



BTI 3 Refilling Instructions



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Made in the United States of America





READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE USE

These Instructions must be read and understood by user before operating this product or using its accessories, in order to ensure proper and safe use of this product.

Read and understand all applicable federal, state, and local environmental health and safety laws and regulations, including OSHA. Ensure complete compliance with all applicable laws and regulations before and during use of this product.

Do not substitute, modify, or omit parts or components. Use exact manufactured replacement parts in configurations specified by the original manufacturer.

Contact Chemteq's Service Department for any questions regarding these instructions or to arrange for a Returned Material Authorization (RMA).

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Table 1: Components of the BTI 3 Refill Kit

Item No.	Description	No. of Items	Part Number
1	Colorimetric indicator	1	See table 2 for specific
2	Cotter Pin ($\frac{1}{16}$ " x $\frac{1}{2}$ ")	3	436-1300
3	Porous Plug	2	436-1400
4	Sorption media	1	See table 4 for specific sorbent

Table 2: BTI 3 Refill Kits

Item No.	BTI 2 Refill Kit	No. of Items	Part Number
1	Acid Gases and Vapors	1	431-5000
2	Allyl Bromide	1	451-5000
3	Ammonia Vapor	1	433-5000
4	Ammonia & Hydrogen Sulfide	1	432-5000
5	Basic Vapors	1	435-5000
6	Chlorine Dioxide	1	448-5000
7	Formaldehyde Vapor	1	437-5000
8	Glutaraldehyde Vapor	1	452-5000
9	Hydrazine Vapor	1	439-5000
10	Hydrogen Sulfide Gas	1	436-5000
11	Hydrogen Sulfide Gas (Waterproof)	1	445-5000
12	Mercaptans	1	453-5000
13	Mercury	1	442-5000
14	Nitrogen Dioxide	1	449-5000

Table 2: BTI 3 Colorimetric Indicator Assemblies

Item No.	Colorimetric indicator Assembly	No. of Items	Part Number
1	Acid Gases and Vapors	1	431-1600
2	Allyl Bromide	1	451-1600
3	Ammonia Vapor	1	433-1600
4	Ammonia & Hydrogen Sulfide	1	432-1600
5	Basic Vapors	1	435-1600
6	Chlorine Dioxide	1	448-1600



Table 2 Continue: BTI 3 Colorimetric Indicator Assemblies

Item No.	Colorimetric indicator Assembly	No. of Items	Part Number
7	Formaldehyde Vapor	1	437-1600
8	Glutaraldehyde Vapor	1	452-1600
9	Hydrazine Vapor	1	439-1600
10	Hydrogen Sulfide Gas	1	436-1600
11	Hydrogen Sulfide Gas (Waterproof)	1	445-1600
12	Mercaptans	1	453-1600
13	Mercury	1	442-1600
14	Nitrogen Dioxide	1	449-1600

Table 4: Sorption Media Refill

Item No.	Description	No. of Items	Part Number
1	Sorption media for Acids	1	431-5200
2	Sorption media for Allyl Bromide	1	451-5200
3	Sorption media for Ammonia	1	433-5200
4	Sorption media for Ammonia & Hydrogen Sulfide	1	432-5200
5	Sorption media for Basic Vapors	1	435-5200
6	Sorption media for Chlorine Dioxide	1	448-5200
7	Sorption media for Formaldehyde	1	437-5200
8	Sorption media for Glutaraldehyde	1	452-5200
9	Sorption media for Hydrazine Vapor	1	439-5200
10	Sorption media for Hydrogen Sulfide	1	436-5200
11	Sorption media for Hydrogen Sulfide WP	1	445-5200
12	Sorption media for Mercaptans	1	453-5200
13	Sorption media for Mercury	1	442-5200
14	Sorption media for Nitrogen Dioxide	1	449-5200

Table 5: Required Tools

Item No.	Tool	No. of Items	Part Number
1	<p>Miniature-Hook Pick</p> 	1	431-9100
2	<p>Small Pair of pliers</p> 	1	NA

