PLAINTIFF'S EXHIBIT
ASI-484

AMERICAN STANDARD

V-3 OIL BOILER

INSTRUCTION MANUAL

NON-PACKAGED BOILER ONLY UNITS AND BOILER-BURNER UNITS

NOTICE TO INSTALLER AND OPERATOR

THIS BOOKLET MUST BE AFFIXED ON OR ADJACENT TO THE HEATING EQUIPMENT.

FORM NO. BP-33414-01

SERIES 1B-J2

To the homeowner:

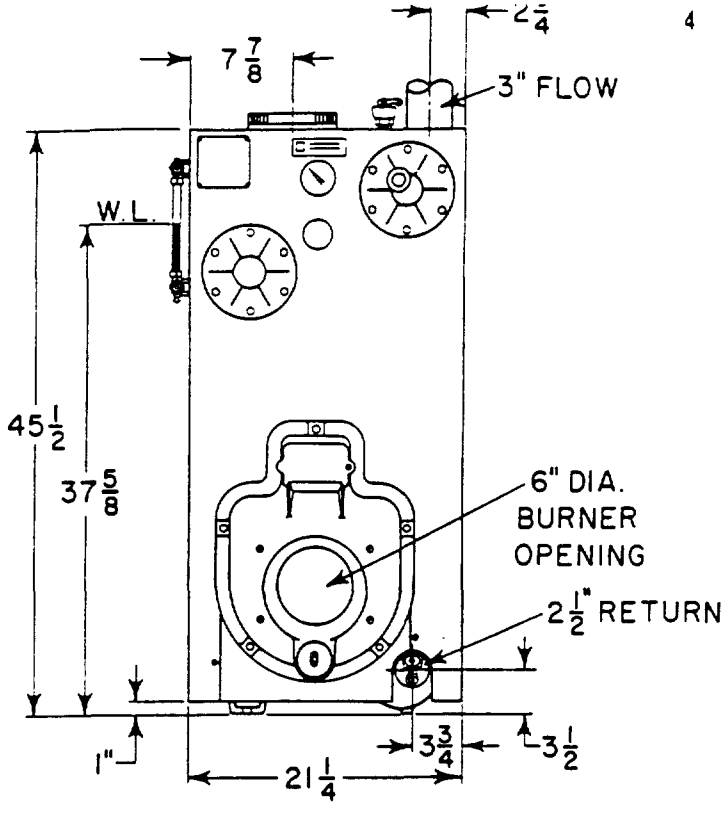
The American-Standard boiler, which has been installed for you is the heart of your hydronic heating system. Since the performance of your system depends upon the boiler, it has been designed to operate at maximum efficiency. Advanced design, precision engineering, and modern manufacturing techniques are combined in this product to provide you with comfort at a low operating cost and with a minimum of maintenance.

The boiler sections are cast in iron--a metal resistant to corrosion, especially in a closed system. If this boiler is part of a new installation, it is joined in a closed system--i.e., normally water is neither lost nor added--and should not be drained. The replacement of water adds oxygen to the system; corrosive action continues until that oxygen is consumed; but, certainly, the boiler should not be fired without an adequate supply of water. On the other hand, if the boiler is not used during the winter months, it must be drained to prevent damage caused by freezing.

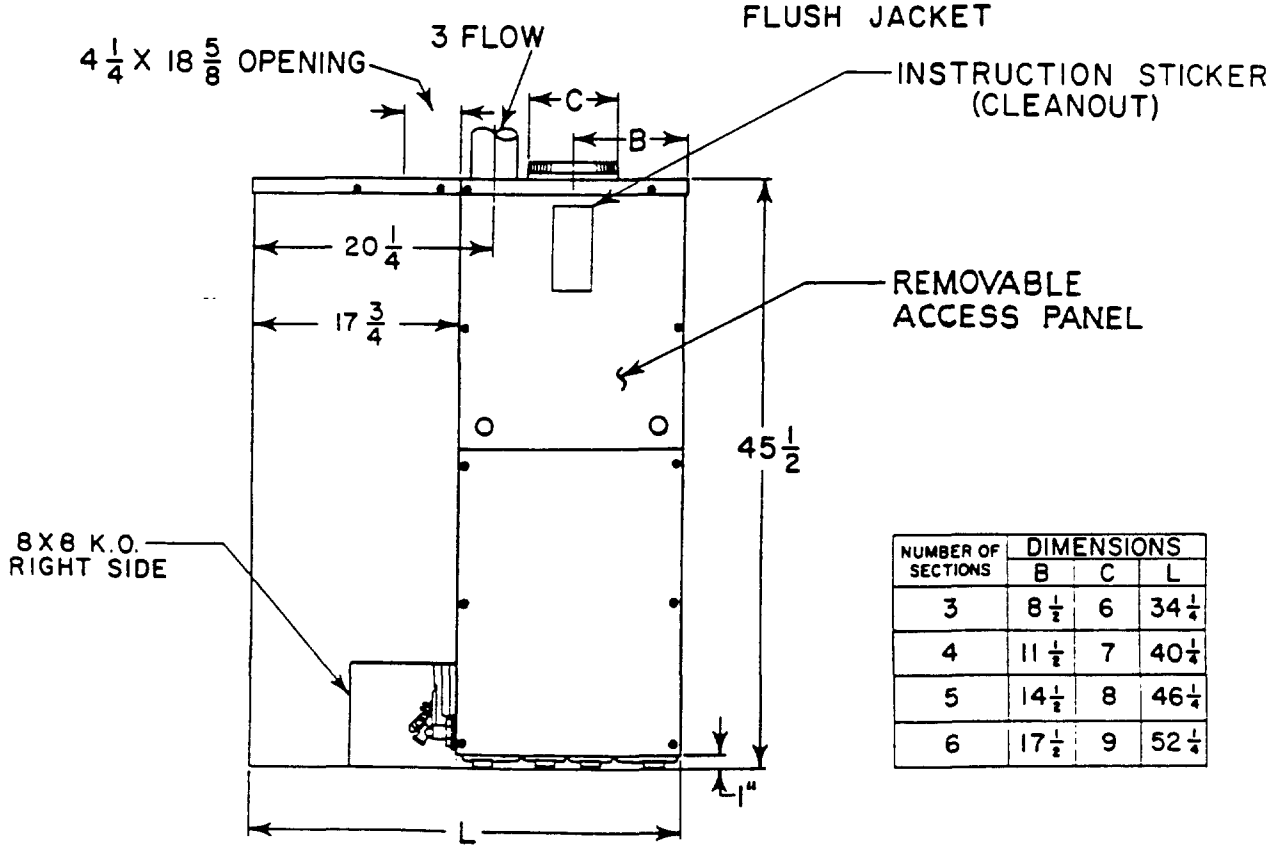
By following the suggestions contained in this manual, you can assume your boiler will function properly for many years. Should any problem arise, contact your nearest American-Standard contractor, whose name can be found in the "yellow pages" of your telephone directory.

