

PEXa GEOTHERMAL SYSTEM

ENGINEERED VS. TRADITIONAL

System Component	PEXa System	Conventional System
Manifold vs. Header	<ul style="list-style-type: none"> - Easy-to-balance circuits - Easy-to-isolate circuits - Easy to purge circuits - Factory made - Above ground – easily accessed 	<ul style="list-style-type: none"> - Circuit Balance with U-Bend length - Circuit isolation not possible - Circuits all purged at once - Field made - Buried – poor access
PEXa vs. HDPE	<ul style="list-style-type: none"> - Over 10,000 hr slow crack growth resistance - Continuous pipe – no joints - 5x OD bending radius - Kink recovery - Native backfill can be used - Temperature operation up to 200°F 	<ul style="list-style-type: none"> - 200 hrs slow crack growth resistance - Joints throughout system (potential leaks) - 35x OD Bending radius - Kinks must be cut out - Sand must be imported - Temperature operation up to 140°F
System Configuration	<ul style="list-style-type: none"> - No fusion – lower installation skill level; fusion equipment cost not required - Ease of installation – weight on end of U-Bend - Up to 15% more energy extracted – 2x U-Bend; use of spacers - Lower drilling costs – 2x U-Bend 	<ul style="list-style-type: none"> - Fusion required – higher installation skill level; fusion equipment required - More difficult install – no weight on end of U-Bend - Less energy extracted – 1x U-Bend; no pipe spacers available - Higher drilling costs – 1x U-Bend