



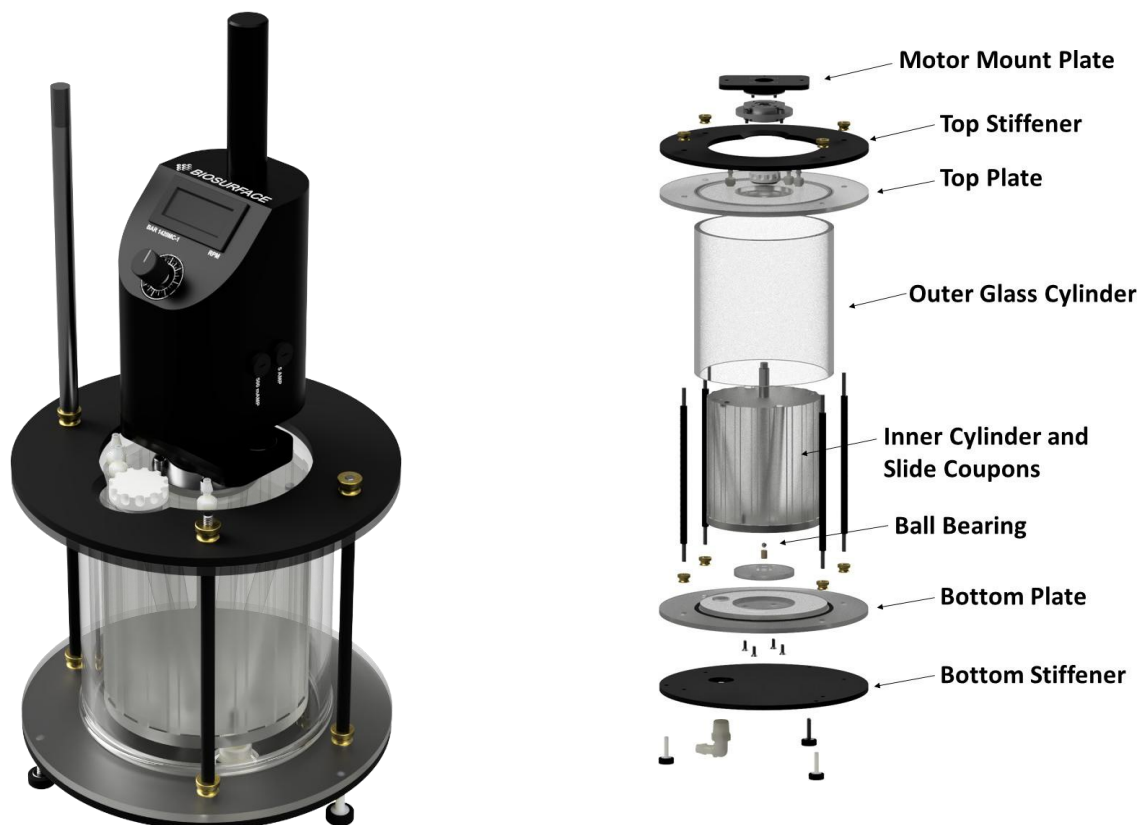
# BioSurface Technologies Corporation

## Model 1420 Biofilm Annular Reactor

Evaluation of surface-associated biological reactions require surface-specific evaluations. By matching surface shear and transport conditions within the Biofilm Annular Reactor to your process conditions, relevant evaluations of your water treatment processes are possible.

The BST Model 1420 Biofilm Annular Reactor consists of a stationary outer cylinder and a rotating inner cylinder. Process fluid is circulated in the annulus between the two cylinders. This model operates with a variable-speed motor. The rotational speed of the inner cylinder is set to provide liquid-surface shear similar to the pipe flow shear of the process water system you are evaluating.

The Biofilm Annular Reactor (BAR 1420 LS) is manufactured using an inner, slotted polycarbonate cylinder and a glass outer cylinder. Twenty (20) slides are flush-mounted on the rotating inner cylinder. The slides are available in a variety of metals and plastics, and can also be custom fabricated from most common manufacturing materials upon request. The reactor unit is fully autoclavable to 121°C. A jacketed version of the laboratory unit described above is also available (BAR 1420 LJ) for evaluations that require temperature control. The Model 1420 Biofilm Annular Reactors are CE certified and accept 100 to 240 VAC power input.