AMERICAN-STANDARD

V-3 Non Pkgd. Blr.



FRONT VIEW
FLUSH JACKET



NUMBER OF SECTIONS	DIMENSIONS		
	B	C	L
3	8 1/2	6	34 1/4
4	11 1/2	7	40 1/4
5	14 1/2	8	46 1/4
6	17 1/2	9	52 1/4

SIDE VIEW EXTENDED JACKET

NOTE: For reference purposes, this manual contains two areas of information; instructions for steam boilers and instructions for water boilers.

GENERAL INFORMATION

The V-3 All-Purpose boiler comes as either a steam, forced or gravity water boiler. It is a wet base boiler with outputs ranging from 116 MBH to 302 MBH, boiler-burner units, and 92 MBH to 248 MBH boiler-only units. Each arrangement begins with three sections and extends to six sections.

This boiler was designed with provisions for domestic hot water coils. To meet this objective, an additional upper nipple is provided below the steam boiler water line. The hot water coil is inserted here for steam boilers, and in the other upper nipple at the top of the boiler for water boilers (See Figures 1 and 2).

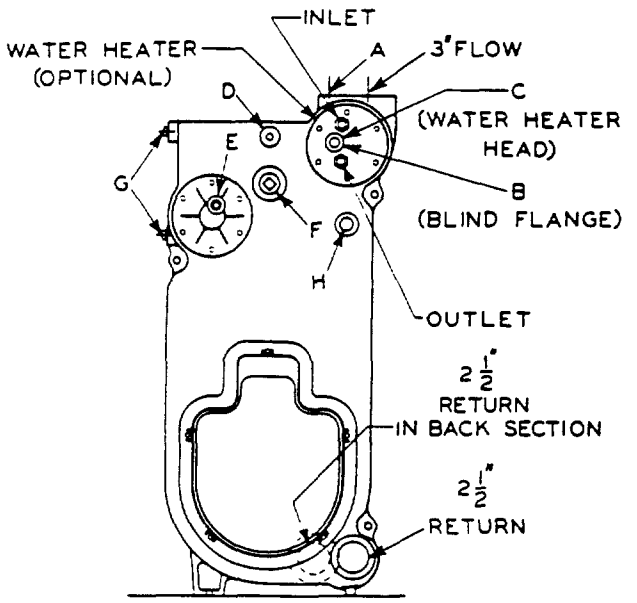
LOCATING THE BOILER

Prior to unpacking the necessary boiler parts and components, the final place of installation should have been determined. The boiler should be located as closely as possible to the chimney, with adequate space being available for the removal of a water heater, when necessary, and to allow for periodic cleaning.

Caution - For Water Boilers - Precautionary steps should be taken, prior to boiler installation, to insure against the expansion tank being set in a cold or exposed place. If freezing of the piping leading to or from the tank were to occur, serious damage might result. In addition, if a valve of any type is installed in the expansion tank piping, make sure that it is always open while the boiler is in operation.

I= B= R ratings and firing rates for the boiler-burner unit, see page 6. Boiler-only units, see page 7.

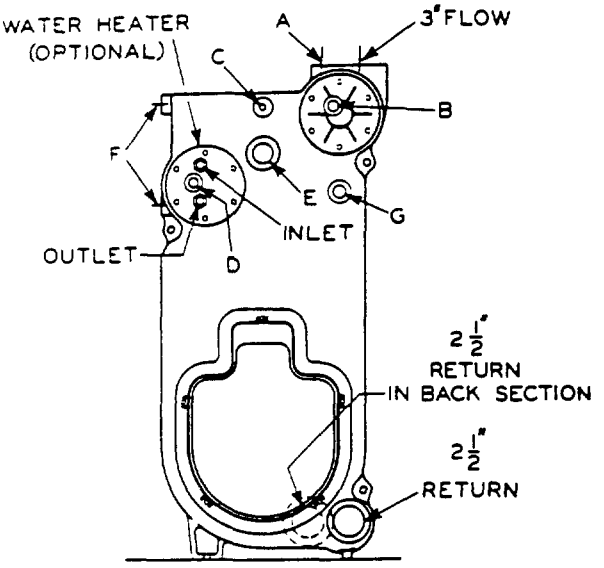
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FRONT VIEW-SHOWING
CONTROL TAPPINGS
ALL PURPOSE SECTION
ARRANGED FOR WATER

CONTROL TAPPINGS		
LOCATION	SIZE OF TAPPINGS	CONTROL USED
A	3/4	RELIEF VALVE
B	3/4	LIMIT CONTROL OR COMBINATION LIMIT AND REVERSE ACTING CONTROL (FOR INSTALLATIONS WITHOUT TANKLESS WATER HEATER)
C	3/4	IMMERSION CONTROL DOUBLE THROW SWITCH OR IMMERSION CONTROL RELAY COMBINATION (FOR INSTALLATIONS WITH TANKLESS WATER HEATER)
D	1/4	COMBINATION ALTITUDE GAUGE AND THERMOMETER
E	3/4	AUXILIARY LIMIT CONTROL (WHEN REQUIRED)
F	1 1/2	NOT USED
G	1/2	NOT USED
H	3/4	REVERSE ACTING CONTROL

