WARRANTY

1. 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’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’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.

2. Bacharach warrants to Buyer that it will convey good title to this product. Bacharach’s liability and Buyer’s remedy under this warranty of title are limited to the removal of any title defects or, at the election of Bacharach, to the replacement of this Product or parts thereof that are defective in title.

3. The warranty set forth in paragraph 1 does not apply to parts the Operating Instructions designate as having a limited shelf-life or as being expended in normal use.

4. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE GIVEN AND ACCEPTED IN LIEU OF (i) ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND (ii) ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY IN CONTRACT OR TORT, WHETHER OR NOT ARISING FROM BACHARACH’S NEGLIGENCE, ACTUAL OR IMPLIED. The remedies of the Buyer shall be limited to those provided herein to the exclusion of any and all other remedies including, without limitation incidental or consequential damages. No agreement varying or extending the foregoing warranties, remedies or this limitation will be binding upon Bacharach unless in writing, signed by a duly authorized officer of Bacharach.

NOTE: The Smoke Scale, Filter Paper, Valve Disc, and Pump Lubricant are expendable items and are excluded from the terms of this warranty.

Parts List for TRUE-SPOT® Smoke Tester (0021-7012)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>NUMBER REQUIRED</th>
<th>CODE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clip . . . . . . . .</td>
<td>1</td>
<td>0021-0001</td>
</tr>
<tr>
<td>Sampling Tube . . .</td>
<td>1</td>
<td>0021-0072</td>
</tr>
<tr>
<td>Spring . . . . . . . .</td>
<td>1</td>
<td>0021-0013</td>
</tr>
<tr>
<td>Rubber Hose . . . . .</td>
<td>1</td>
<td>0021-0071</td>
</tr>
<tr>
<td>Smoke Scale . . . . . (not shown)</td>
<td>0021-0018</td>
<td></td>
</tr>
<tr>
<td>Filter Paper . . . . . (not shown)</td>
<td>0021-0019</td>
<td></td>
</tr>
<tr>
<td>Check Valve Assembly (Includes 0021-0037) . . . .</td>
<td>1</td>
<td>0021-0075</td>
</tr>
<tr>
<td>(Valve Disc only) . . . . .</td>
<td>1</td>
<td>0021-0037</td>
</tr>
<tr>
<td>Cylinder . . . . . . . .</td>
<td>1</td>
<td>0021-1013</td>
</tr>
<tr>
<td>Trap . . . . . . . . .</td>
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<td>0021-0074</td>
</tr>
<tr>
<td>Clamp Screw . . . . .</td>
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<td>0021-1011</td>
</tr>
<tr>
<td>Cylinder Cap . . . . .</td>
<td>1</td>
<td>0021-0032</td>
</tr>
<tr>
<td>Handle . . . . . . . .</td>
<td>1</td>
<td>0021-0033</td>
</tr>
<tr>
<td>Rod . . . . . . . . .</td>
<td>1</td>
<td>0021-1012</td>
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<tr>
<td>Cup . . . . . . . . .</td>
<td>1</td>
<td>0021-0035</td>
</tr>
<tr>
<td>Pump Lubricant . (1/4 Fl. Oz.)</td>
<td>1</td>
<td>0021-0040</td>
</tr>
<tr>
<td>Wrench . . . . . . . . (not shown)</td>
<td>0021-0078</td>
<td></td>
</tr>
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</table>

INSTRUCTIONS and
PARTS LIST
for
TRUE-SPOT®
Smoke Tester
(0021-7012)

Bacharach, Inc.
621 Hunt Valley Circle
New Kensington, PA 15068
Phone: 724-334-5000
Fax: 724-334-5001
Web: www.mybacharach.com

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OPERATING INSTRUCTIONS, for Testing Oil Burners

(1) Tear strip from perforated Filter Paper sheet (in SMOKE SCALE envelope); loosen Clamp Screw; insert end of paper strip in slot (Fig. 1) and tighten Clamp Screw; release Sampling Tube from rubber barrel Clip.

(2) Insert Sampling Tube at least 2 1/2 inches into flue through 9/32 inch diameter hole located between furnace/boiler flue outlet and draft regulator.

(3) Pull TRUE-SPOT Handle through TEN (10) full pump strokes (Fig. 2).

(4) Remove Sampling Tube from flue; loosen Clamp Screw and remove Filter Paper.

MAINTENANCE, cont’d.

(5) Match color of smoke spot on Filter Paper strip to the closest spot on 10 spot OIL BURNER SMOKE SCALE (RR-776). In comparing color of smoke spot to chart, slide Filter Paper strip between back of SMOKE SCALE and white plastic slide, viewing smoke spot on Filter Paper through window in center of color spots on SMOKE SCALE with smoke spot backed by white plastic slide (Fig. 3).

(6) Take additional samples required by clamping Filter Paper strip in slot so previous spot is visible outside the slot.

MAINTENANCE INSTRUCTIONS

General

1. Wetting of Filter Paper

(a) TRUE-SPOT (0021-7012) virtually eliminates Filter Paper wetting by trapping condensed moisture before it can contact Filter Paper. A combination trap and check valve recessed in the pump’s cylinder head retards condensed moisture on the Cylinder from reaching Filter Paper on exhaust strokes. The Trap threaded to

in rubber piece until retaining shoulder is engaged. MAKE CERTAIN CUP OR HANDLE IS ORIENTED ON ROD CORRECTLY AND CYLINDER CAP IS IN PLACE BEFORE FINAL ASSEMBLY.

5. Cleaning TRUE-SPOT

TRUE-SPOT should always receive a complete cleaning prior to renewal of lubrication (see Section 6), but individual parts should be cleaned as required.

To thoroughly clean TRUE-SPOT, instrument should be completely torn down. Do not remove Handle or Cup except under conditions outlined in Section 4. An approved degreasing safety solvent may be used to clean old lubricant from Cup and Cylinder bore.

WARNING: Always take precautions and follow manufacturer’s directions when using solvent. To clean Cylinder, saturate a swab with solvent and work into bore until free of encrusted lubricant. Remove Valve Disc (0021-0037) from Check Condensed gas which has formed a deposit Tendency for TRUE-SPOT to “pull hard” at Bacharach Pump Lubricant (0021-0040) Best means of applying is to spread enough lubricant around the outside of the Cup so that when Cup is wrapped with one layer of muslin cloth, lubricant is squeezed through fabric weave. Any thin, lint-free fabric including muslin is satisfactory.

Any thin, lint-free fabric including muslin is satisfactory. Do not apply too much lubricant, or seepage will result when TRUE-SPOT is stored.

4. Parts Replacement

The complete TRUE-SPOT Assembly can be disassembled for cleaning or parts replacement with the exceptions of the Handle (0021-0035) and Cup (0021-0037). Removal of either of these two parts from the Rod for any reason except replacement is not advised. Damage to the rubber parts will occur as a result of forced removal. If Handle or Cup must be replaced, cut the rubber part in need of replacement away from Rod. Install replacement by pressing tapered end of rod through hole

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