

# TWISTER™

SAVE TIME, MONEY & SPACE



## TWISTER™ Geothermal Heat Exchanger Technology

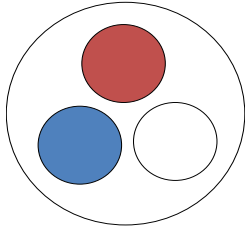
Proven technology with a new “twist”

- High efficiency heat exchange  
Less drilling or more capacity
- Supplied on coils with no assembly
- Installs like a standard Ubend.
- Centralized grouting conduit for the most reliable, easiest and quickest grouting process.

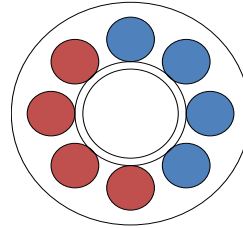
AGREENABILITY

# 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 conduit)**

TWISTER heat exchangers use ¾" ASTM D3035/D3350 Cell Classification 445574C SDR 11 or 13.5 HDPE (IGSHPA Requirement) pipe spirally wound around a central 2" center pipe used to guide the Tremie Pipe. Supplied on coils or reels, with factory prepared u-fittings, installation is quick and easy. **Performance Characteristics are shown in the table (Results will vary):**

	Formation Thermal Conductivity	Grout Conductivity	6" Borehole Thermal Resistance (BTR)	Bore Depth per Ton. (Mid-Atlantic Region)
Twisted Pipe	1.6	1.0	.080	110' (31% less)
Standard 1 ¼"	1.6	1.0	.217	160'

*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
4.475"	2" HDPE	¾" HDPE (SDR 11/13.5)	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.