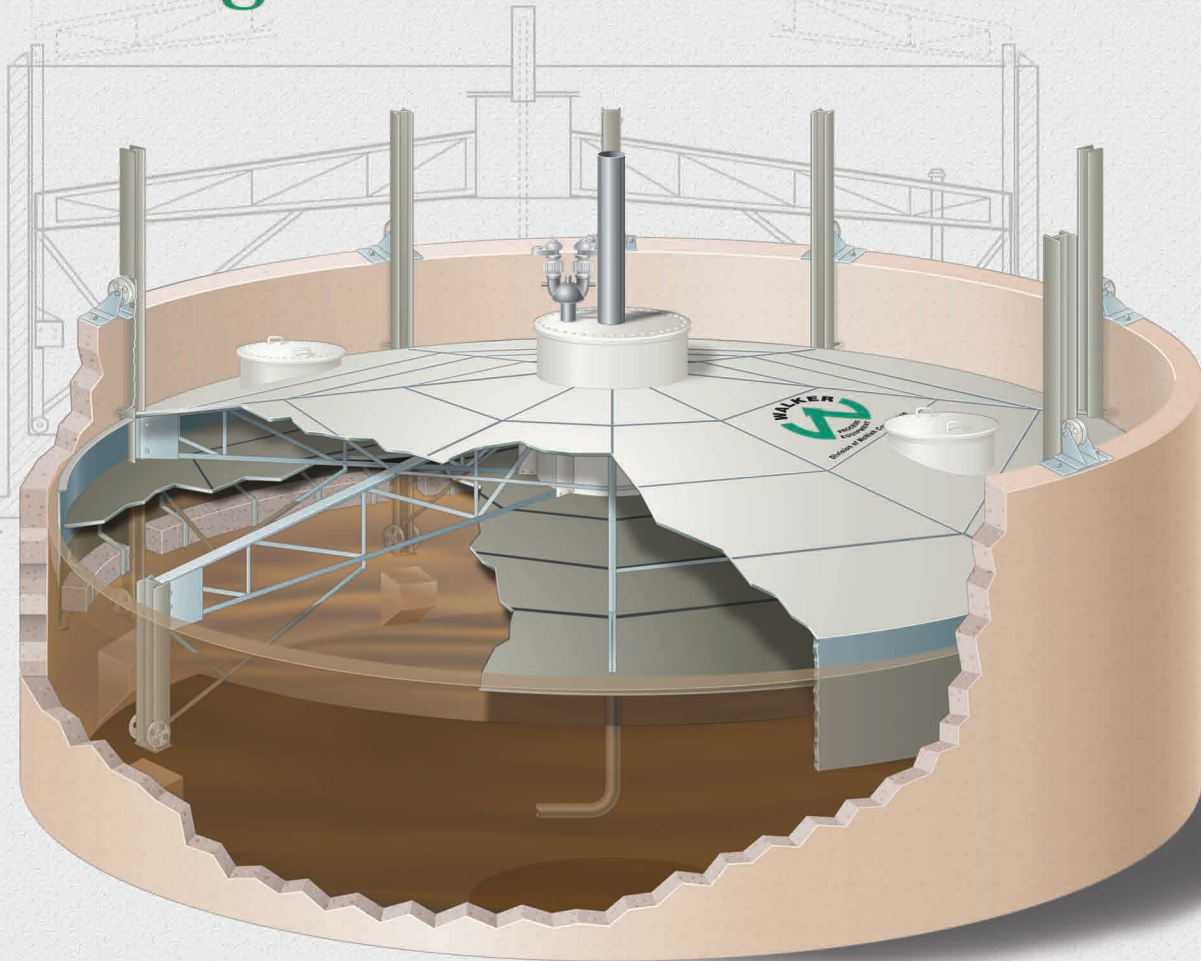


Anaerobic Digester Combination Gas Holder /Floating Cover



Division of McNish Corporation

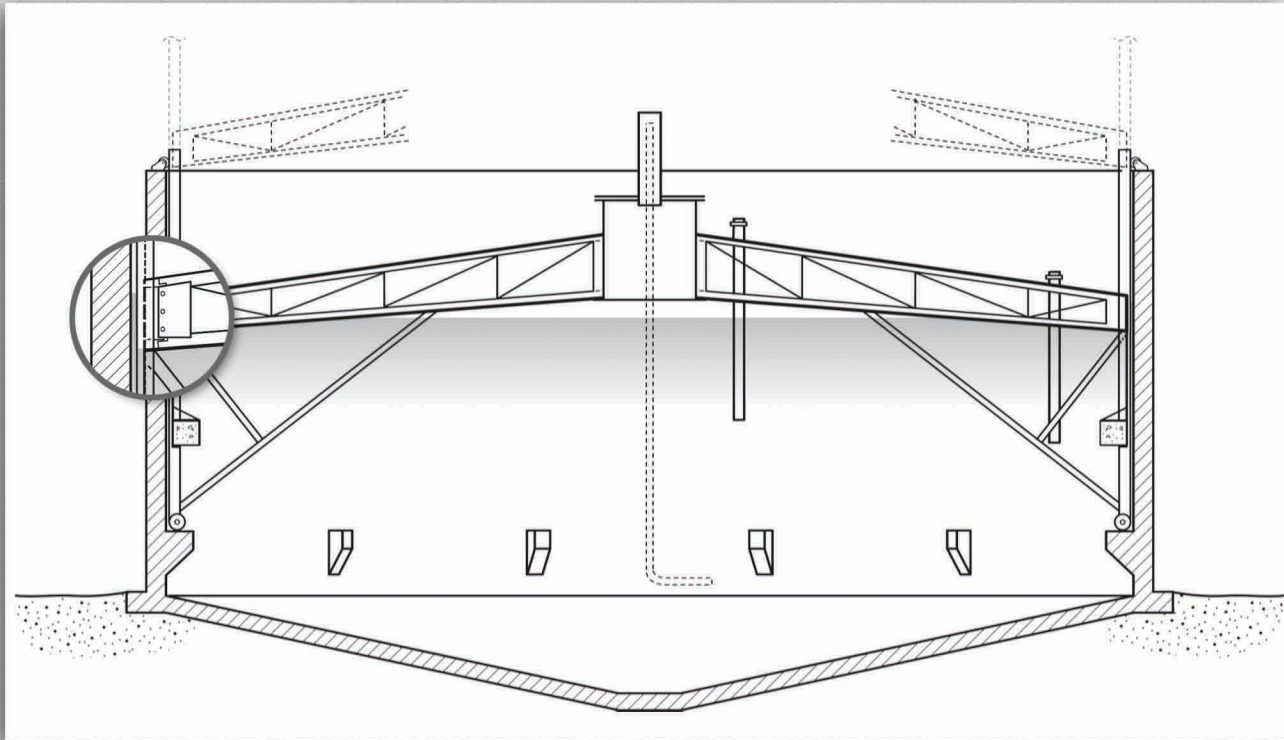


Combination Gas Holder / Floating Cover

Frame Designed - Radial Truss - Vertical or Spiral Guide - Dual Deck

Time-Tested, Longest Lasting Digester Cover in the Industry

- **Low Profile - Radial Truss Frame Construction - Completely Self Supporting.**
- **Frame Design for High Structural Factor of Safety.**
- **Readily Insulated.**
- **Variable Volume with Constant Pressure.**
- **Dual Deck - Provides Additional Insulation and Scum Submergence if used as a Floating Cover.**
- **Proven Long Life Over Decades of Service.**
- **Typical Sizes Range from 20 to 100 Feet in Diameter.**
- **All Walker Process Covers are Custom Designed for Project Specific Loading Conditions.**
- **Inherently Stronger and More Substantial than Membrane Type Covers.**
- **Typical application – Secondary Digester with constant or variable sludge level.**
- **Typical Design Pressure to 16 Inches W.C.**



Conservative Design for Long Service Life

Walker Process Combination Gas Holder Covers / Floating Covers are constructed with tapered radial trusses and designed based on a conservative frame design method that takes into account both the main structural elements and elements of the plate work for analysis of structural integrity.

After field welding is completed, the finished structure demonstrates superior strength and durability because the structural framework and steel plates work together as an integral unit.