1. Instructions

1.1. Remove bottom porous plug using miniature-hook pick (Figures 1 & 2)

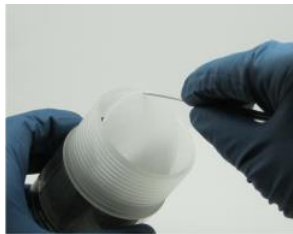


Figure 1



Figure 2

1.2. Remove indicator retainer (Figure 3)

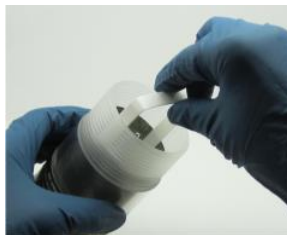


Figure 3

1.3. Remove exhausted colorimetric indicator (Figures 4 & 5)

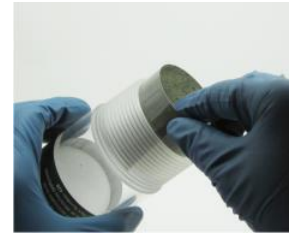


Figure 4

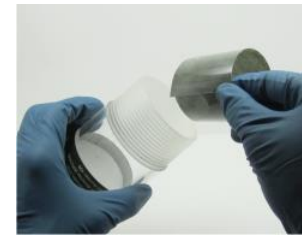


Figure 5

1.4. Remove cotter pins using small pair of pliers and miniature-hook pick (Figure 6 & 7)



Figure 6

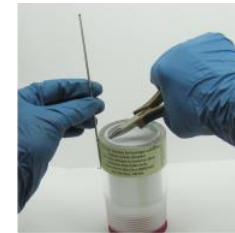


Figure 7

1.5. Carefully remove the top retainer and top porous plug (Figures 8 & 9)

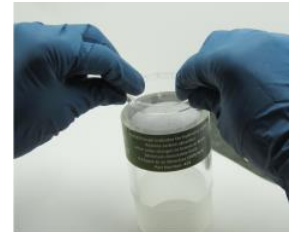


Figure 8

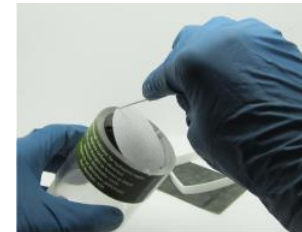


Figure 9

1.6. Empty consumed sorption media (Figure 10)

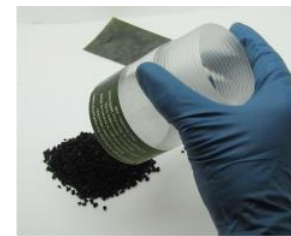


Figure 10

1.7. Allow indicator body to stand for 24 hours or blow clean air through it to remove any traces of contaminants (Figure 11)



Figure 11

1.8. Inserts suitable colorimetric indicator assembly; see Table 2, (Figures 12 & 13).



Figure 12



Figure 13

1.9. Replace bottom porous plug (Figures 14 & 15)



Figure 14

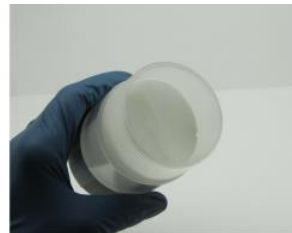


Figure 15

1.10. Replace red plug (Figure 16)



Figure 16

1.11. Turn BTI 3 top side up and charge top with suitable sorption media (Figure 17)



Figure 17

1.12. Replace top porous plug (Figure 18)



Figure 18

1.13. Replace top retainer, insure to align the green mark on retainer and the indicator (Figure 19)

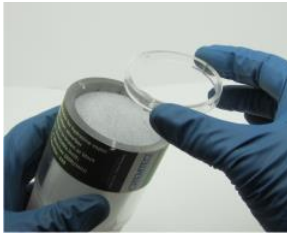


Figure 19

1.14. Insert the three cotter pins to hold top retainer to indicator body, use pliers to secure pins in place (Figures 20 & 21)

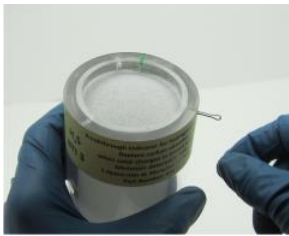


Figure 20



Figure 21

PLEASE CALL US AT 757-622-2223 OR EMAIL US AT info@chemteq.net
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