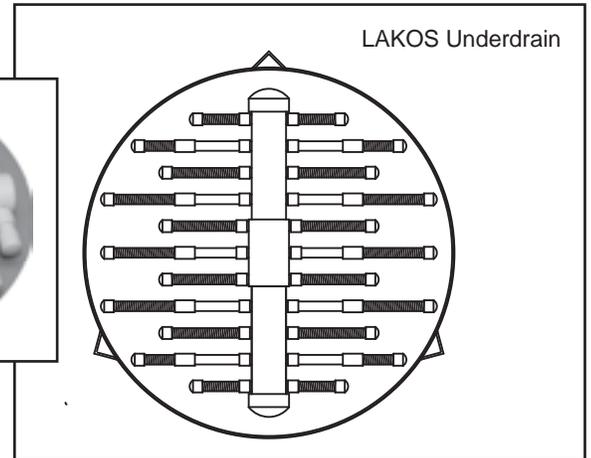
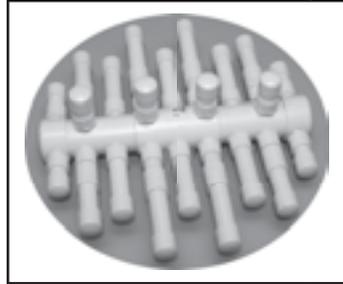


Media Sand Filters Comparison of Underdrains

Critical to the performance of a sand filter is its ability to create uniform flow across the entire sand bed surface and provide maximum backwash characteristics. Compare, for example, the specifications of a 48-inch sand filter tank and consider:

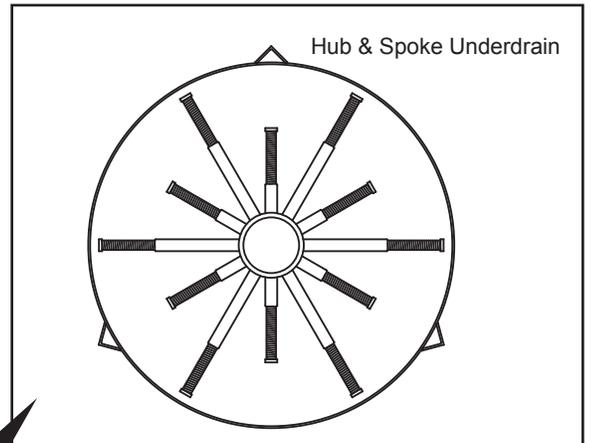
LAKOS Underdrain

Total length of 1/4-inch dia. open screen material: at least 12½ feet
Total open area of screen: at least 45½ in²*
Screen-to-inlet ratio: at least 3.6:1 more open area than inlet size*



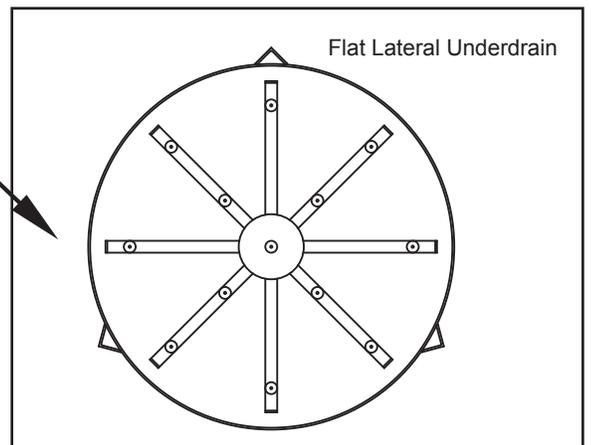
Hub & Spoke Underdrain

Total length of 1/4-inch dia. open screen material: 6 feet
Total open area of screen: 17 in²
Screen-to-inlet ratio: 1.4:1 more open area than inlet size



Flat Lateral Underdrain

Total length of 1/4-inch dia. open screen material: 3 feet
Total open area of screen: 8 ¾ in²
Screen-to-inlet ratio: 0.7:1 less open area than inlet size



Key LAKOS Advantages

- LAKOS media filters do NOT require multi-layering, so a single grade of sand may be used.
- LAKOS Underdrain features 285% more than a Hub & Spoke design and 554% more open area than the Flat Lateral design.
- LAKOS Underdrain features the industry's lowest pressure loss: 0 to 1.5 psi (0 to 0.1 bar) through a clean filter system.
- LAKOS Underdrain makes maximum use of the filter's entire surface area, avoiding contaminant build-up residual/continuous "dead spots" and premature/excessive backwashing.
- LAKOS Underdrain delivers optimum backwashing to lift and flush the sand bed with maximum efficiency, returning the sand filter to its lowest pressure loss for longer operating cycles, less water loss and reduced moving parts fatigue.

* Differs slightly by LAKOS model

LAKOS: Performance. Efficiency. Value