



# INDIRECT WATER HEATER PIPING COMPARISON: 80-GALLON

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

### 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.

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



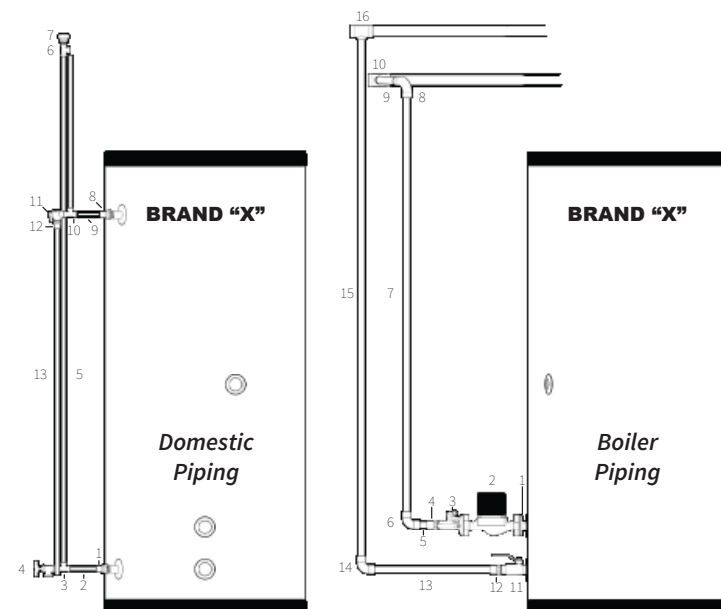
#### Heat-flo HF-80 Indirect Water Heater

COLD PIPING				QTY	COST	SUPPLY PIPING				QTY	COST
1	1" Female Adapter		1	\$10.91	1	Taco 110-252F 1" Flange		0.5	\$8.60		
2	1" Cu Tubing L		24"	\$13.00	2	Pump, Taco 007-F5-71FC		1	\$134.02		
3	Drain Valve (Factory-Installed)		1	\$0.00	3	Shutoff w/ Purge, Webstone 50414		1	\$89.25		
4	1" Cu Tee (C X F X C)		1	\$11.24	4	1" Male Adapter		1	\$9.81		
5	Watts LFN36M1 1/2" Vacuum Relief		1	\$21.55	5	1" Cu Tubing M		4.5"	\$1.89		
HOT PIPING				QTY	COST	6	1" 90 Deg. Elbow		1	\$7.50	
6	1" Female Adapter		1	\$10.91	7	1" Cu Tubing M		16"	\$6.72		
7	1" Cu Tubing L		24"	\$13.00	8	1-1/4" X 1-1/4" X 1" Tee (C X C X C)		1	\$20.30		
T&P VALVE PIPING				QTY	COST	RETURN PIPING				QTY	COST
8	T&P Valve (Factory-Installed)		1	\$0.00	9	Shutoff Valve, 1" IPS, Wat LFFBV-3C		1	\$24.06		
9	3/4" Male Adapter		1	\$4.89	10	1" Male Adapter		1	\$9.81		
10	3/4" Cu Tubing M		14"	\$3.91	11	1" Cu Tubing M		12"	\$5.04		
11	3/4" 90 Deg. Elbow		1	\$3.74	12	1" 90 Deg. Elbow		1	\$7.50		
12	3/4" Cu Tubing M		48"	\$13.40	13	1" Cu Tubing M		10"	\$4.20		
					14	1-1/4" X 1-1/4" X 1" Tee (C X C X C)		1	\$20.30		