Figure 1



FRONT VIEW-SHOWING
CONTROL TAPPINGS
ALL PURPOSE SECTION
ARRANGED FOR STEAM

CONTROL TAPPINGS		
LOCATION	SIZE OF TAPPINGS	CONTROL USED
A	3/4	SAFETY VALVE
B	3/4	PRESSURE LIMIT CONTROL
C	1/4	PRESSURE GAUGE
D	3/4	IMMERSION OPERATING CONTROL (FOR INSTALLATIONS WITH TANKLESS WATER HEATER)
E	1 1/2	BLOW-OFF
F	1/2	GAUGE GLASS AND LOW WATER CUT-OFF
G	3/4	WATER FLOW CONNECTION FOR STEAM BOILER

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Figure 2

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I=B=R Ratings and Firing Rates

Boiler Burner Units

of t.	Model* Number	Burner Used	I-B-R Burner Capacity (GPH)	Nozzle Used	I-B-R Gross Output (MBH)	Net Installed Rad.-Water (MBH)	Net Installed Rad.-Steam Sq. Ft.	Tankless Heater Number	**Tankless Heater Rating Steam (GPM)	**Tankless Heater Rating Water (GPM)	I-B-R Nominal Chimney Size	Approx. Shipping Weight Non-Packaged Boiler Burner Unit
3	V3-116	DH-4F1	1.05	1.00-80ES	116	100.9	363.0	222	4-1/4	4-3/4	8x8x15	613
3	V3-128	DH-4F1	1.15	1.10-80ES	128	111.3	400.0	222	4-1/4	4-3/4	8x8x15	613
4	V3-172	DH-5F2	1.55	1.50-80 ES	172	149.6	538.0	226	5-1/4	5-3/4	8x8x15	790
4	V3-186	DH-5F2	1.70	1.65-70 ES	186	161.7	581.0	226	5-1/4	5-3/4	8x8x15	790
5	V3-228	DH-5F3	2.10	2.00-70 R	228	198.3	713.0	232	6-1/4	7	8x8x15	967
5	V3-244	DH-5F3	2.25	2.25-70 R	244	212.2	763.0	232	6-1/4	7	8x12x15	967
6	V3-284	DH-5F3	2.60	2.50-70 B	284	247.0	888.0	445	7-1/4	8-1/4	8x12x15	1,144
6	V3-302	DH-5F3	2.80	2.75-60 B	302	262.6	944.0	445	7-1/4	8-1/4	8x12x15	1,144

*"WB" WILL IMPLY WATER APPLICATION

"SB" WILL IMPLY STEAM APPLICATION

** "Gallons per minute of water heated from 40 degrees F to 140 degrees F with 200 degrees F boiler water."

SUFFIX "B" IMPLIES BOILER BURNER UNITS

FOR BOILER WITH TANKLESS HEATER ADD SUFFIX "T"

I.E.

V3-116WBT or V3-116WB

I. B.-R Ratings and Firing Rates

Boiler Only Units

No. of Sect.	Model* Number	Burner Used	I-B-R Burner Capacity (GPH)	Nozzle Used	I B R Gross Output (MBH)	Net Installed Rad.-Water (MBH)	Net Installed Rad.-Steam (MBH)	Tankless Heater Number	**Tankless Heater Rating Steam (GPM)	**Tankless Heater Rating Water (GPM)	I B R Nominal Chimney Size	Approx. Shipping Weight Non-Packaged Boiler Burner Unit
3	V3M-92	DH-5(1)	.85	.85-70W	92	80.0	69.0	222	4	4-1/2	8x8x15	613
3	V3M-110	DH-5(1)	1.00	1.00-70W	110	95.7	82.5	222	4	4-1/2	8x8x15	613
4	V3M-138	DH-5(2)	1.30	1.25-70B	138	120 0	103.5	226	5	5-1/2	8x8x15	790
4	V3M-156	DH-5(2)	1.45	1.35-70B	156	135.7	117.0	226	5	5-1/2	8x8x15	790
5	V3M-184	DH-5(2)	1.70	1.65-70B	184	160.0	138.0	232	6	6-3/4	8x8x15	967
5	V3M-202	DH-5(2)	1.90	1.75-70B	202	175.7	151.5	232	6	6-3/4	8x8x15	967
6	V3M-230	DH-5(3)	2.15	2.00-70B	230	200.0	172.5	445	7	7-3/4	8x12x15	1,144
6	V3M-248	DH-5(3)	2.35	2.25-60B	248	215.7	186.0	445	7	7-3/4	8x12x15	1,144

*"W" WILL IMPLY WATER APPLICATION

"S" WILL IMPLY STEAM APPLICATION

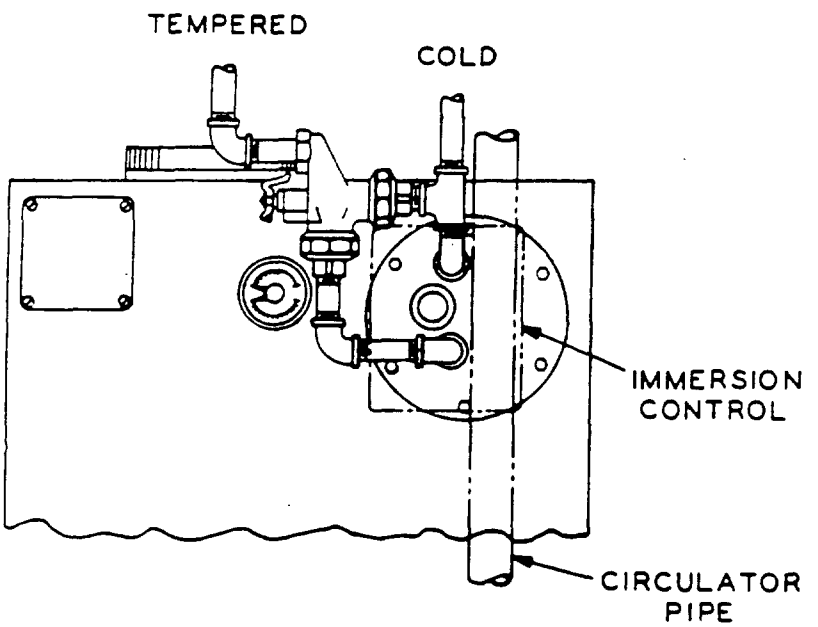
** "Gallons per minute of water heated from 40 degrees F to 140 degrees F with 200 degrees F boiler water."

