Otisco Ground-loop System™

Featuring the Patented Integrated Supply & Return Manifold

Product Overview

The Otisco Ground-loop System™ is a patented, US-engineered solution for residential and light commercial geothermal installations. At its heart is the Integrated Supply & Return Manifold (U.S. Patent Application Serial No. 18/983,547), designed to simplify loop field connections, reduce installation labor, and improve reliability.

Key System Features & Benefits

- Patented Integrated Manifold – Eliminates field-built headers, reduces leaks and installation time
- Faster Installations – Contractors report up to 30% labor savings on loop field connections
- Improved Performance – Balanced flow reduces pumping power and optimizes heat transfer
- Compact Design – Space-saving loop arrangement
- Reliability – Fewer joints = fewer opportunities for leaks or callbacks.

The Otisco Ground-loop System™ Advantage

Unlike piecemeal approaches, the Otisco Ground-loop System™ provides:

- Standardized installation arrangement (trademark protected)
- Engineered specifications for loop piping and boring
- CAD/Revit files for engineers and designers
- Comprehensive installation manual & purge/flush guides
- Backed by Otisco Engineering — trusted in HVAC & geothermal system design

Technical Specifications	
Pipe Connections:	SDR 11 HDPE fusion (¾", 1¼")
Flow Range:	2–5 GPM per loop
Temperature Range:	20°F – 120°F (-7°C – 49°C)
Pressure Rating:	160 psi (1.1 MPa)
Configurations:	3 loops per manifold
Materials:	High-density polyethylene (HDPE)

Applications

- Residential geothermal HVAC
- Light commercial geothermal systems
- Horizontal directional drill
- New construction & retrofits

Partner With Us

Bring the Otisco Ground-loop System™ to your next geothermal project:

Greg Nortz, 614-790-0029, gregnortz@otiscoengineering.com
www.otiscoengineering.com