



Heat-flo

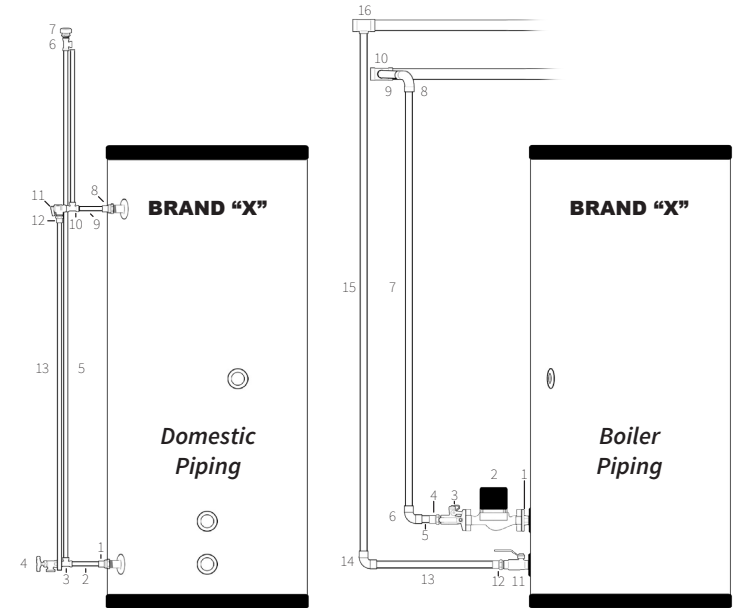
INDIRECT WATER HEATER PIPING COMPARISON EXAMPLE

ASSUMPTIONS:

- The installation is a typical residential installation in a basement. The installing contractor does not want to get on his hands and knees and connect piping to fittings that are low on the tank and does not want to run piping along the floor. The domestic cold and hot water are piped to floor joints that are 78" off the floor.
- The boiler supply and return headers are 66" and 72" off the floor, either hanging from the floor joists or mounted on the wall behind the equipment.
- The top-connect unit is a Heat-flo indirect with easy-to-install piping on top. The T&P valve and the drain valve are both factory-installed.
- The side-connect unit is typical of most side-connect units with fittings low on the tank that require T&P and drain valves to be installed with extra "do-it-yourself" parts.
- Installing a Heat-flo unit vs. a typical side-connect unit saves \$167.63 on material costs. In addition, the top-connect unit requires 25% less threaded joints, solder joints, and tube cuts.

INDIRECT WATER HEATER PIPING COMPARISON: 80-GALLON

SAVE OVER \$167 ON MATERIALS AND AT LEAST 25% ON LABOR!



Heat-flo HF-80 Indirect Water Heater

COLD PIPING			QTY	COST
1	1" Female Adapter	1	1	\$10.91
2	1" Cu Tubing L	24"	1	\$13.00
3	Drain Valve (Factory-Installed)	1	1	\$0.00
4	1" Cu Tee (C X F X C)	1	1	\$11.24
5	Watts LFN36M1 1/2" Vacuum Relief	1	1	\$21.55
HOT PIPING			QTY	COST
6	1" Female Adapter	1	1	\$10.91
7	1" Cu Tubing L	24"	1	\$13.00
T&P VALVE PIPING			QTY	COST
8	T&P Valve (Factory-Installed)	1	1	\$0.00
9	3/4" Male Adapter	1	1	\$4.89
10	3/4" Cu Tubing M	14"	1	\$3.91
11	3/4" 90 Deg. Elbow	1	1	\$3.74
12	3/4" Cu Tubing M	48"	1	\$13.40

SUPPLY PIPING			QTY	COST
1	Taco 110-252F 1" Flange	0.5	1	\$8.60
2	Pump, Taco 007-F5-71FC	1	1	\$134.02
3	Shutoff w/ Purge, Webstone 50414	1	1	\$89.25
4	1" Male Adapter	1	1	\$9.81
5	1" Cu Tubing M	4.5"	1	\$1.89
6	1" 90 Deg. Elbow	1	1	\$7.50
7	1" Cu Tubing M	16"	1	\$6.72
8	1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	1	\$20.30
RETURN PIPING			QTY	COST
9	Shutoff Valve, 1" IPS, Wat LFFBV-3C	1	1	\$24.06
10	1" Male Adapter	1	1	\$9.81
11	1" Cu Tubing M	12"	1	\$5.04
12	1" 90 Deg. Elbow	1	1	\$7.50
13	1" Cu Tubing M	10"	1	\$4.20
14	1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	1	\$20.30

