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# ATLANTIS VAULT

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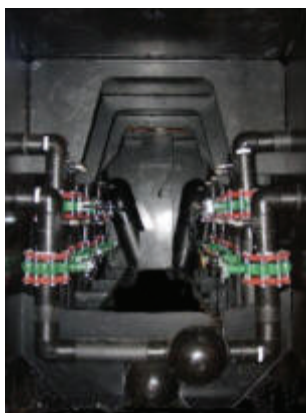
The Atlantis Vault is a one of a kind geothermal vault designed for simple installation and trouble-free operation. The Atlantis Vault is a totally self contained, prefabricated vault constructed of high density polyethylene. Basic components include: custom sized supply and return headers, butterfly valves, p/t ports, sump pump, ladder, catwalk, and manhole. Each vault is custom built to meet the customer's specific needs for each job. Main pipe sizes are available in 3" - 12", with circuit pipe sizes available in 2" - 4". Additional pipe sizes may be custom designed based on project specifications. An Atlantis Mini Vault is also available for smaller sized headers.

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The vault exterior is constructed of 3408 polyethylene flat stock with cell classification 345444C - the same material as the pipe. All joints are extrusion welded to create strong, solid, water tight joints. Much like the buried heat exchanger pipe itself, the polyethylene vault exterior will never corrode, stress crack, or need replacement.

All circuit piping penetrating the exterior wall is extrusion welded to the wall itself to prevent leakage around the penetration. As this occurs, the exterior wall and header piping are fused together to become one homogeneous material and promote leak free operation.



Internal bracing on the top, bottom, and sides of the interior make the vault extremely solid and sturdy. Braces are spaced at a maximum of 24". The offset over and under supply and return configuration not only allows easy access to p/t ports and butterfly valves, but also allows spacing for and simplifies exterior fusion to circuit pipes. Catwalk provides sure footing when working inside. All fittings, including branch saddles, service saddles, butterfly valves, p/t ports, and flanges are tested to meet the highest standard of quality and to further insure the longevity of the The Atlantis Vault.

The header piping system is pressure tested to 100psi during fabrication to ensure a leak free piping system. With all header fusion joints made and tested in controlled conditions by experts, the quality of the piping system is surpassed by none. The ports used for pressure testing are also used as purge ports during system flushing after installation.



Since The Atlantis Vault is constructed of almost 100% high density polyethylene it is very light and can be handled and manoeuvred with minimal equipment. This saves the installer time and money.

Installing The Atlantis Vault is simple. Just dig a hole, set the vault, backfill, and connect the circuits. A concrete footer poured around the base of the vault anchors it and prevents floating in areas of high water table.

