



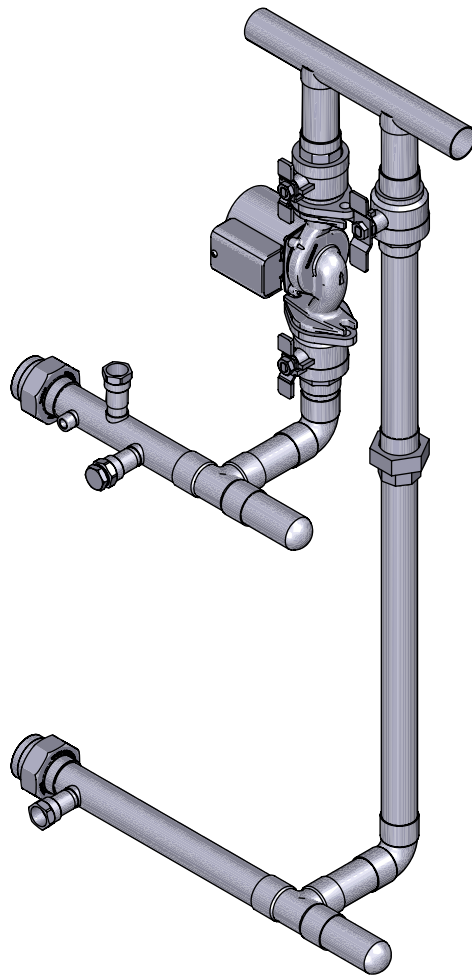
WEIL-McLAIN[®]

Evergreen[®]

Gas-fired water boilers

Evergreen Easy-Up Manifold Instructions

Kit Part Number 383-900-125 & 383-900-126



WARNING

This document must only be used by a qualified heating installer/service technician. Read all instructions and the Boiler Manual before installing. Perform steps in the order given. Failure to comply could result in severe personal injury, death, or substantial property damage.

NOTICE

Installation must comply with local requirements and with the National Fuel Gas Code, ANSI Z223.1/NFPA 54 - latest edition for U.S. installations or Canadian installations must comply with the Natural Gas and Propane Installation Code, CAN/CSA B149.1 or B149.2 Installation Codes.

NOTICE

This kit is designed to ensure proper flow through the Evergreen boiler when used in primary-secondary piping applications. Refer to the Evergreen Boiler Manual and local codes for additional piping requirements.



Please read before proceeding

Installer

- ⚠ WARNING** Read all instructions before installing. Follow all instructions in proper order to prevent personal injury or death.
- This document is intended only as an instruction to the Evergreen Boiler Manual. It's purpose is for the installation of Easy-Up piping for the boiler.
 - **Easy-Up Manifolds should not be used for Multi-Boiler systems.**

User

- This document is for use only by your qualified heating installer/service technician.
- Please refer to the User's Information Manual for your reference.
- Keep this instruction near the boiler for use by your installer or technician.

⚠ WARNING

To avoid water damage or scalding due to relief valve operation:

- Discharge line must be connected to relief valve outlet and **run to a safe place of disposal**. Terminate the discharge line to eliminate possibility of severe burns should the valve discharge.
- Discharge line must be as short as possible and be the **same size as the valve discharge connection** throughout its entire length.
- Discharge line must **pitch downward** from the valve and terminate at least 6" above the floor drain where any discharge will be clearly visible.
- The discharge line shall **terminate plain, not threaded**, with a material serviceable for temperatures of 375°F or greater.
- **Do not pipe the discharge to any place where freezing could occur.**
- **No shutoff valve** shall be installed between the relief valve and boiler, or in the discharge line. Do not plug or place any obstruction in the discharge line.
- **Failure to comply** with the above guidelines could result in failure of the relief valve to operate, resulting in possibility of severe personal injury, death or substantial property damage.
- **Test the operation of the valve** after filling and pressurizing system by lifting the lever. Make sure the valve discharges freely. If the valve fails to operate correctly, replace it with a new relief valve.

Hazard definitions

The following defined terms are used throughout this instruction to bring attention to the presence of hazards of various risk levels, or to important information concerning the life of the product.

