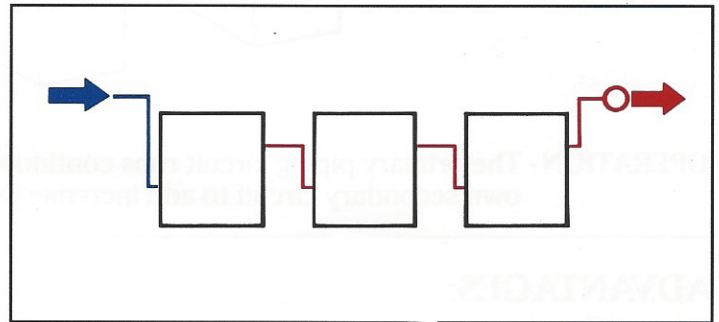


Near-Boiler Piping Can Make Or Break A Multiple Boiler Installation

With multiple boilers, near-boiler piping can significantly effect system operating efficiency, installation cost and maintenance. Consider the disadvantages of three typical multiple boiler piping systems.

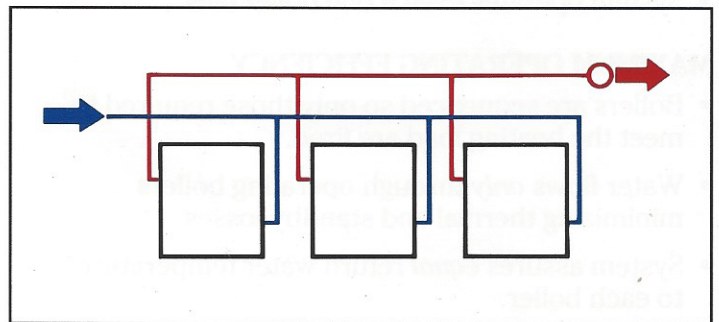
Series Piping

- **Extremely inefficient** -- water flows through non-operating boilers resulting in high thermal and standby losses.
- Entire system can shut down if one component fails.



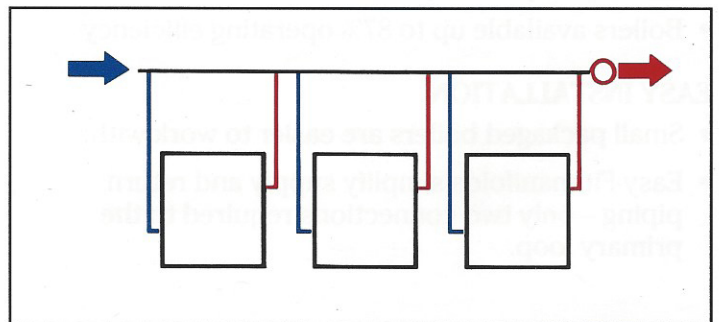
Parallel Piping

- **Inefficient** -- some water flows through non-operating boilers resulting in high thermal and standby losses.
- Difficult to provide *automatic* isolation of non-operating boilers.
- Entire system can shut down if one component fails.



Primary-Secondary Piping

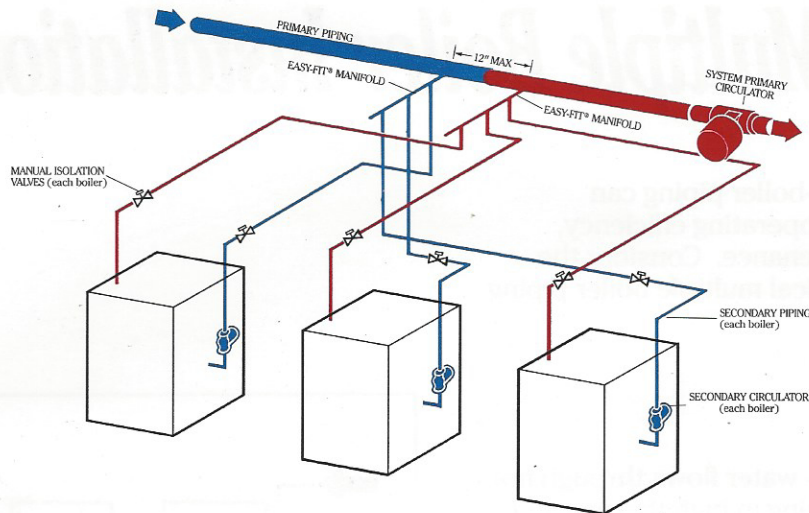
- **More efficient** -- but return water temperature is not the same to all boilers. Last boiler is less efficient than the first.
- Time-consuming and costly to install--requires two connections from each boiler to the main, resulting in extensive fitting and thread cutting of large-diameter pipe.



Weil-McLain's Easy-Fit® piping system overcomes all of these disadvantages. It provides optimum efficiency and it's easier to install and service.

WEIL-McLAIN

The Weil-McLain Easy-Fit[®] Primary-Secondary Piping System



OPERATION - The primary piping circuit runs continuously to supply heat to the radiation; each boiler has its own secondary circuit to add incremental amounts of heat to the primary circuit as required.

ADVANTAGES:

RELIABILITY

- System operates even if one boiler fails.

MAXIMUM OPERATING EFFICIENCY

- Boilers are sequenced so only those required to meet the heating load are fired.
- Water flows *only* through operating boilers minimizing thermal and standby losses.
- System assures *equal* return water temperature to each boiler.
- Non-operating boilers are automatically isolated from the system.
- Boilers available up to 87% operating efficiency.

EASY INSTALLATION

- Small packaged boilers are easier to work with.
- Easy-Fit manifolds simplify supply and return piping – only two connections required to the primary loop.

- Small diameter pipe or copper tubing used to connect boilers to manifolds.

- Flexibility in locating boilers – less headroom needed.

EASY SERVICE

- Uses standard, readily available residential boiler parts.
- With manual isolation valves, the system does not have to be shut down to service one boiler.

OTHER ADVANTAGES:

- New, easy-to-understand, simple-to-connect Weil-McLain control systems assure proper boiler sequencing and maximize the benefits of multiple systems.
- Easy to add additional boilers to the system if heating requirements increase.
- Ideal for penthouse installation – less weight than one large boiler.
- Ideal for zoning, service water applications, heat pump installations, fan coil units or radiant panel systems.

WEIL-McLAIN

Michigan City, Indiana 46360

www.weil-mclain.com

