



Dual PEX-Flex



*Pre-insulated flexible pipe
for outdoor wood furnaces*

What is PEX-Flex?

Dual PEX-Flex is a pre-insulated flexible pipe ideally suited for hydronic heating with outdoor wood furnaces. Supplied in coils, this 2-in-1 (supply and return bundled together) pipe system is economical, simple to install and highly effective even in harsh soil conditions.

Why use PEX-Flex?

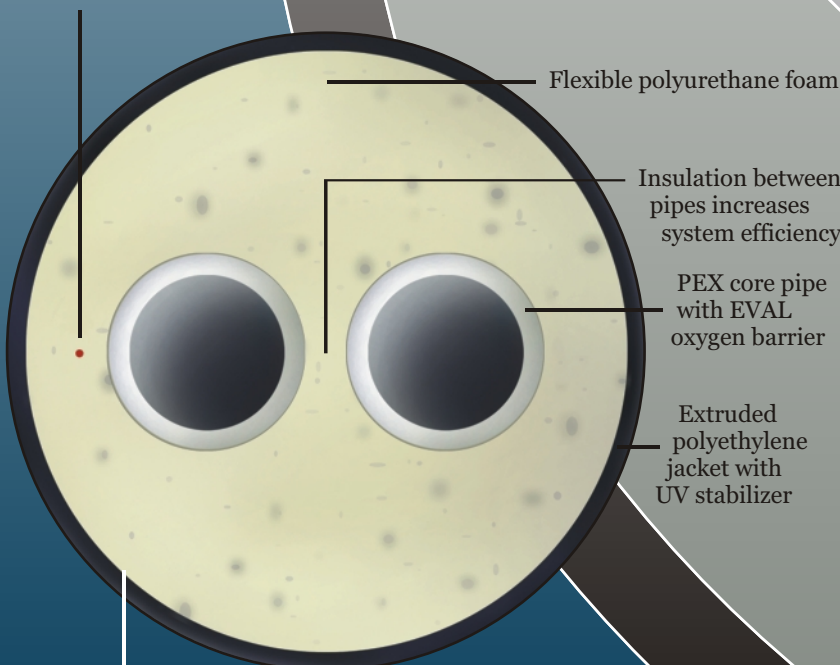
You have probably spent considerable time researching and comparing the heating unit that is right for your application. A professionally manufactured insulated pipe will maximize efficiency of your outdoor furnace system by keeping heat losses to a minimum. By effectively heating your house (not the ground), you will require less fuel, burn less wood and produce less emissions. Whatever your budget, you simply can't afford NOT to install PEX-Flex!

This premium product will pay for itself over a short period of time*. PEX-Flex incorporates an eco-friendly polyurethane foam - the best insulation available on the market today. And to keep this closed cell foam dry (critical in any insulation system), it has a thick extruded low-density polyethylene jacket ensuring lasting efficiency.

** Individual payback times will vary relative to the severity and length of the heating season.*



Supply pipe colour coded with red thread



Advantages of Logstor factory insulated dual PEX-Flex:

- The low thermal conductivity of polyurethane foam delivers very high insulating performance, saving you fuel and furnace loading time - this also allows for a smaller overall jacket size relative to other insulating materials.
- The entire system is made of plastic; there is nothing to corrode over time.
- PEX-Flex is "self-compensating" with respect to expansion and contraction... just uncoil and snake into trench, then backfill.
- Installs quickly and easily without solvent welding, special tools or heavy equipment - often resulting in a more economical installed cost when compared to other insulating methods.
- No drainage tile, gravel backfill or deep/wide trench required. PEX-Flex can be shallow buried even in high water table areas.
- Flexibility of coiled PEX-Flex often eliminates need for joints, elbows and fittings - plus custom 'cut-to-length' sections reduce waste.
- The PEX core pipes have a diffusion barrier made of EVAL, preventing oxygen from entering the system.
- "Smart" membrane under outer jacket to enhance and maintain insulation value.
- Ours is a bonded system, meaning the carrier pipes, insulation and jacket are mechanically linked to one another and move collectively during expansion / contraction.
- Lasts indefinitely, paying for itself many times over.



