

# TWISTER™

SAVE TIME, MONEY & SPACE



## TWISTER™ Geothermal Heat Exchanger Technology

PROVEN TECHNOLOGY WITH A POWERFUL “TWIST”

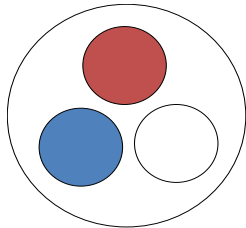
- Highest efficiency heat exchange means less drilling and lower operating cost.
- Supplied on coils, manifolded and ready to connect.
- Installs like a standard Ubend.
- Centralized grouting conduit for the most reliable, easiest and quickest grouting process.

# AGREENABILITY

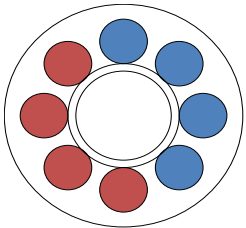


# Proven Technology with a “twist”

**TWISTER Geothermal Heat Exchangers** are patented heat exchanger systems which, because of their novel design, allow the simultaneous installation of four loops around a central Tremie conduit in a single vertical bore hole. ***The images below tell the story...***



**Conventional borehole with one loop and a Tremie Pipe.**



**Borehole with TWISTER’s exclusive design (four loops and a central tremie conduit)**

TWISTER heat exchangers use 4 standard ¾” HDPE Geo pipe loops (Meeting IGSHPA Specifications) spirally wound around a 2” central conduit used to guide the Tremie Pipe unobstructed to the bottom of the well. Supplied on coils or reels, with factory prepared u-fittings and manifolds, installation is quick and easy. **Average Performance Characteristics are shown in the table.**

	Formation Thermal Conductivity	Grout Conductivity	6” Borehole Thermal Resistance (BTR)	Bore Depth per Ton. (Mid-Atlantic Region)
Twisted Pipe	1.6	0.4	.080	100’ (50% less)
Standard 3/4”	1.6	0.4	.217	200’

*GLHEPro Ground Loop Design software has demonstrated that **an average of 30% reduction in loop length is possible.***<sup>1</sup>



O.D.	Center Pipe	Loop Pipe	Loops	ASTM	Cell Classification
4.50”	2”HDPE	¾” HDPE Geo Pipe	4	D3035/D3350	445574C



**For TWISTER ordering information, Please contact Agreenability at the address below..**

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<sup>1</sup>Results will vary by installation. Follow IGSHPA guidelines  
US PAT 20110203766 Additional Pat. Pend.

