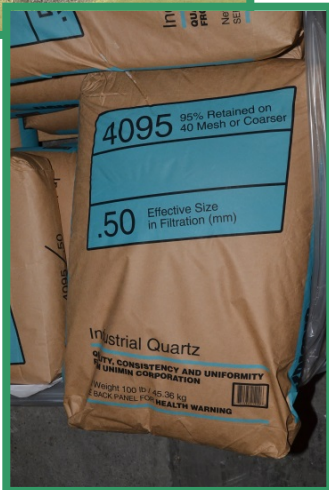
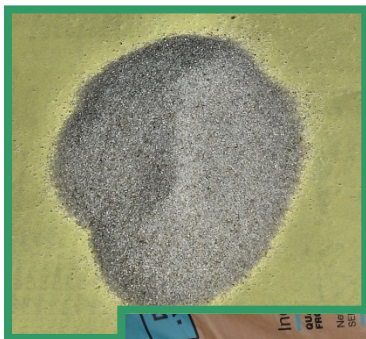


# Application Table

## FRF Series Sand Filters

Model	50	70	100	120	150	240	300
Part Number	919505	919507	919510	919512	919515	919524	919530
Mineral Tank	12x52	13x54	14x65	16x65	21x62	24x72	30x72
Media Volume (ft <sup>3</sup> )	1 ½	2 ¼	3 ¼	4	5	8	10
Gravel (lbs)	15	30	40	55	140	200	250
Bed Area (ft <sup>2</sup> )	0.79	0.92	1.07	1.40	2.40	3.14	4.90
Backwash Rate (gpm)	10	12	15	20	35	50	70
<b>Head Loss</b>							
Flow at 5 gpm/ft <sup>2</sup>	3.9	4.6	5.4	7.0	12.1	15.7	24.5
Head Loss in psi at 5 gpm/ft <sup>2</sup>	4.0	6.3	6.5	7.3	7.0	8.5	8.1
<b>Flow Range</b>							
Flow at 2 gpm/ft <sup>2</sup> (gpm)	1.6	1.8	2.1	2.8	5	6	10
Flow at 3 gpm/ft <sup>2</sup> (gpm)	2.4	2.8	3.2	4.2	7	9	15



Water King Filter Sand is mined on the mississippi / louisiana border from the alluvial deposits of the pearl river. The sand is pristine in quality and free of contaminants. Sand is **AWWA Standard B-100** and **ANSI / NSF Standard 61** Approved. The sand and gravel in the media packs listed below are both from the same source. Water King Filter Sand is suited for domestic, commercial and industrial water treatment applications.

### Physical Properties

Color:	Light Tan
Density:	100 lbs / ft <sup>3</sup>
Mesh Size:	
Effective Size:	50 mm
Uniformity Coefficient:	1.5
Specific Gravity:	2.65 to 2.75

### Operating Conditions - Typical

Bed Depth:	18 to 30 inches
Freeboard:	50% of bed depth for backwash expansion
Backwash Rate:	15 gpm / ft <sup>2</sup>
Backwash Expansion:	Up to 50%
Service Flow Rate:	Rapid Sand Filter 2.0 gpm/ft <sup>2</sup> Residential on Well Water or City Supply up to 5 gpm /ft <sup>2</sup>