FOR BOILER WITH TANKLESS HEATER ADD SUFFIX "T"

I.E.

V3M-92WT or V3M-92W

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PARTIAL VIEW SHOWING PIPING FROM WATER HEATER TO MIXING VALVE

UNSATISFACTORY CONDITIONS AT INSTALLING SITE

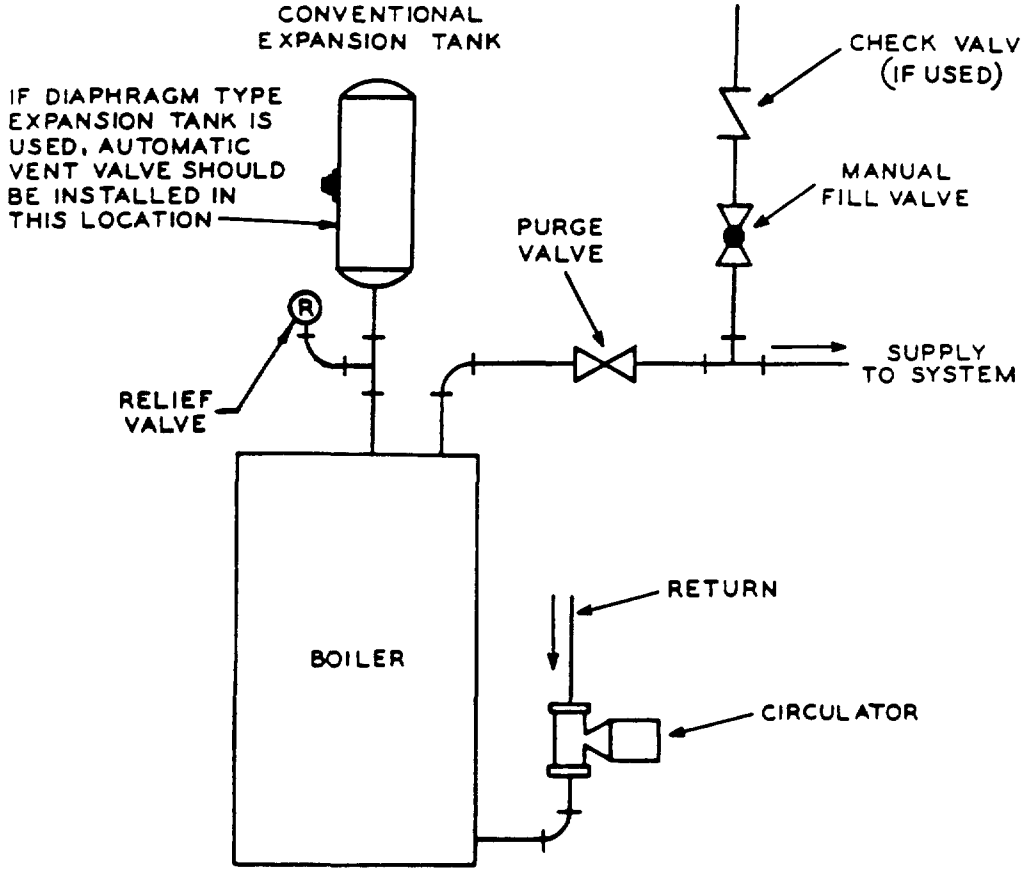
If a wet condition exists where the boiler is to be installed, or if it has been necessary to waterproof the floor at the installation site, the boiler should be mounted on a concrete or hollow tile base, preferably at a height of at least three inches. If a jacket extension is to be used, the base should be increased accordingly.

After these preliminary measures have been taken, the boiler components and parts should be unpacked, assembled, and installed in accordance with the following instructions.

INSTALLATION INSTRUCTIONS - FOR WATER BOILERS

1. After initial hookup of the boiler to the heating system, and prior to final installation procedures, plug tappings, fill system with water (See Figure 3), and subject it to not less than 10 lbs. nor more than 30 lbs. pressure. Inspect boiler and piping for leaks. Do not install gauge until after testing boiler.
2. Putty outside of sections at joints with boiler putty which is packed with the boiler. Also putty around canopy and cleanout cover plate, if putty seal has been damaged through handling.
3. Remove insulation for canopy (packed with jacket), and apply to canopy according to instructions in the jacket box.
4. Place the top jacket panel in position on top of boiler, then connect the supply and return piping. Place the front jacket panel in position by sliding it under the flange of the burner plate.
5. Assemble right and left side jacket panels to the front panel with #10 x 1/2" sheet metal screws. The design of the jacket provides for a one-inch clearance of the jacket above the floor. It is recommended that a suitable support be placed under each side panel near the rear, and left in position until the jacket assembly is complete. Leave all jacket screws loose until jacket is fully assembled, then tighten.
6. Assemble right and left side jacket panels to flanges on the back panel with #10 x 1/2" sheet metal screws.
7. Assemble the top panel to the side panels using #10 x 1/2" sheet metal screws. A cut out is provided in the top panel to permit assembly or removal after supply pipe is connected to the supply tapping.
8. If a circulator is to be installed in the return line and enclosed by a jacket extension (furnished on special order only), pipe fittings must be selected so that parts do not project beyond either side of the boiler.

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V-3 Non Pkgd. Blr.

PROCEDURE FOR FILLING SERIES LOOP HEATRIM SYSTEM

1. Open fill valve.
2. Close purge valve.
3. Vent air from boiler by manually opening relief valve.
4. When water appears at relief valve, release lever and allow to close.
5. Continue filling until pressure gauge reads approximately 12 pounds.
   (Close fill valve)
6. Open purge valve.

NOTE: For a single loop Heatrim System, no additional vents, cocks, valves, drains, or other accessories are required, except: When tankless heater is used and heatrim is above the boiler outlet, install a flow check valve to prevent gravity circulation.

