Installation Instructions Gravity Return Piping Kit Gas Steam Boilers

GENERAL INFORMATION

- A. This instruction contains information on assembly/ installation of the Gravity Return Piping Kit on the following boiler sizes:
 - 1. Kit 63X047: 3 & 4 section boilers.
 - 2. Kit 63X048: 5 & 6 section boilers.

This information can also be found in Steam Piping in *Installation, Operating and Service Instructions* provided with boiler or available on manufacturer's website.

NOTICE: Difference in Piping Compound / method may effect pipe alignment.

- B. Materials Provided with this kit.
 - 1. Installation Instructions.
 - 2. See Table 1 for Standard Header material provided or Table 3 for Drop Header material provided for 3 and 4 section boilers.
 - 3. See Table 2 for Standard Header material provided or Table 4 for Drop Header material

provided for 5 and 6 section boilers.

- C. Installation of Gravity Return Piping Kit.
 - Assemble Gravity Return Piping Kit for 3 and 4 section boilers as illustrated in Figure 1 for Standard Header configuration or Figure 3 for Drop Header configuration.
 - 2. Assemble Gravity Return Piping Kit for 5 and 6 section boilers as illustrated in Figure 2 for Recommended configuration or Figure 4 for Dropped Header configuration.

Note: Tighten unions only after all piping is in the proper position. Recommend using Pipe Dope or Teflon Tape on all threaded surfaces.

D. Place boiler in operation.

Refer to System Start-up and Checkout in Installation, Operating and Service Instructions.



PeerlessBoilers.com

PB HEAT, LLC
131 S. CHURCH STREET • BALLY. PA 19503

Table 1: Standard Header Material Provided for 3 and 4 Section Boilers

Item	Fittings	Quantity
1	2" x 12" Nipple	1
2	2" Union	1
3	2" x 4" Nipple	2
4	2" Elbow	2
5	2" x 10-1/2" Nipple	1
6	2" x 4" Nipple (3 Section)	1
	2" x 9" Nipple (4 Section)	1
7	2" Tee	1
8	2" - 1-1/2" Reducing Elbow	1
9	1-1/2" x 8" Nipple	1
10	1-1/2" Union	1
11	1-1/2" x18-1/4" Nipple	1
12	1-1/2" Wye	1
13	1-1/2"x 1-1/4" Bush	1
14	1-1/4" x 2" Nipple	3
15	1-1/4"Tee	1
16	1-1/4" x 1-1/4" x 3/4" Tee	1
17	1-1/4" Plug	1
18	1-1/4" x 2-1/2" Nipple	1
19	1-1/4" Union	1
20	2" x 1-1/4" Bush	1

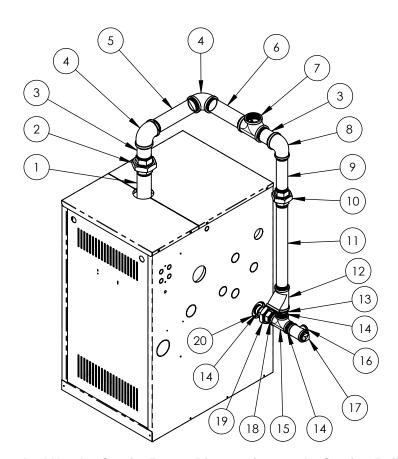


Figure 1: Standard Header Gravity Return Diagram for 3 and 4 Section Boilers

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Table 2: Standard Header Material Provided for 5 and 6 Section Boilers

Item	Fittings	Quantity
1	2" x 12" Nipple	2
2	2" Union	3
3	2" x 4" Nipple	2
4	2" Elbow	2
5	2" x 10-1/4" Nipple	2
6	3" x 2" Reducing Elbow	2
7	3" x 7" Nipple (5 Section)	1
	3" x 12" Nipple (6 Section)	1
8	3" x 3" x 2" Tee	1
9	3" x 4" Nipple	2
10	3" Tee	1
11	2" x 17" Nipple	1
12	2" x 8" Nipple	1
13	2" Wye	1
14	2" x 1-1/2" Bush	2
15	1-1/2" x 1-3/4" Nipple	2
16	1-1/2" Tee	1
17	1-1/2" x 1-1/2" x 3/4" Tee	1
18	1-1/2" Plug	1
19	1-1/2" x 2-1/2" Nipple	1
20	1-1/2" Union	1
21	1-1/2" x 2 Nipple	1

Note: Item 7 can be replaced with a 3" x 17" nipple to use this kit for 7 section boilers.