The radial trusses are designed with an upward sloped bottom chole to produce a durable and stable cover that suppresses surface scum, when used as a floating cover, while providing superior frame strength for a long safe service life.

- Main Rafters** | Radial Truss design produces maximum structural integrity with sufficient depth to provide an attic space for inspection and protection of the trusses.
- Gas Dome** | Provides the structural connection for the radial trusses. Includes a top plate for mounting gas lines. Pressure/Vacuum Relief valve and other accessories.
- Rim Plate** | Minimum ¼ inch steel plate with depth to provide desired gas storage volume at constant pressure.
- Purlins** | Structural members connected between main rafters to provide lateral bracing, rigidity and support for the roof plates, minimum ¼ inch thick.
- Roof Plates and Ceiling Plates** | Minimum ¼ inch thick plate field welded to the main truss structure. The dual deck design provides an accessible weather protected attic for the addition of insulating material to be placed on the ceiling plates.
- Guide System Vertical or Spiral Guide Systems** | Heavy Structural Wide Flange Beams each with 10.75 inch diameter cast iron rollers.
ALSO AVAILABLE WITH SPIRAL GUIDE SYSTEM WITH SLIDE BLOCK OR ROLLER DESIGN
- Anchorage** | Anchor assemblies placed at each wall guide.
- Appurtenances** | Access hatches, sampling wells, pressure and vacuum relief valve and Cover Position Indicator.

Walker Process has continuously provided and improved steel digester covers since 1948.

See our complete series of digester covers including; fixed cover, floating cover, and gasholder.

Walker Process Equipment

Division of McNish Corporation

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