Figure 3

9. Install the altitude and temperature gauge in the 1/4" tapping on the face of the front section before installing any other controls (See Figure 4).
10. Mount the oil burner on the hanger bracket provided on the burner plate, and complete the installation in accordance with the instructions furnished with the burner. Pressure ring for the burner is packed in jacket box.
11. Install relief valve.
12. Install the flue pipe and draft stabilizer using instructions provided with the stabilizer. The flue pipe should not extend beyond the inside wall of the chimney flue. Horizontal runs of flue pipe should be kept at a minimum with approximately 1/4" pitch per foot maintained.
13. Install room thermostat, and run electric service line from switch (not supplied by American-Standard). Make all wiring connections to controls in accordance with wiring diagram in control package.

When making piping connection to the circulator (if used) be sure that the flange gasket is not damaged, and that the bolts are equally tightened. See decal on circulator for lubrication instructions.

V-3 Non Pkgd. Blr.

Never start boiler unless it is properly filled. After boiler is in operation, makeup water should be added slowly.

Open systems should be filled to 1/3 height of the expansion tank.

When filling a closed hot water system, care should be taken to insure that the pressure does not exceed 30 lbs. If pressure does exceed 30 lbs. and the relief valve does not open, pressure must be relieved immediately, and relief valve failure investigated and corrected; otherwise high pressure might build up while the boiler is in operation and cause damage to the heating system.

CARE OF THE BOILER WHILE NOT IN OPERATION

During extended periods when the boiler is not in use, such as summer months, the boiler and system should be kept filled. The only time a boiler should be drained, when not in use, is in the winter to prevent possible freezing.

In the fall it is advisable to drain a slight amount of water to remove sludge, taking care not to drain an over-amount.

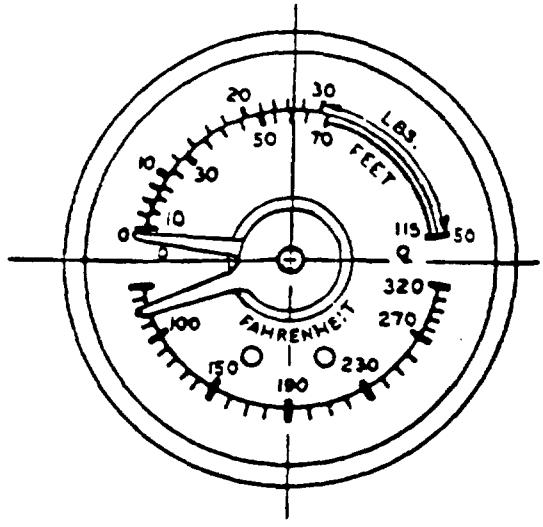


Figure 4

The homeowners should periodically check the readings on the gauge, located on the front of the boiler. The lower scale indicates the water temperature and that temperature should never be allowed to exceed 250°. The boiler is designed to operate with a normal maximum water temperature of 230°; but, during mild weather, the system operates with water temperatures considerably below the maximum.

The upper scale indicates the pressure within the system and should not exceed 30 lbs. In a closed system, the boiler and piping are entirely filled with water except for a cushion of air in the upper portion of the expansion tank. When the water is heated, it expands, compressing the air in the expansion tank. If, for any reason, this air were completely displaced from the tank, there would no longer be a cushion; an increase in water temperature would cause a corresponding increase in volume; pressure would force the relief valve open to discharge the excess volume. To correct such a condition, the expansion tank must be drained enough to permit the tank to fill with air.

...ATION ALTITUDE GAUGE AND THERMOMETER

...damage to gauge or possible impairment of its accuracy, DO NOT INSTALL ... BOILER OR SYSTEM HAS BEEN WATER TESTED FOR TIGHTNESS.

...ation gauge is used with water boilers and is connected into the tapping in ... section. This gauge serves these purposes:

1. Indicates temperature of the water in the boiler
2. Indicates height of water level in feet above the gauge for OPEN SYSTEMS.
3. Indicates water pressure in pounds per square inch for CLOSED SYSTEMS where pressure is controlled by means of automatic relief or regulating valve.

...ANING BOILER

...end of the heating season, clean boiler surface thoroughly. Access to ...ways may be gained by removing the upper half of right-hand side panel ...tion removing the cleanout door.

... access panel may be removed after unscrewing, by lifting and swinging out ... bottom of the panel first, using the two finger holes provided in the panel.

...y flue surfaces with light lubricating or crankcase oil using gun with extended ... so as to reach all corners.

... and remove the flue pipe, when feasible.

...STALLATION INSTRUCTIONS - FOR STEAM BOILERS

... Before connecting boiler to the heating system, plug tapped openings ...nd install water heater (if used) in large nipple below water line. Install cover plates and gaskets in unused water heater openings. Fill boiler with water and subject it to not less than 10 lbs. nor more than 30 lbs. pressure. Inspect boiler for leaks. Do not install gauge until after boiler is tested.

... Putty outside of sections at joints with boiler putty which is packed with the boiler. Also putty around canopy and cleanout cover plate, if putty seal has been damaged through handling.

Remove insulation for canopy (packed with jacket), and apply to canopy according to instructions in the jacket box.

... Place the top jacket panel in position on top of boiler, then connect the supply and return piping. Place the front jacket panel in position by sliding it under the flange of the burner plate.

... Assemble right and left side jacket panels to the front panel with #10 X 1/2" sheet metal screws. The design of the jacket provides for a one-inch clearance of the jacket above the floor. It is recommended that a suitable support be placed under each side panel near the rear, and left in position until the jacket assembly is complete. Leave all jacket screws loose until jacket is fully assembled, then tighten.

6. Assemble right and left side jacket panels to flanges on the back panel with #10 x 1/2" sheet metal screws.

7. Assemble the top panel to the side panels using #10 x 1/2" sheet metal screws. A cut out is provided in the top panel to permit assembly or removal after supply pipe is connected to the supply tapping.

8. Mount the oil burner on the hanger bracket provided on the burner plate, and complete the installation in accordance with the instructions furnished with the burner. Pressure ring for the burner is packed in the jacket box.

