



Heat-flo

INDIRECT WATER HEATER PIPING COMPARISON: 40-GALLON SAVE OVER \$70 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 \$71.13 on material costs. In addition, the top-connect unit requires 25% less threaded joints, solder joints, and tube cuts.



Heat-flo HF-40 Indirect Water Heater

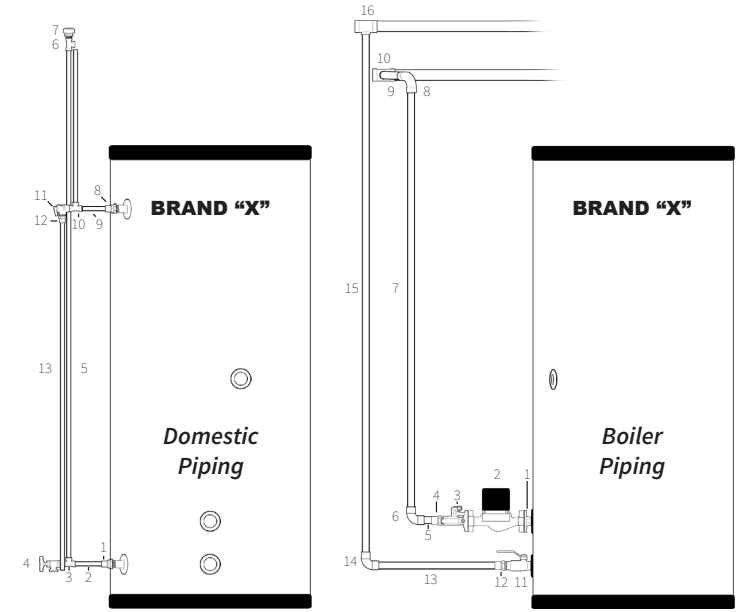
COLD PIPING	QTY	COST
3/4" Female Adapter	1	\$2.69
3/4" Cu Tubing*	34"	\$4.82
Drain Valve (Factory-Installed)	1	\$0.00
3/4" Cu Tee (C X F X C)	1	\$12.98
Watts 1/2" Vacuum Relief	1	\$14.60
HOT PIPING	QTY	COST
3/4" Female Adapter	1	\$2.69
3/4" Cu Tubing*	34"	\$4.82
T&P VALVE PIPING	QTY	COST
T&P Valve (Factory-Installed)	1	\$0.00
3/4" Male Adapter	1	\$2.07
3/4" Cu Tubing**	11"	\$1.56
3/4" 90 Deg. Elbow	1	\$1.32
3/4" Cu Tubing**	38"	\$5.38

Total Cost \$52.93

**TOTAL MATERIAL COST
\$269.87**

SUPPLY PIPING	QTY	COST
Taco 110-252F 1" Flange	0.5	\$5.68
Pump, Taco 007-F5-71FC	1	\$96.52
Shutoff w/ Purge, Webstone 50414	1	\$46.60
1" Male Adapter	1	\$5.29
1" Cu Tubing**	14.5"	\$2.28
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	16"	\$2.52
1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$11.67
RETURN PIPING	QTY	COST
Shutoff Valve, 1" IPS, Wat LFFBV-3C	1	\$16.64
1" Male Adapter	1	\$5.29
1" Cu Tubing**	28"	\$4.41
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	12"	\$1.89
1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$11.67

Total Cost \$216.94



Typical Side-Connect Indirect Water Heater

COLD PIPING	QTY	COST
3/4" Female Adapter	1	\$2.69
3/4" Cu Tubing*	3"	\$0.43
3/4" Cu Tee (C X F X C)	1	\$12.98
Drain Valve	1	\$6.28
3/4" Cu Tubing*	72"	\$10.20
3/4" Cu Tee (C X F X C)	1	\$12.98
Watts 1/2" Vacuum Relief	1	\$14.60
HOT PIPING	QTY	COST
3/4" Female Adapter	1	\$2.69
3/4" Cu Tubing*	3"	\$0.43
3/4" Cu Tee (C X F X C)	1	\$12.98
3/4" Cu Tubing*	32"	\$4.53
T&P VALVE PIPING	QTY	COST
T&P Valve (Watts 100XL8)	1	\$21.15
3/4" Male Adapter	1	\$2.07
3/4" Cu Tubing*	40"	\$5.67

Total Cost \$109.68

SUPPLY PIPING	QTY	COST
Taco 110-252F 1" Flange	0.5	\$5.68
Pump, Taco 007-F5-71FC	1	\$96.52
Shutoff w/ Purge, Webstone 50414	1	\$46.60
1" Male Adapter	1	\$5.29
1" Cu Tubing**	3"	\$0.47
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	55"	\$8.66
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	8"	\$1.26
1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$11.67
RETURN PIPING	QTY	COST
Shutoff Valve, 1" IPS, Wat LFFBV-3C	1	\$16.64
1" Male Adapter	1	\$5.29
1" Cu Tubing**	3"	\$0.47
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	72.25"	\$11.38
1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$11.67

Total Cost \$231.32

**TOTAL MATERIAL COST
\$341.00**

NOTE: Material costs are typical contractor prices as of Dec, 2019.

- * 3/4" Cu Tubing Type L @ \$1.70/ Ft
- 1" Cu Tubing Type L @ \$2.46/ Ft
- ** 1" Cu Tubing Type M @ \$1.89/ Ft

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INDIRECT WATER HEATER PIPING COMPARISON: 80-GALLON SAVE OVER \$180 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 \$181.55 on material costs. In addition, the top-connect unit requires 25% less threaded joints, solder joints, and tube cuts.