100 ft (33 m) x 4.9 in (125 mm) OD coil of dual PEX-Flex



Dual PEX-Flex dimensions

Nominal pipe size in (mm)	Carrier pipe OD in (mm)	Carrier pipe wall thickness in (mm)	Carrier pipe ID in (mm)	Jacket pipe OD in (mm)	Standard/max. coil lengths * ft (m)	Minimum bending radius ft (m)
2 x 1/2 (2 x 20)	2 x 0.79 (2 x 20)	0.079 (2)	0.632 (16)	3.5 (90)	164 / 984 (50 / 300)	3.0 (0.9)
2 x 3/4 (2 x 25)	2 x 0.98 (2 x 25)	0.098 (2.5)	0.784 (20)	4.3 (110)	164 / 656 (50 / 200)	3.5 (1.1)
2 x 1 (2 x 32)	2 x 1.26 (2 x 32)	0.114 (2.9)	1.032 (26.2)	4.3 (110)	164 / 656 (50 / 200)	3.5 (1.1)
2 x 1 1/4 (2 x 40)	2 x 1.57 (2 x 40)	0.145 (3.7)	1.280 (32.6)	4.9 (125)	164 / 656 (50 / 200)	4.0 (1.2)
2 x 1 1/2 (2 x 50)	2 x 1.97 (2 x 50)	0.181 (4.6)	1.608 (40.8)	6.3 (160)	164 / 328 (50 / 100)	5.2 (1.6)

PEX-Flex temperature and pressure

Pipe size in (mm)	Max. temperature Fahrenheit (Celsius)	Max. pressure P.S.I. (bar)
1/2- 1 1/2 (20 - 50)	203 (95)	87 (6)
1/2- 1 1/2 (20 - 50)	158 (70)	145 (10)

* Pipe can also be supplied to exact length required.
 * Single PEX-Flex (up to 4.3 in (110 mm) OD) also available.
 n.b.: All core pipe sizes are metric; metric compression x imperial NPT threaded adaptors are supplied as required.



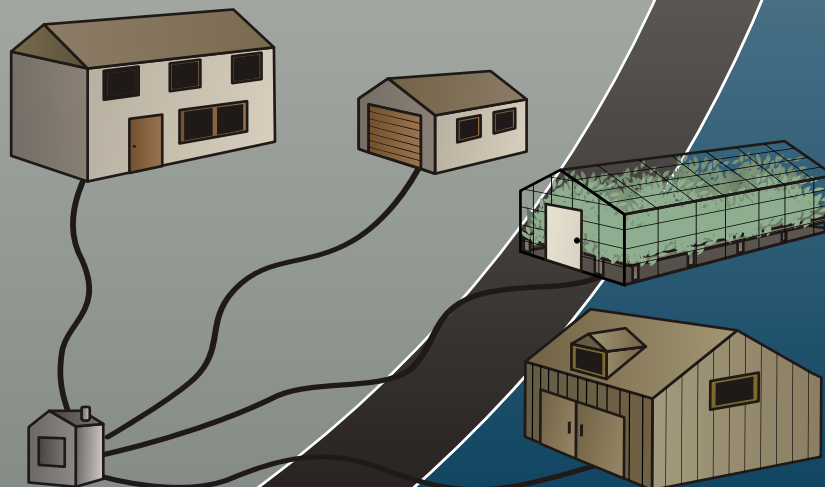
The payback:

Installing PEX-Flex actually pays for itself over time *, and you're also helping to do your part to reduce emissions.

The expected yearly savings is approximately 1 1/2 cords of wood based on the following assumptions:

- An average cord of wood yields 24 million BTU's (7MW/hr).
- The trench from the furnace to the building(s) is approximately 100 ft (30m) long.
- The payback is based on a comparison to bare or poorly insulated piping systems. These inferior systems may be the result of using materials with insufficient insulating properties, inadequate insulation thickness, or may simply be insulation that absorbed moisture due to water ingress through the jacket or joints.

* Individual payback times will vary relative to the severity and length of the heating season.



Dual PEX-Flex applications:

- homes
- barns
- workshops and garages
- cottages
- pools
- ice melting systems
- greenhouses



**Check out WebStaTech -
Our online calculation tool.**

Heat loss
Pipe length ft

This free web tool can help you design the ideal pre-insulated pipe system for your specific backyard furnace application. Calculate heat losses, compare insulation and pipe materials, determine energy savings and convert to dollars. Visit www.logstor.com/webstatech to register or contact any Urecon office.

Results

Jacket in

Heat transfer coefficient Btu/(ft hr°F)

Heat loss Btu/(hr ft)

Total heat loss Btu/hr

System parameters

Flow temp. °F Pair of pipes Double pipe Media

Return temp. °F Distance between pipes in Pipe material

Soil temp. °F Series

Soil cover in Dimension

Temperature drop with dual PEX-Flex

Using 2 x 1 in x 4.3 in OD (2 x 32 mm x 110 mm OD) with following operating parameters:

- Supply temperature: 180 °F (82 °C)
- Soil temperature: 32 °F (0 °C)

Flow		Distance	
GPM (US)	l/sec	100 ft (30 m)	150 ft (46 m)
3	0,19	178.5°F (81,4°C)	177.8°F (81,0°C)
5	0,32	179.1°F (81,7°C)	178.7°F (81,5°C)
10	0,63	179.5°F (81,9°C)	179.3°F (81,8°C)

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