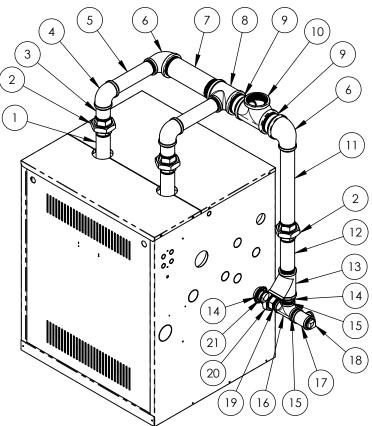


Figure 2: Standard Header Gravity Return Diagram for 5 and 6 Section Boilers

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Table 3: Drop Header Material Provided for 3 and 4 Section Boilers

Item	Fittings	Quantity
1	2" x 12" Nipple	1
2	2" Union	1
3	2" x 4" Nipple	3
4	2" Elbow	3
5	2" x 10-1/2" Nipple	1
0	2" x 4" Nipple (3 Section)	1
6	2" x 9" Nipple (4 Section)	1
7	2" Tee	1
8	2" - 1-1/2" Reducing Elbow	1
9	1-1/2" x 8" Nipple	1
10	1-1/2" Union	1
11	1-1/2" x 10-1/2" Nipple	1
12	1-1/2" Wye	1
13	1-1/2" x 1-1/4" Bush	1
14	1-1/4" x 2" Nipple	3
15	1-1/4" Tee	1
16	1-1/4" x 1-1/4" x 3/4" Tee	1
17	1/14" Plug	1
18	1-1/4" x 2-1/2" Nipple	1
19	1-1/4" Union	1
20	2" x 1-1/4" Bush	1

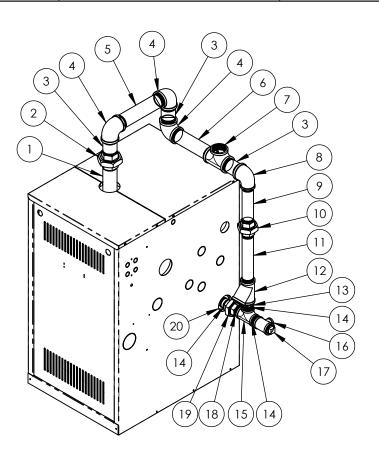


Figure 3: Drop Header Gravity Return Diagram for 3 and 4 Section Boilers

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Table 4: Drop Header Material Provided for 5 and 6 Section Boilers

Item	Fittings	Quantity
1	2" x 12" Nipple	2
2	2" Union	3
3	2" x 4" Nipple	4
4	2" Elbow	4
5	2" x 10-1/4" Nipple	2
6	3" x 2" Reducing Elbow	2
7	3" x 7" Nipple (5 Section)	1
_ ′	3" x 12" Nipple (6 Section)	1
8	3" x 3" x 2" Tee	1
9	3" x 4" Nipple	2
10	3" Tee	1
11	2" x 8-5/8" Nipple	1
12	2" x 8" Nipple	1
13	2" Wye	1
14	2" x 1-1/2" Bush	2
15	1-1/2" x 1-3/4" Nipple	2
16	1-1/2" Tee	1
17	1-1/2" x 1-1/2" x 3/4" Tee	1
18	1-1/2" Plug	1
19	1-1/2" x 2-1/2" Nipple	1
20	1-1/2" Union	1
21	1-1/2" x 2" Nipple	1

Note: Item 7 can be replaced with a 3" x 17" nipple to use this kit for 7 section boilers.

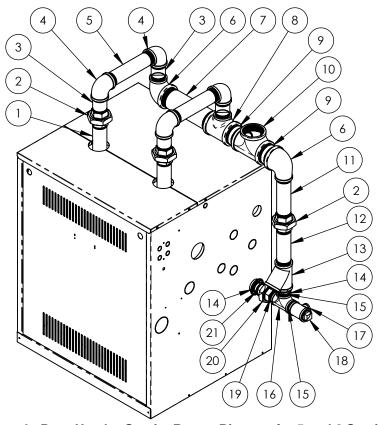


Figure 4: Drop Header Gravity Return Diagram for 5 and 6 Section Boilers

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