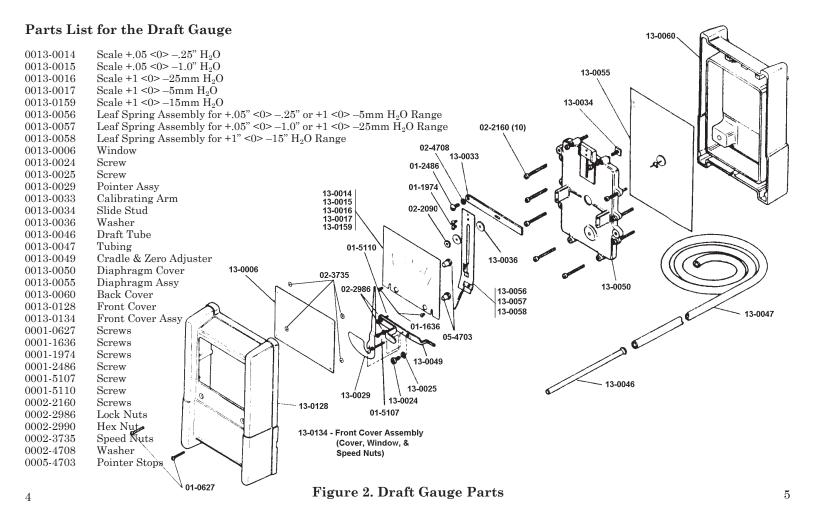
Connections

For portable use connect the gauge to a furnace with the 9 foot length of rubber tubing and metal draft tube provided. For permanent installation, make connection from panel to draft measuring point with copper tubing or pipe, solid tubing (no fittings) is preferred. At the end of the tubing provide a small tee with a short piece of rubber tubing as shown in Figure 3. Connecting lines over 50 feet in length is not recommended. Use as few bends as possible, and keep the connecting line to a minimum length. The following tubing sizes are recommended:

Up to 10 foot length
Up to 25 foot length
Up to 50 foot length
Up to 50 foot length
1/4 inch ID tubing
3/8 inch ID tubing
1/2 inch ID tubing

Zero Adjusting

When checking for zero, hold the draft tube near gauge or if permanently connected, break connecting line at panel. Zero is adjusted by moving É(Adjusting Tab) until the pointer is in line with the scales zero. For portable use, check zero each time the gauge is set up for use. For permanent installations (always disconnect the hose from the gauge before making the zero check) check zero at one or two week intervals.



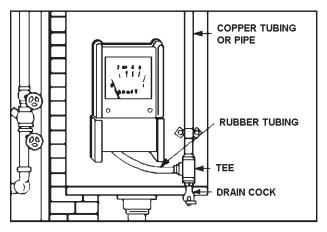
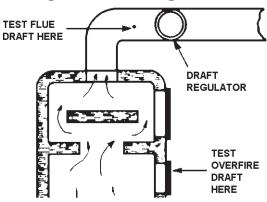


Figure 3. Mounting Draft Gauge

Locations for Checking Draft

Furnace manufacturer may require measurement of draft (a) in flue between regulator and furnace or (b) overfire between combustion space and heat exchanger (Figure 4). Locate sampling hole in flue 6" or more from draft regulator or damper toward furnace. Use awl with ¼ shank for forming draft hole in light sheet metal. Make overfire measurement through blot hole in door or through air louvers. If necessary, drill ¼ hole. In case of over sized hole or masonry setting, draft tube (replace with 1/8' pipe if necessary) should be inserted several inches beyond inside surface of flue pipe or furnace wall. For detailed instructions on check locations, see manufacturer's service or installation manual.

Figure 4. Draft Gauge Locations



Measuring Draft

Allow furnace to operate for several minutes, unwrap hose, place gauge on reasonably level surface, check zero, insert metal draft tube through draft hole. After about 30 seconds read draft from gauge scale.

Correct Draft

Recommendations for draft required for good performance must be obtained from the heating equipment manufacturer's installation or service manual. Some common causes of poor draft are shown in "Common Chimney Troubles".

Maintenance

Do not oil this gauge. Protect the gauge from shock, vibration and exposure to excessively high temperatures.

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