⚠ WARNING Indicates presence of hazards that can cause severe personal injury, death, or substantial property damage.

NOTICE Indicates special instructions on installation, operation, or maintenance that are important, but not related to personal injury or property damage.

Verify kit contents:

Kit Part Number 383-900-125

Part No.	Description	Qty
----	Easy-Up 1-1/4" Manifold 70-220	1
550-100-555	Instruction Easy-Up Manifold	1
0010-025RP (70-155)	Taco Pump Internal Flow Check	1
0012-021RP (220 Only)	Taco Pump Internal Flow Check	1
---- (220 Only)	Bell Reducer 1-1/2" to 1-1/4"	2
---- (220 Only)	1-1/4" x 3" Nipple	2
--- (70, 110, & 155)	1-1/4" to 1" Hex Bushing	2

Kit Part Number 383-900-126

Part No.	Description	Qty
----	Easy-Up 1-1/2" Manifold 299-399	1
550-100-555	Instruction Easy-Up Manifold	1
0012-021RP	Taco Pump Internal Flow Check	1
----	Reducer Bushing 2" to 1-1/2"	2

**STOP! Read before proceeding:**

WARNING These instructions must only be used by a qualified, installer/service technician. Read completely before beginning the replacement. Failure to follow all instructions can cause severe personal injury, death, or substantial property damage.

Manifold instructions:

1. Remove the Easy-Up Manifold from packaging and verify contents.
2. Turn off and disconnect power from source.
3. Prepare boiler location according to the manual.
4. Prepare boiler according to the manual.
5. Separate bottom half of dielectric unions and reducer bushings (if included) from manifold.
6. For Evergreen 220 only, install bell reducer, nipple, and male side of dielectric union on to boiler supply and boiler return connections.
7. For Evergreen 70, 110, and 155 only, hex bushing, and male side of dielectric union on to boiler supply and boiler return connections.

NOTICE Use appropriate thread sealant on connections to the boiler, the union side of the dielectric union does not require thread sealant.

WARNING Use two (2) wrenches when tightening water piping at boiler, using one of the wrenches to prevent the boiler's interior piping from turning. Failure to support the boiler piping connections to prevent them from turning could cause damage to boiler components.

8. Take the boiler supply piece of the Easy-Up Manifold and connect the dielectric union on the boiler supply. Ensuring that the rubber washer is in place, hand tighten the union.

WARNING Failure to install safety relief valve can cause severe personal injury, death or substantial property damage.

9. Install safety relief valve included with boiler.
10. Install boiler circulator (**install the internal flow check, IFC, into the pump outlet before installing pump in manifold**).
11. Assemble the upper and lower sections of the boiler return pieces together, of the Easy-Up Manifold.
12. Install the boiler return piece of the Easy-Up Manifold and connect the dielectric union on the boiler return outlet. Ensuring that the rubber washer is in place, hand tighten the union.
13. Connect the boiler supply piece and the circulator ensuring that the top pump seal is in place.
14. Tighten both supply and return dielectric unions, be sure to use a back up wrench for support.

Easy-Up Manifold is now installed and ready to connect to system piping.