9. Install the Hartford loop piping system (See Figure 5).

10. Install steam pressure gauge in 1/4" tapping on face of front section.

11. It is recommended that a low water cutoff be installed in the gauge glass tapping.

12. Install blowoff piping, safety valve, and gauge glass.

13. Install the flue pipe and draft stabilizer using instructions provided with the stabilizer. The flue pipe should not extend beyond the inside wall of the chimney flue. Horizontal runs of flue pipe should be kept at a minimum with approximately 1/4" pitch per foot maintained.

14. Install room thermostat, and run electric service line from switch (not supplied by American-Standard). Make all wiring connections to controls in accordance with wiring diagram in control package.

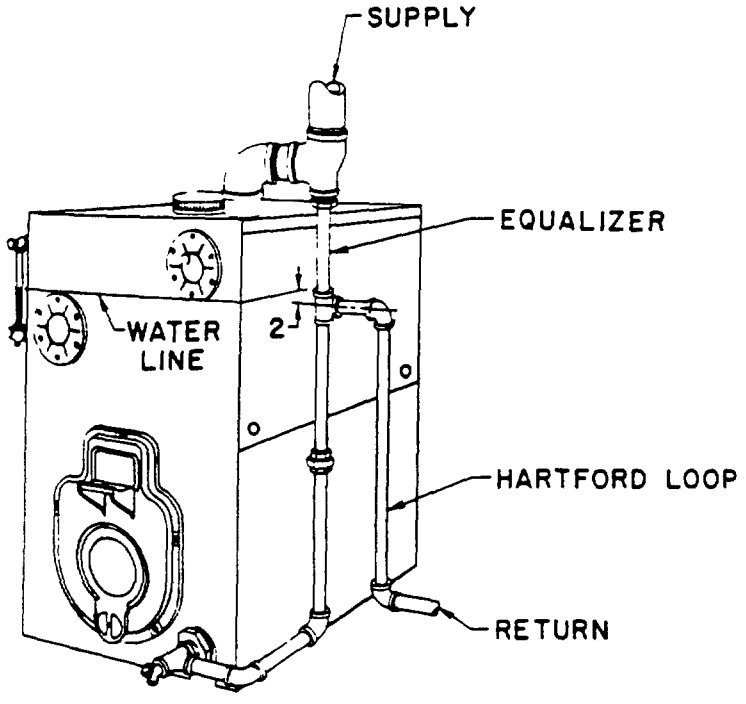
15. For wiring of low water cut off refer to Figure 6; boilers less low water cut off refer to Figure 7.

Never start boiler unless it is properly filled. After boiler is in operation, makeup water should be added slowly.

CARE OF BOILER WHILE NOT IN OPERATION

During extended periods when the boiler is not in use, such as summer months, the boiler and system should be kept filled. The only time a boiler should be drained when not in use is in the winter to prevent possible freezing.

In the fall it is advisable to drain a slight amount of water to remove sludge, taking care not to drain an over-amount.



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BOILER NUMBER	SUPPLY (IN.)	RETURN (IN.)	EQUALIZER (IN.)
V3-3	2	1	1 1/2
V3-4	2 1/2	1	1 1/2
V3-5	2 1/2	1	1 1/2
V3-6	3	1	1 1/2

Figure 5

V-3 Non Pkgd. Blr.