Total Cost \$106.55

Total Cost \$349.00

TOTAL MATERIAL COST
\$455.55

Typical Side-Connect Indirect Water Heater

COLD PIPING			QTY	COST
1	1CX1-1/2 F Female adapter	1	1	\$35.07
2	1" Cu Tubing L	3"	1	\$1.26
3	1" Cu Tee (C X F X C)	1	1	\$20.66
4	Drain Valve	1	1	\$9.74
5	1" Cu Tubing L	71.25"	1	\$29.93
6	1" Cu Tee (C X F X C)	1	1	\$20.66
7	Watts LFN36M1 1/2" Vacuum Relief	1	1	\$21.55
HOT PIPING			QTY	COST
8	1CX 1-1/2 F Female Adapter	1	1	\$10.91
9	1" Cu Tubing*	3"	1	\$1.26
10	1" Cu Tee (C X F X C)	1	1	\$20.66
11	1" Cu Tubing*	13.25"	1	\$7.18
T&P VALVE PIPING			QTY	COST
12	T&P Valve (Watts 100XL8)	1	1	\$32.04
13	3/4" Male Adapter	1	1	\$4.89
14	3/4" Cu Tubing*	58.75"	1	\$20.21

SUPPLY PIPING			QTY	COST
1	Taco 110-252F 1" Flange	0.5	1	\$8.60
2	Pump, Taco 007-F5-71FC	1	1	\$134.02
3	Shutoff w/ Purge, Webstone 50414	1	1	\$89.25
4	1" Male Adapter	1	1	\$9.81
5	1" Cu Tubing M	3"	1	\$1.26
6	1" 90 Deg. Elbow	1	1	\$7.50
7	1" Cu Tubing M	36"	1	\$15.12
8	1" 90 Deg. Elbow	1	1	\$7.50
9	1" Cu Tubing M	8"	1	\$3.36
10	1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	1	\$20.30
RETURN PIPING			QTY	COST
11	Shutoff Valve, 1" IPS, Wat LFFBV-3C	1	1	\$24.06
12	1" Male Adapter	1	1	\$9.81
13	1" Cu Tubing M	3"	1	\$1.26
14	1" 90 Deg. Elbow	1	1	\$7.50
15	1" Cu Tubing M	65.5"	1	\$27.51
16	1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	1	\$20.30

Total Cost \$236.02

Total Cost \$387.16

TOTAL MATERIAL COST
\$623.18

NOTE: Material costs are typical contractor prices as of Mar, 2023. Pricing based on press fittings.

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PIPING COMPARISON_80-427 REV F

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INDIRECT WATER HEATER PIPING COMPARISON EXAMPLE

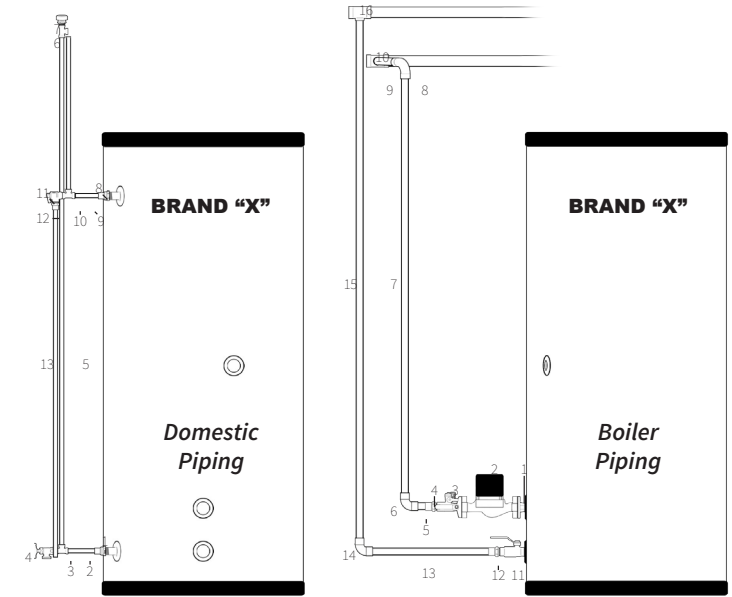
ASSUMPTIONS:

- The installation is a typical residential installation in a basement. The installing contractor does not want to get on his hands and knees and connect piping to fittings that are low on the tank and does not want to run piping along the floor. The domestic cold and hot water are piped to floor joints that are 78" off the floor.
- The boiler supply and return headers are 66" and 72" off the floor, either hanging from the floor joists or mounted on the wall behind the equipment.
- The top-connect unit is a Heat-flo indirect with easy-to-install piping on top. The T&P valve and the drain valve are both factory-installed.
- The side-connect unit is typical of most side-connect units with fittings low on the tank that require T&P and drain valves to be installed with extra "do-it-yourself" parts.
- Installing a Heat-flo unit vs. a typical side-connect unit saves **\$112.35 on material costs. In addition, the top-connect unit requires 25% less threaded joints, solder joints, and tube cuts.**

NOTE: Material costs are typical contractor prices as of Mar, 2023. Pricing based on press fittings.

