

Duo-Deck™ Digester Floating Cover

The Duo-Deck™ steel floating covers for digester tanks provide distinct advantages over other floating covers. The completely all welded structure provides a sealed air space within which oxidation of the metal surfaces is virtually eliminated. Duo-Deck™ floating covers are designed with a sealed attic space providing a protected area for the application of insulation. The ceiling plate floats on the tank liquid surface, submerging the greases and oils and assuring a substantially sealed and water tight structure.

Available in sizes for 10'-0 (xm) to 110'-0 (xxm) the Duo-Deck cover offers optimum digestion conditions for nearly all digester tanks.

OPERATIONAL FEATURES INCLUDE:

1. Prevents scum blanket buildup. Floatable materials – oil, grease, hair, cellulose are kept constantly submerged and in contact with active digesting material. The material stays moist, aiding degradation.
2. Promotes effective mixing. With the ceiling plate, mixing turbulence is directed across the surface of the tank. Without a ceiling plate, energy from the mixing action is more localized and dissipated.
3. Consistent digester performance. As with any biological system, additions of solids should be made in frequent increments and not necessarily only when withdrawing solids. The floating cover permits the independent addition of solids, even continuous solids additions.
4. Easier operation. With a floating cover, solids additions or withdraws can be accomplished independently of each other without concerns over excessive pressure or creating a vacuum, either of which can severely damage or destroy a fixed cover.
5. Simplified maintenance. The structure integrity of Duo-Deck™ floating covers allows the cover to easily support removable digester mixing equipment for easy maintenance. Structural soundness also allows for future cover removal or jacking facilitating digester cleaning.



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Data Sheet