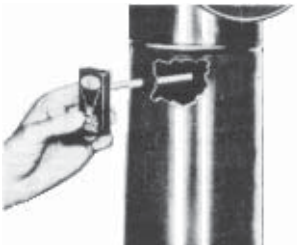


BACHARACH®

INSTRUCTION 0013-9008
DRAFTRITE
Rev.4 - May 2010

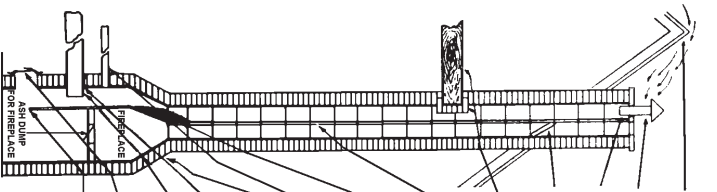


WARRANTY

Bacharach, Inc. warrants to Buyer that at the time of delivery this Product will be free from defects in material and manufacture and will conform substantially to Bacharach, Inc.'s applicable specifications. Bacharach's liability and Buyer's remedy under this warranty are limited to the repair or replacement, at Bacharach's option, of this Product or parts thereof returned to Seller at the factory of manufacture and shown to Bacharach, Inc.'s reasonable satisfaction to have been defective; provided that written notice of the defect shall have been given by Buyer to Bacharach within one (1) year after the date of delivery of this Product by Bacharach, Inc. For full details concerning this warranty, contact Bacharach, Inc.

COMMON CHIMNEY TROUBLES

TROUBLE	REMEDY
Top of Chimney lower than surrounding objects.	Extend chimney above all objects within 30 feet.
Chimney Cap or Ventilator.	Remove.
Coping restricts opening.	Make opening as large as inside of chimney.
Piece of broken Tile wedged in Chimney.	Break tile with a rod or weight on a string or wire.
Joist protruding into Chimney.	Change support for joist so that Chimney will be clear.
Leakage between loose jointed tiles.	Rebuild Chimney with a course of brick between flue tiles.
Debris accumulating in offset.	Break out with rod or weight, it may be necessary to open Chimney.
Heater or ventilator connection.	Remove.
Offset.	Change to straight or to long offset.
Loosely fitted Smoke Pipe.	Close leaks with cement.
Smoke Pipe extends into Chimney.	Make end flush with inside of Chimney.
Loosely fitted cleanout door.	Close leaks with cement.
Opening between flues.	Close openings permanently.
Chimney too small.	Rebuild.
Chimney too large.	Rebuild.
Chimney too short.	Extend.

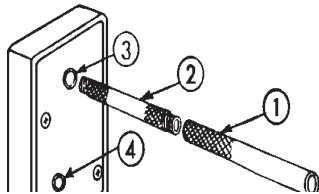


The diagram illustrates a cross-section of a chimney system. At the bottom, it shows the connection to a fireplace, labeled 'ASH DUMP FOR FIREPLACE' and 'FIREPLACE'. The chimney pipe is shown with various joints and components. Labels point to specific areas: 'Loosely fitted Smoke Pipe', 'Smoke Pipe extends into Chimney', 'Loosely fitted cleanout door', 'Opening between flues', 'Chimney too small', 'Chimney too large', 'Chimney too short', 'Heater or ventilator connection', 'Offset', 'Leakage between loose jointed tiles', 'Debris accumulating in offset', 'Joist protruding into Chimney', 'Piece of broken Tile wedged in Chimney', 'Coping restricts opening', 'Chimney Cap or Ventilator', and 'Top of Chimney lower than surrounding objects'.



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Assembly

Join Draft Tube parts together and screw them into back of Drafrite. When required, extend Draft Tube with length of $\frac{1}{4}$ " copper tubing. Total length of extended tube must not exceed 6 inches.

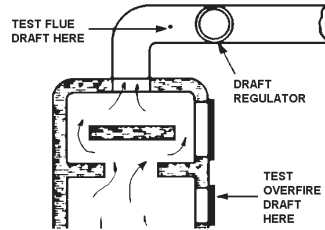
Location For Checking Draft

Consulting Equipment Manufacturer may require draft measurement (a) in flue

between furnace and draft regulator; (b) overfire between combustion space and heat exchanger. Locate draft hole in flue at least 6" from draft regulator or damper toward furnace. Use awl with $\frac{1}{4}$ " shank to form hole in flue or light sheet metal. Overfire measurement may be made through bolt hole or air louver in door or through observation port, if necessary, drill a $\frac{1}{4}$ " hole. In case of oversize opening, Draft Tube should protrude several inches minimum beyond inside wall, if necessary extend Draft Tube (see above).

Draft Measurement

Operate burner for several minutes and while continuing to operate insert about half of Draft Tube into draft hole. Cover Zero Check hole with finger, level Drafrite until (a) Draft Tube is horizontal and (b) pointer is in line with zero scale mark, uncover Zero Check hole without disturbing position of Drafrite. Pointer instantly shows draft or pressure reading. Use of the Drafrite is illustrated on front page.



Maintenance

Protect instrument from dirt, oil, and lint. Do not oil. Keep gauge in case when not in use, and keep case free of lint or dirt. Clean Draft Tube occasionally with pipe cleaner. Protect gauge against excessive shock. Do not use as continuously indicating instrument. Drafrite is designed for spot checking draft where extreme portability is important.

Correct Draft

All combustion equipment requires correct draft for best performance. Specific draft recommendation should be obtained from manufacturer.

IMPORTANT NOTE

Drafrite is furnished in two ranges for measurement of updraft/downdraft of fuel burning equipment as follows:

1. .10 inch water downdraft to .14 inch water updraft.
2. .05 inch water downdraft to .25 inch water updraft.

Neither of the above models can be used to locate Neutral Pressure Point as required in "Requirements for Installation and Adjustment of Domestic Gas Conversion Burners" (ANSI-Z21.8-1994).