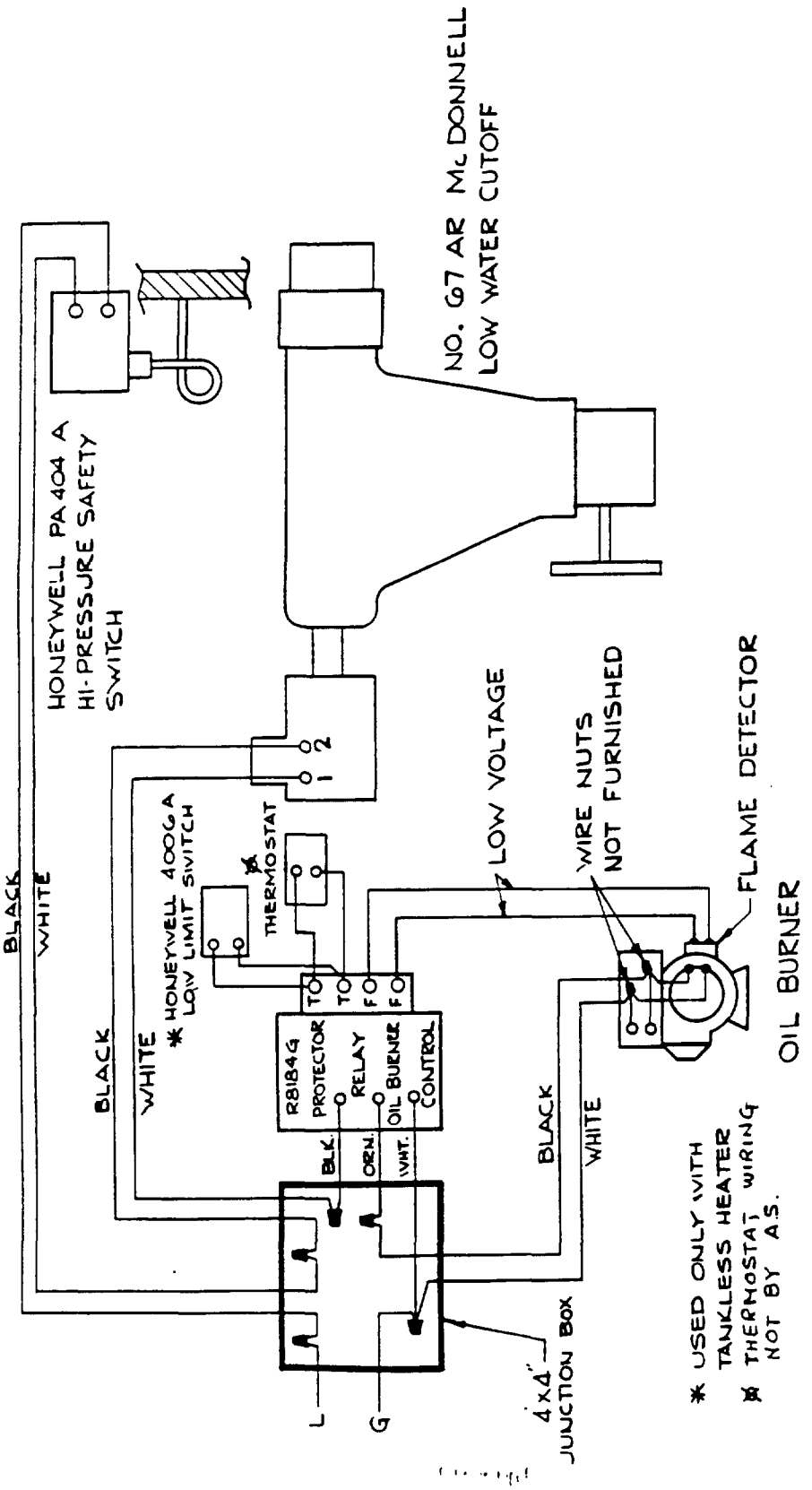
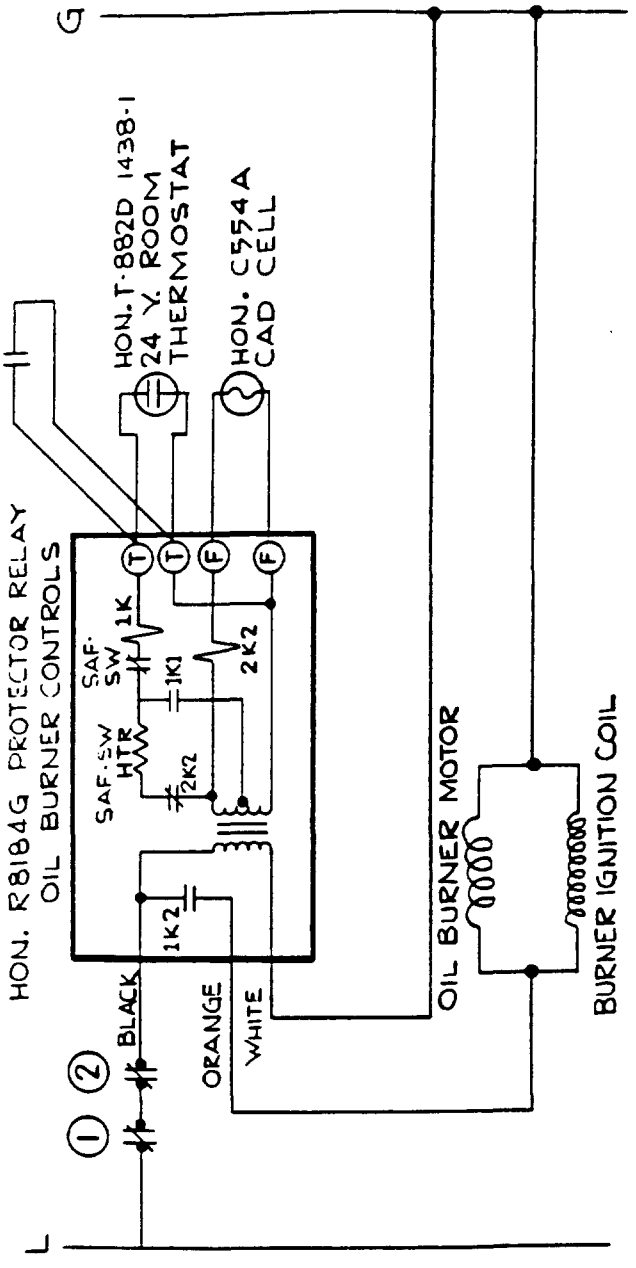


Figure 6



① HONEYWELL PA 404A PRESSURTROL (HI-PRESS. SW.)
② Mc DONNELL NO. 67 AR LOW WATER CUT-OFF
*③ HONEYWELL L4006A LOW LIMIT SWITCH, USED ONLY WITH TANKLESS HEATER.

Figure 7

CLEANING STEAM BOILER

The grease used to lubricate the cutting tools during erection of new piping systems serves as a carrier for sand and dirt, with the result that a scum of fine particles and grease accumulates on the surface of the water in all new boilers, while heavier particles may settle to the bottom of the boiler and form sludge. These impurities tend to cause foaming, preventing the generation of steam and causing an unsteady water line.

This unavoidable accumulation of oil and grease should be removed by blowing-off the boiler as follows: If not already provided, install a surface blow connection of at least 1-1/4" nominal pipe size with outlet extended to within 18 inches of the floor or to sewer, inserting a valve in line close to boiler. Bring the water line to center of outlet, raise steam pressure, and while still firing open valve in blow-off line. When pressure recedes, close valve and repeat process adding water at intervals to maintain proper level. As a final operation, bring the pressure in the boiler to about 10 lbs., close blow-off, stop burner, and open drain valve. After boiler has cooled, partly fill and flush out several times before filling it to proper level for normal service. The use of soda or any alkali, vinegar or any acid is not recommended for cleaning heating boilers because of the difficulty of complete removal and the possibility of subsequent injury after the cleaning process has been completed.

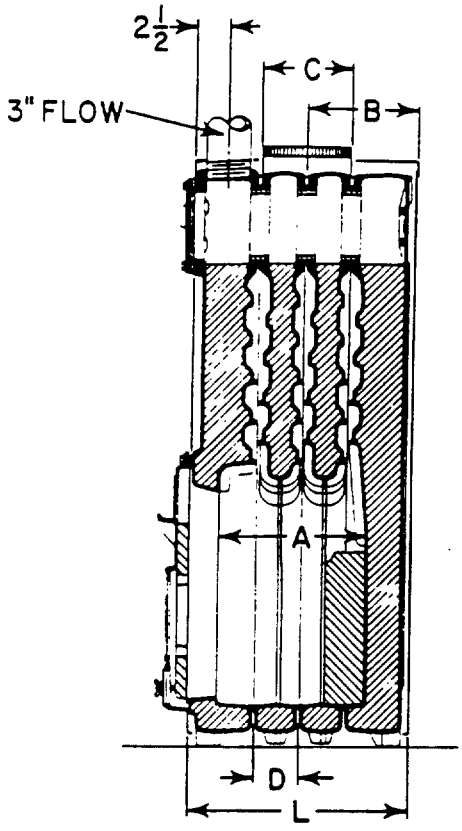
WATER AND STEAM BOILER CONSTRUCTION DETAILS

Cored Section Castings - Three different cored section castings are used to make up the V-3 All-Purpose boiler.