Total Cost \$106.55

**TOTAL MATERIAL COST**  
**\$455.55**

Total Cost \$349.00



#### Typical Side-Connect Indirect Water Heater

COLD PIPING				QTY	COST	SUPPLY PIPING				QTY	COST
1	1CX1-1/2 F Female adapter		1	\$35.07	1	Taco 110-252F 1" Flange		0.5	\$8.60		
2	1" Cu Tubing L		3"	\$1.26	2	Pump, Taco 007-F5-71FC		1	\$134.02		
3	1" Cu Tee (C X F X C)		1	\$20.66	3	Shutoff w/ Purge, Webstone 50414		1	\$89.25		
4	Drain Valve		1	\$9.74	4	1" Male Adapter		1	\$9.81		
5	1" Cu Tubing L		71.25"	\$29.93	5	1" Cu Tubing M		3"	\$1.26		
6	1" Cu Tee (C X F X C)		1	\$20.66	6	1" 90 Deg. Elbow		1	\$7.50		
7	Watts LFN36M1 1/2" Vacuum Relief		1	\$21.55	7	1" Cu Tubing M		36"	\$15.12		
HOT PIPING				QTY	COST	8 <td>1" 90 Deg. Elbow</td> <td></td> <td>1</td> <td>\$7.50</td>	1" 90 Deg. Elbow		1	\$7.50	
8	1CX1-1/2 F Female Adapter		1	\$10.91	9	1" Cu Tubing M		8"	\$3.36		
9	1" Cu Tubing*		3"	\$1.26	10	1-1/4" X 1-1/4" X 1" Tee (C X C X C)		1	\$20.30		
10	1" Cu Tee (C X F X C)		1	\$20.66	RETURN PIPING				QTY	COST	
11	1" Cu Tubing*		13.25"	\$7.18	11	Shutoff Valve, 1" IPS, Wat LFFBV-3C		1	\$24.06		
T&P VALVE PIPING				QTY	COST	12	1" Male Adapter		1	\$9.81	
12	T&P Valve (Watts 100XL8)		1	\$32.04	13	1" Cu Tubing M		3"	\$1.26		
13	3/4" Male Adapter		1	\$4.89	14	1" 90 Deg. Elbow		1	\$7.50		
14	3/4" Cu Tubing*		58.75"	\$20.21	15	1" Cu Tubing M		65.5"	\$27.51		
					16	1-1/4" X 1-1/4" X 1" Tee (C X C X C)		1	\$20.30		

Total Cost \$236.02

**TOTAL MATERIAL COST**  
**\$623.18**

Total Cost \$387.16

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# Heat-flo

## INDIRECT WATER HEATER PIPING COMPARISON EXAMPLE

### ASSUMPTIONS:

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- 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.



### Heat-flo HF-40 Indirect Water Heater

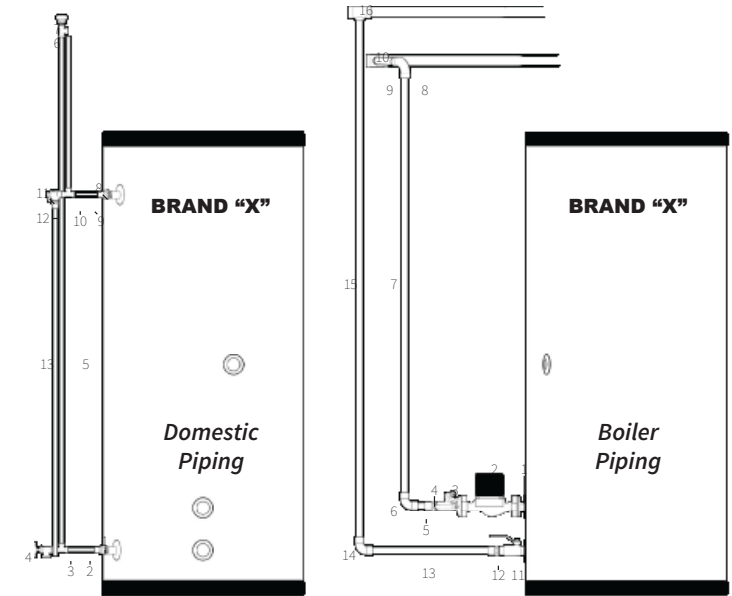
COLD PIPING		QTY	COST
1	3/4" Female Adapter	1	\$5.69
2	3/4" Cu Tubing L	34"	\$11.73
3	Drain Valve (Factory-Installed)	1	\$0.00
4	3/4" Cu Tee (C X F X C)	1	\$11.24
5	Watts 1/2" Vacuum Relief	1	\$21.55
HOT PIPING		QTY	COST
6	3/4" Female Adapter	1	\$5.69
7	3/4" Cu Tubing L	34"	\$11.73
T&P VALVE PIPING	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

Total Cost \$89.94

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

Total Cost \$360.76

**TOTAL MATERIAL COST  
\$450.70**



### Typical Side-Connect Indirect Water Heater

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

Total Cost \$165.08

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

Total Cost \$397.97

**TOTAL MATERIAL COST  
\$563.05**

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