Backwash Reduction System

BRS

Reduces sand filter backwashing cycles by 50% or more, reducing water loss and maintaining optimum flow and pressure to the irrigation system.

As a pre-filter to your sand filter system, the Backwash Reduction System removes troublesome sand and settleable particles to dramatically reduce the contaminant load on the sand media surface. Centrifugal-action performance and easily automated purging provides a maintenance-free alternative to wasteful backwashing.

Reduces backwashing cycles

Controlling the contaminant load on a sand filter, the BRS extends the operating time between backwashing cycles. Saves water and reduces wastewater handling. Sustains maximum flow and pressure to the irrigation system for greater overall efficiency.

Extends a sand filter's operating life

Controls residual build-up and media sand maintenance/replacement - Keeps sand from entering the tanks and building up on the sand media surface.

Reduced backwashing cycles means less valve actuation, timer sequencing, solenoid action and moving parts fatigue. Systems last longer and operate efficiently for greater life.

Low pressure loss

Virtually no effect on low pressure irrigation systems. No system modifications necessary. Pressure loss range: 2-6 psi (0.1-0.4 bar).

Fits all makes of sand filters

Standard sizes fit all LAKOS SST Sand Filters. Optional leg heights available to match all other makes of sand filters.

BRS: Available as a specified option with all LAKOS SST Sand Filter Systems. Easily retrofit to any LAKOS or other brand sand filter system. Effective. Affordable.

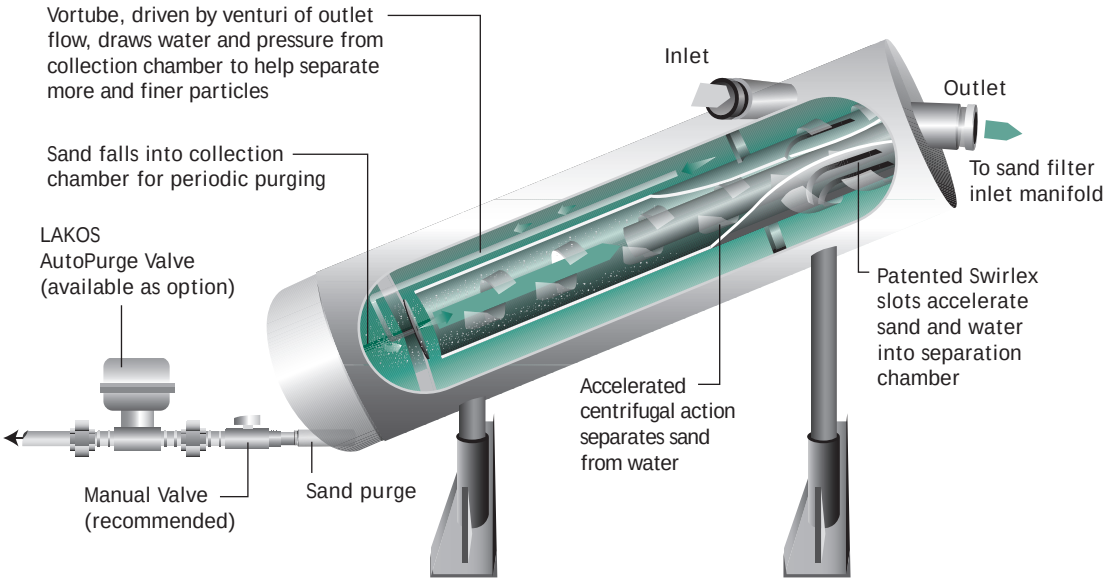
Flow range:
180-2000 U.S. gpm
(41-454 m^3/hr)

Description
How It Works
Dimensions
Specifications
Warranty

LAKOS®
Liquid•Solids Separation Systems

LAKOS
Liquid•Solids Separation Systems

How It Works



Limited Warranty

All products manufactured and marketed by this corporation are warranted to be free of defects in material or workmanship for a period of at least one year from date of delivery. Extended warranty coverage applies as follows:

All LAKOS Separators: Five year warranty

All other components: 12 months from date of installation; if installed 6 months or more after ship date, warranty shall be a maximum of 18 months from ship date.

If a fault develops, notify us, giving a complete description of the alleged malfunction. Include the model number(s), date of delivery and operating conditions of subject product(s). We will subsequently review this information and, at our option, supply you with either servicing data or shipping instruction and returned materials authorization. Upon prepaid receipt of subject product(s) at the instructed destination, we will then either repair or replace such product(s), at our option, and if determined to be a warranted defect, we will perform such necessary product repairs or replace such product(s) at our expense.

This limited warranty does not cover any products, damages or injuries resulting from misuse, neglect, normal expected wear, chemically-caused corrosion, improper installation or operation contrary to factory recommendation. Nor does it cover equipment that has been modified, tampered with or altered without authorization.

No other extended liabilities are stated or implied and this warranty in no event covers incidental or consequential damages, injuries or costs resulting from any such defective product(s).

Lakos Separators are manufactured and sold under one or more of the following U.S. Patents: 3,289,608; 3,512,651; 3,568,837; 3,701,425; 3,947,364; 3,963,073; 4,027,481; 4,120,795; 4,123,800; 4,140,638; 4,147,630; 4,148,735; 4,305,825; 4,555,333; 5,320,747; 5,338,341; 5,368,735; 5,425,876; 5,571,416; 5,578,203; 5,622,545; 5,653,874; 5,894,995; 6,090,276; 6,143,175; 6,167,960; 6,202,543; Des. 327,693; and corresponding foreign patents, including 600 12 329.4-08 (Germany) and EP 1 198 276 B1 (EU); other U.S. and foreign patents pending.

Dimensions

Model	Length		Width**		Inlet/Outlet Height	
	in.	mm	in.	mm	in.	mm
BRS-180	73 7/8	1876	40	1016	46 1/8	1172
BRS-250	77 3/8	1975	40	1016	53 3/8	1356
BRS-380	96 5/8	2454	40	1016	56 3/4*	1365*
BRS-640	104 3/4	2661	40	1016	56 3/4*	1365*
BRS-990	130 3/16	3307	40	1016	56 3/4*	1365*

*Leg height also adjusts to accommodate LAKOS 45-inch SST inlet manifold.
**This dimension refers to the width of the support legs.

Specifications

Model	Inlet/Outlet Size Grooved End Pipe	Flow Range		Weight		Weight With Water	
		U.S. gpm	m^3/hr	lbs.	kg	lbs.	kg
BRS-180	4-inch	180-260	41-59	398	181	520	236
BRS-250	4-inch	250-380	57-86	421	191	543	246
BRS-380	6-inch	380-645	86-146	606	276	996	452
BRS-640	8-inch	640-1240	145-282	838	391	1584	719
BRS-990	10-inch	990-2000	225-454	1298	588	2735	1241

Pressure loss: 2-6 psi (0.1-0.4 bar)
Maximum Pressure Rating: 150 psi (10.3 bar)
Maximum Temperature Rating: 180°F (82.2°C)
Paint Coating: Spray-on enamel finish, LAKOS granite grey (exterior only)
Purge Outlet: BRS-180, 250, 380, 640 — 1 1/2" Male NPT; BRS-990 — 2" Male NPT

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