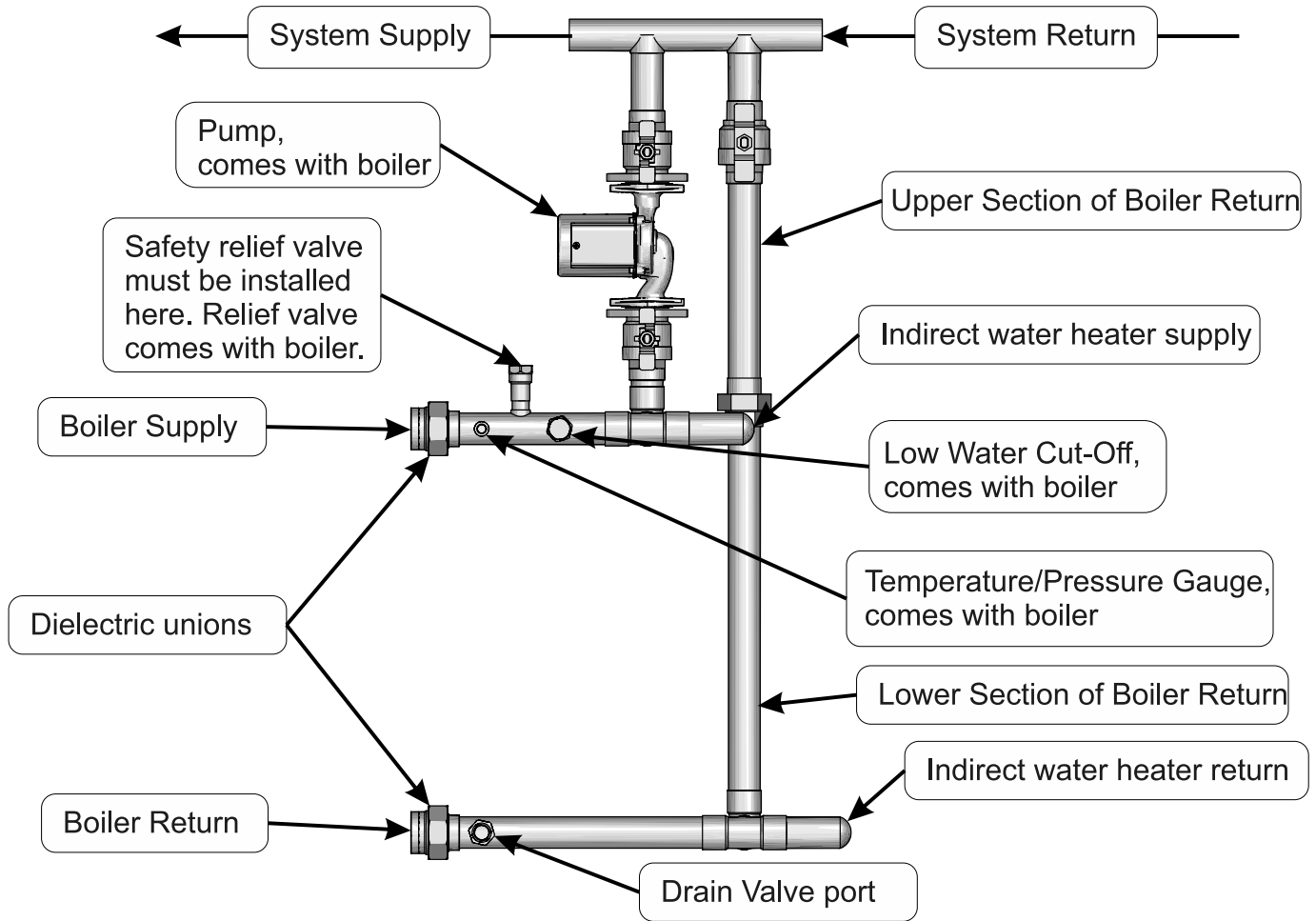
NOTICE Additional 3/4" and 1/4" ports have been included in the Easy-Up Manifold for fitting a Low Water Cut-Off device (LWCO) and a Pressure/Temperature Gauge, respectively (shipped with boiler).

Additional setup notes for indirect-fired water heater installations:

If boiler is to be used for indirect-fired water heater installations, supply and return connections can be made by using a pipe cutter to remove the spun down ends (see image) and installing a coupling to connect to indirect tank piping. When cutting the ends, be sure to leave enough material to properly sweat a coupling.



