



Steel Tank Thermal Insulating Systems

custom thermal insulation for aboveground tanks

HT-1086

Highland fabricates and insulates steel tanks for a wide variety of applications. Thermal insulation is applied to tanks to help reduce energy costs associated with heating or maintaining heat in products like heavy fuel oil, resins and asphalt binders. We have multiple methods for insulating tanks depending on your specific requirements.

EXTERNAL SPRAY-ON INSULATION SYSTEM

External Spray-on Insulation System

- A complete 360° wrap of sprayed-on insulating material (nominal thickness- 1.5")
- A protective finish coating over the foam insulation to prevent UV damage

INJECTED INSULATION SYSTEM

- A complete 360° second wrap, steel skin
- The interstice is injected with a special time-activated foam insulating material that expands to completely fill all voids and eliminate air pockets

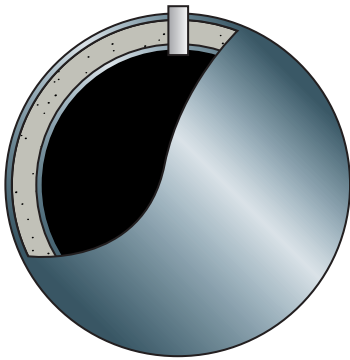
External Batt with Jacket Insulation System

- A complete 360° wrap with insulating batts of mineral wool, fiberglass or ceramic material
- A complete 360° wrap with a 24-26 gauge aluminum skin to ensure insulation integrity

EXTERNAL BATT WITH JACKET INSULATION SYSTEM

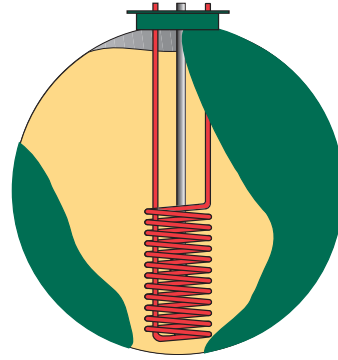
- A complete 360° wrap with insulating batts of mineral wool, fiberglass or ceramic material
- A complete 360° wrap with a 24-26 gauge aluminum skin to ensure insulation integrity

Injected Insulation System



R-Value: Injected or Sprayed on - 7 per inch of insulation. Nominal 2" applied with top-coat finishes available.

Steam/Hot Water - Heater Coil Schematic



R-Value: External Batt - 4 per inch of insulation with a variety of temperature resistance and moisture barriers.

Options and Accessories

- Aboveground UL-142 single or double-wall horizontal and vertical designs
- Aboveground cylindrical and rectangular design
- Underground UL-58 double-wall horizontal steel design (Injected Insulation System only)
- Steam, hot water and electric heating systems
- Manways, extra fittings, normal and emergency vents
- Leak detection, level sensing, pumps and controls
- Saddles and support systems
- Dikes, rainshields and canopies



Injected or spray-on insulation system



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