INDIRECT WATER HEATER PIPING COMPARISON: 40-GALLON

SAVE OVER \$110 ON MATERIALS AND AT LEAST 25% ON LABOR!



Heat-flo HF-40 Indirect Water Heater

COLD PIPING			HOT PIPING				
	QTY	COST		QTY	COST		
1	3/4" Female Adapter	1	\$5.69	6	3/4" Female Adapter	1	\$5.69
2	3/4" Cu Tubing L	34"	\$11.73	7	3/4" Cu Tubing L	34"	\$11.73
3	Drain Valve (Factory-Installed)	1	\$0.00	8	T&P Valve (Factory-Installed)	1	\$0.00
4	3/4" Cu Tee (C X F X C)	1	\$11.24	9	3/4" Male Adapter	1	\$4.89
5	Watts 1/2" Vacuum Relief	1	\$21.55	10	3/4" Cu Tubing M	11"	\$3.07
T&P VALVE PIPING			T&P VALVE PIPING				
	QTY	COST		QTY	COST		
11	3/4" 90 Deg. Elbow	1	\$3.74	11	3/4" 90 Deg. Elbow	1	\$3.74
12	3/4" Cu Tubing M	38"	\$10.61	12	3/4" Cu Tubing M	38"	\$10.61

SUPPLY PIPING			RETURN PIPING				
	QTY	COST		QTY	COST		
1	Taco 110-252F 1" Flange	0.5	\$8.60	9	Shutoff Valve, 1" IPS, Wat LFFBV-3C	1	\$24.06
2	Pump, Taco 007-F5-71FC	1	\$134.02	10	1" Male Adapter	1	\$9.81
3	Shutoff w/ Purge, Webstone 50414	1	\$89.25	11	1" Cu Tubing**	28"	\$11.76
4	1" Male Adapter	1	\$9.81	12	1" 90 Deg. Elbow	1	\$7.50
5	1" Cu Tubing**	14.5"	\$6.09	13	1" Cu Tubing**	12"	\$5.04
6	1" 90 Deg. Elbow	1	\$7.50	14	1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$20.30
7	1" Cu Tubing**	16"	\$6.72				
8	1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$20.30				

Total Cost \$89.94

Total Cost \$360.76

TOTAL MATERIAL COST \$450.70

Typical Side-Connect Indirect Water Heater

COLD PIPING			HOT PIPING				
	QTY	COST		QTY	COST		
1	3/4" Female Adapter	1	\$5.69	8	3/4" Female Adapter	1	\$5.69
2	3/4" Cu Tubing L	3"	\$1.03	9	3/4" Cu Tubing L	3"	\$1.03
3	3/4" Cu Tee (C X F X C)	1	\$11.24	10	3/4" Cu Tee (C X F X C)	1	\$11.24
4	Drain Valve	1	\$9.74	11	3/4" Cu Tubing L	32"	\$11.04
5	3/4" Cu Tubing L	72"	\$24.84	12	T&P Valve (Watts 100XL8)	1	\$32.04
6	3/4" Cu Tee (C X F X C)	1	\$11.24	13	3/4" Male Adapter	1	\$4.89
7	Watts 1/2" Vacuum Relief	1	\$21.55	14	3/4" Cu Tubing L	40"	\$13.82
T&P VALVE PIPING			T&P VALVE PIPING				
	QTY	COST		QTY	COST		

SUPPLY PIPING			RETURN PIPING				
	QTY	COST		QTY	COST		
1	Taco 110-252F 1" Flange	0.5	\$8.60	11	Shutoff Valve, 1" IPS, Wat LFFBV-3C	1	\$24.06
2	Pump, Taco 007-F5-71FC	1	\$134.02	12	1" Male Adapter	1	\$9.81
3	Shutoff w/ Purge, Webstone 50414	1	\$89.25	13	1" Cu Tubing M	3"	\$1.26
4	1" Male Adapter	1	\$9.81	14	1" 90 Deg. Elbow	1	\$7.50
5	1" Cu Tubing M	3"	\$1.26	15	1" Cu Tubing M	72.25"	\$30.34
6	1" 90 Deg. Elbow	1	\$7.50	16	1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$20.30
7	1" Cu Tubing M	55"	\$23.10				
8	1" 90 Deg. Elbow	1	\$7.50				
9	1" Cu Tubing M	8"	\$3.36				
10	1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$20.30				

Total Cost \$165.08

Total Cost \$397.97

TOTAL MATERIAL COST \$563.05

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