1. Front section with three-inch supply tapping.
2. Back section.
3. Six-inch wide center section.

COMBUSTION CHAMBER

The V-3 Boiler has a one-piece pre-cast Refractory Target Wall, specially designed for maximum performance and efficiency with a flame retention burner. The V-3M Boiler Only Unit employs a full refractory chamber for non-flame retention type burners. Figure 8 shows the target wall for the boiler burner units, although all dimensions are applicable to both boiler arrangements.



SECTION THRU BOILER

NUMBER OF SECTIONS	DIMENSIONS				
	A	B	C	D	L
3	10 3/8	8 1/2	6	6	16 1/2
4	16 3/8	11 1/2	7	6	22 1/2
5	22 3/8	14 1/2	8	6	28 1/2
6	28 3/8	17 1/2	9	6	34 1/2

Figure 8

Oil Burner - This boiler has been engineered to give maximum performance with the DH-F flame retention burner for boiler-burner units. The conventional type burner to be used in the boiler only units.

Controls - The All-Purpose boiler will make use of a light-sensing primary control; other than this, the controls for this boiler are conventional. Locations are shown on Figure 1 for water, and Figure 2 for steam.

Jacket - The jacket design is conventional with other boilers of the American-Standard line.

Burner Plate and Door - These are integral components and are made of cast iron with a requirement of a radiation shield for the boiler only units. The boiler-burner units do not require the use of the radiation shield.

Canopy - An aluminized sheet steel canopy is provided. Smokepipe sizes are as follows:

No. of Sections	Smokepipe Size
3	6 inches
4	7 inches
5	8 inches
6	9 inches

Insulation - The entire jacket is insulated with 1/2" fiberglass. An additional one-inch fiberglass is used on the canopy; no additional insulation is required.

CAUTION TO INSTALLER AND OWNER

This hydronic heating boiler incorporates the best in engineering and manufacturing techniques and will give years of good service and trouble-free operation if properly treated.

The heat transfer surface has been carefully designed to give optimum performance and reliability. However, the presence of contaminants such as scale, sediment and boiler sealing compounds in the section waterways may serve to insulate the heat transfer surface and cause premature failure of the sections.

Scale build-up can be prevented by good installation practices which eliminate addition of makeup water to the system.

Sediment which may accumulate in the boiler should be flushed out on a regular basis in accordance with recommended maintenance practices.

Occasionally, leaks will be detected in the system. These leaks are usually of such a nature that they may be prevented or corrected by good workmanship. Every effort should be made to correct them without the use of boiler sealing compounds. If sealing compounds are used, they should be used as sparingly as possible and never in excess of the manufacturer's recommendations. Following their use the boiler must be thoroughly flushed out. Otherwise, serious damage may result.

In some special installations, glycol anti-freeze is added to the water in the system to protect against freezing during cold weather when the boiler is not being fired and the system is not drained. Although American Standard cannot recommend this practice, we recognize that glycol anti-freeze will occasionally be used. Heat transfer is poorer with glycol than with water. Therefore, glycol should never be used in greater quantity than 50% in the system; with any quantity, radiator output will be lower than with plain water. It is always better, when possible, to drain the entire system, rather than use anti-freeze; the heating system and house plumbing will not freeze while the heating system is operating; and plumbing is not protected if the heating system is not operating, whether or not anti-freeze is used.

Cast iron is highly resistant to corrosion. However, some propellants used in aerosol cans break down into poison gas and corrosive gas at high temperature: if aerosol mixtures are used near boilers, the aerosol will enter the boiler flame and be heated. Continued use of aerosol cans near heating systems may result in severe boiler heating surface corrosion and possible danger to health.

CONSUMER PROTECTION - WARRANTY

American-Standard products normally reach owners or consumer-users through an industry channel of distributors and plumbing and heating contractors. Experience has shown that claims of defects in our products generally relate to abuse or to other damage which occur after our sale and are not our responsibility. Since determining proper responsibility requires local inspection, our warranty (set forth below) extends only to our direct buyers; distributors are best equipped to obtain the facts underlying claims, to place responsibility where it belongs and to recommend/handle repair or replacement.

American-Standard warrants only to its distributors and other direct Buyers that it will furnish by freight a replacement for, or at its option repair, any product of its manufacture or part or portion thereof, proved to its satisfaction to be defective in material or workmanship under normal use and service within one year after installation.

THERE IS NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING NO IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY FOR FITNESS FOR A PARTICULAR PURPOSE AND AMERICAN-STANDARD WILL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER NOR FOR LABOR OR TRANSPORTATION EXPENSES RELATING TO SUCH REPLACEMENT OR SUCH REPAIR, NOR WILL IT BE HELD RESPONSIBLE FOR WARRANTY ADJUSTMENTS COSTING MORE THAN THE PRICE OF THE PRODUCT TO ITS DISTRIBUTORS AND OTHER DIRECT BUYERS.

Goods of other manufacturers sold by American-Standard are not warranted unless accompanied by an express written warranty, but the Seller will endeavor to secure for its direct Buyers the benefits of warranties extended by such other manufacturers for such goods.

American-Standard is proud of its record for product quality and for fairness in handling warranty matters; and, if an ultimate user of our products should feel our warranty system described above does not work fairly in his case, he should write the Office of the President, Director of Consumer Affairs, U. S. Plumbing/Heating, American-Standard, 40 West 40th Street, New York, N. Y. 10018.

DEALER'S NAME: _____

ADDRESS: _____

TELEPHONE NO.: _____

DATE OF INSTALLATION: _____

AMERICAN STANDARD

PLUMBING & HEATING

P. O. BOX 2003

NEW BRUNSWICK, N.J. 08903