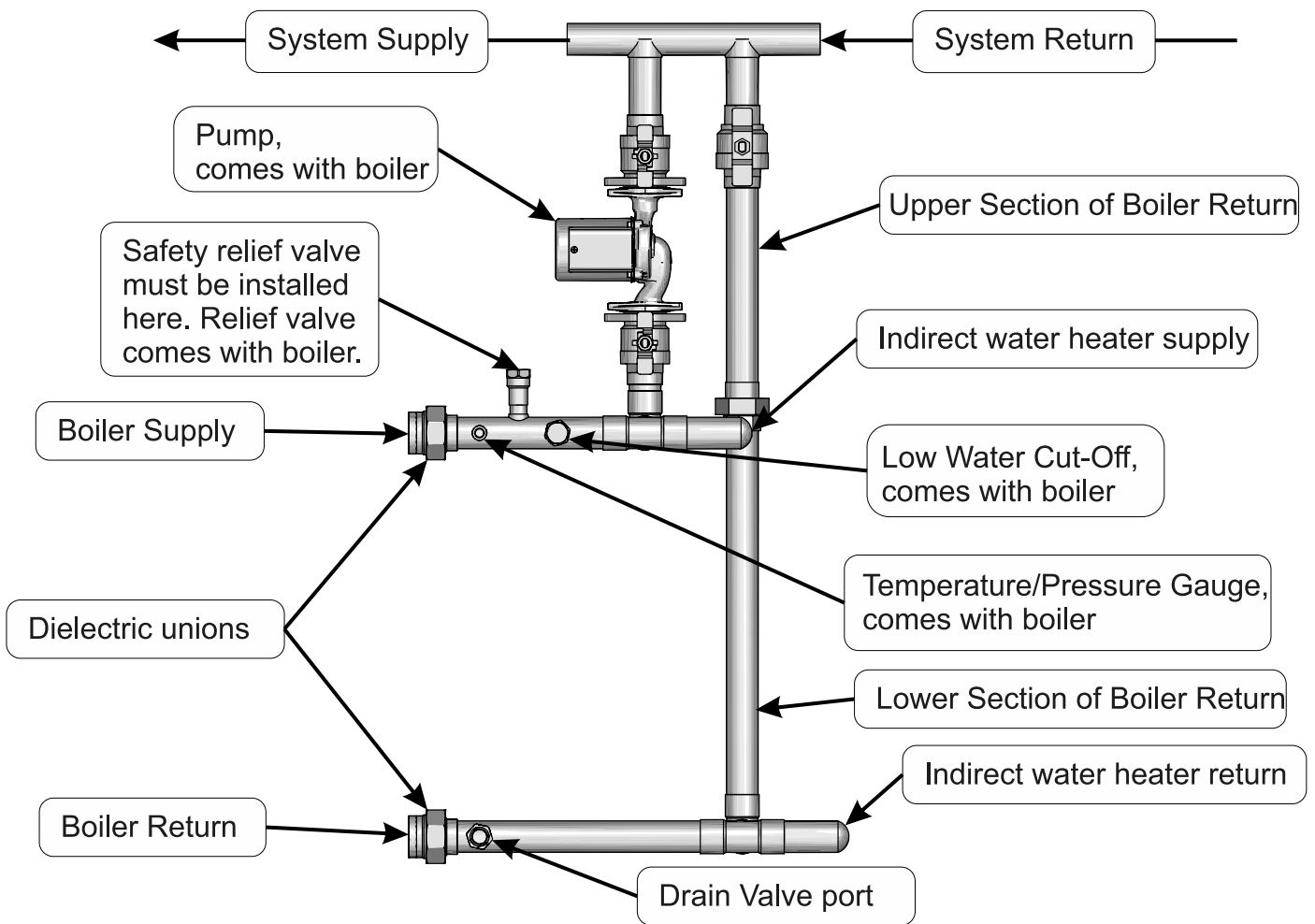
Evergreen Easy-Up Manifold 1-1/4 Inch
Part Number 383-900-125 Evergreen 70-220





NOTICE Weil-McLain recommends a 2” system piping on the 299 and 399 models to minimize the pressure drop through the system. The manifold is 1-1/2” in diameter and continuing the system piping in this size will increase the pressure drop through the system. If the pressure drop increases due to restrictive pipe I.D., the system temperature drop could increase (creating flow, equipment and comfort issues). Reducer couplings 2” x 1-1/2” are included with the manifold to adapt for the larger system piping when necessary.

**Evergreen Easy-Up Manifold 1-1/2 Inch
Part Number 383-900-126 Evergreen 299-399**





▲WARNING Failure to properly check for leaks can cause severe personal injury, death, or substantial property damage.



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