Heat-flo HF-80 Indirect Water Heater

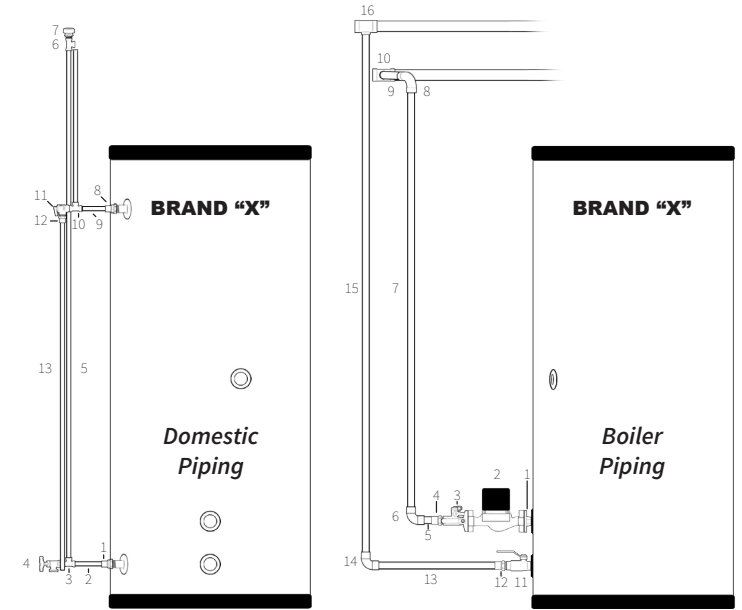
COLD PIPING	QTY	COST
1" Female Adapter	1	\$6.61
1" Cu Tubing**	24"	\$4.92
Drain Valve (Factory-Installed)	1	\$0.00
1" Cu Tee (C X F X C)	1	\$36.82
Watts LFN36M1 1/2" Vacuum Relief	1	\$14.60
HOT PIPING	QTY	COST
1" Female Adapter	1	\$6.61
1" Cu Tubing**	24"	\$4.92
T&P VALVE PIPING	QTY	COST
T&P Valve (Factory-Installed)	1	\$0.00
3/4" Male Adapter	1	\$2.07
3/4" Cu Tubing*	14"	\$1.98
3/4" 90 Deg. Elbow	1	\$1.32
3/4" Cu Tubing*	48"	\$6.80

Total Cost \$86.65

SUPPLY PIPING	QTY	COST
Taco 110-252F 1" Flange	0.5	\$5.68
Pump, Taco 007-F5-71FC	1	\$96.52
Shutoff w/ Purge, Webstone 50414	1	\$46.60
1" Male Adapter	1	\$5.29
1" Cu Tubing**	4.5"	\$0.71
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	16"	\$2.52
1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$11.67
RETURN PIPING	QTY	COST
Shutoff Valve, 1" IPS, Wat LFFBV-3C	1	\$16.64
1" Male Adapter	1	\$5.29
1" Cu Tubing**	12"	\$1.89
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	10"	\$1.58
1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$11.67

Total Cost \$212.54

**TOTAL MATERIAL COST
\$299.19**



Typical Side-Connect Indirect Water Heater

COLD PIPING	QTY	COST
1CX1-1/2 F Female adapter	1	\$36.25
1" Cu Tubing*	3"	\$0.62
1" Cu Tee (C X F X C)	1	\$36.82
Drain Valve	1	\$4.56
1" Cu Tubing*	71.25"	\$14.61
1" Cu Tee (C X F X C)	1	\$36.82
Watts LFN36M1 1/2" Vacuum Relief	1	\$14.60
HOT PIPING	QTY	COST
1CX 1-1/2 F Female Adapter	1	\$36.25
1" Cu Tubing*	3"	\$0.62
1" Cu Tee (C X F X C)	1	\$38.06
1" Cu Tubing*	13.25"	\$2.72
T&P VALVE PIPING	QTY	COST
T&P Valve (Watts 100XL8)	1	\$21.15
3/4" Male Adapter	1	\$2.07
3/4" Cu Tubing*	58.75"	\$8.32

Total Cost \$253.47

SUPPLY PIPING	QTY	COST
Taco 110-252F 1" Flange	0.5	\$5.68
Pump, Taco 007-F5-71FC	1	\$96.52
Shutoff w/ Purge, Webstone 50414	1	\$46.60
1" Male Adapter	1	\$5.29
1" Cu Tubing**	3"	\$0.47
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	36"	\$5.67
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	8"	\$1.26
1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$11.67
RETURN PIPING	QTY	COST
Shutoff Valve, 1" IPS, Wat LFFBV-3C	1	\$16.64
1" Male Adapter	1	\$5.29
1" Cu Tubing**	3"	\$0.47
1" 90 Deg. Elbow	1	\$3.24
1" Cu Tubing**	65.5"	\$10.32
1-1/4" X 1-1/4" X 1" Tee (C X C X C)	1	\$11.67

Total Cost \$227.27

**TOTAL MATERIAL COST
\$480.74**

NOTE: Material costs are typical contractor prices as of Dec, 2019.

- * 3/4" Cu Tubing Type L @ \$1.70/ Ft
- ** 1" Cu Tubing Type L @ \$2.46/ Ft
- ** 1" Cu Tubing Type M @ \$1.89/ Ft

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