**Model 1420 LS Biofilm Annular Reactor**



## Model 1420 Biofilm Annular Reactor

### **BAR 1420 LS Standard Laboratory Annular Reactor** **\$7,900.00**

Includes standard reactor vessel (polycarbonate, stainless steel, glass, Viton and butyl seals, nylon/Kevlar bushings, anodized aluminum compression plates, nylon fittings; working volume 1.0L), variable speed motor and controller (max. speed 500 rpm; operational range 30-500, CE Certified), 20 polycarbonate slides, effluent tubing, bacterial air vent, flow break, slide removal tool, six (6) month limited warranty. Operator's Manual available for digital download.

### **BAR 1420 LJ Jacketed Annular Reactor** **\$8,900.00**

Includes jacketed reactor vessel (polycarbonate, stainless steel, glass, Viton and butyl seals, nylon/Kevlar bushings, anodized aluminum compression plates, nylon fittings; working volume 1.0L), variable speed motor and controller (max. speed 500 rpm; operational range 30-500, CE Certified), 20 polycarbonate slides, effluent tubing, bacterial air vent, flow break, slide removal tool, six (6) month limited warranty. Operator's Manual available for digital download.

### **BAR 1420MC-1 Biofilm Annular Reactor Motor / Controller Box** **\$3,900.00**

Includes variable speed motor and controller (max. speed 500 rpm; operational range 30-500, CE Certified), six (6) month limited warranty. Operator's Manual available for digital download.

## Biofilm Annular Reactor Components

<u>Description</u>	<u>Part Number</u>	<u>Price</u>
BAR 1107B	Ball Tower (polycarbonate)	\$64.00
BAR 1111	Kevlar Nylon Bushing	\$18.00
BAR 511-2	Glass Cylinder	\$975.00
BAR 521	Glass Water Jacket	\$1,400.00
BAR 2-362N70	O-rings (Set of 2)	\$15.00
BAR 2-369N70	O-rings (Set of 2)	\$19.00
BAR 115	Hole Plug with O-ring	\$52.00
BAR 4935/2	Shaft Seals	\$120.00
BAR R-8ZZST	Bearing	\$110.00
BAR 92741	Brass Finger Nuts	\$6.00
BAR 9529	1/4" 440 Stainless Steel Ball Bearings, Set of 2	\$4.00
BAR 3842	Slide Removal Hook	\$14.00
BAR 6428K41	Zinc Hub-3/8" shaft	\$18.00
BAR 6428K51	Neoprene Sleeve	\$15.00
BAR 6978a	Fuse	\$8.00

ALL PRICING BASED ON PAYMENT TERMS OF NET 30 DAYS.

Pricing shown is for domestic US Market. Please contact BioSurface Technologies Corporation, or one of our international distributors for international pricing. International customers will incur additional charges associated with shipping, insurance, import duties, taxes, and fees that are not covered by BioSurface Technologies Corporation. Prices are subject to change without notice.



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## Biofilm Annular Reactor Slide Coupons

(fits 920, 1120, 1320, and 1420 Biofilm Annular Reactors)

Part number	Description	Price (ea)
BAR 503-303	Stainless Steel (A303) Slide Coupon	\$20.00
BAR 503-304	Stainless Steel (A304) Slide Coupon	\$21.00
BAR 503-316	Stainless Steel (A316) Slide Coupon	\$21.00
BAR 503-ABS	ABS Plastic Slide Coupon	\$10.60
BAR 503-Brz	Bronze Slide Coupon	\$26.00
BAR 503-CC	Concrete Coated Slide Coupon (polycarbonate slide filled with concrete)	\$24.00
BAR 503-CI*	Cast Iron Slide Coupon (requires modified inner cylinder)	\$48.00
BAR 503-CS	Mild (carbon) Steel (A366) Slide Coupon	\$20.00
BAR 503-Cu	Copper Slide Coupon	\$28.00
BAR 503-GL	Borosilicate Glass Slide Coupon	\$42.00
BAR 503-Ny	Nylon Slide Coupon	\$12.00
BAR 503-PC	Polycarbonate Slide Coupon	\$10.00
BAR 503-HDPE	High-Density Polyethylene Slide Coupon	\$12.00
BAR 503-PP	Polypropylene Slide Coupon	\$10.00
BAR 503-PVC	PVC Slide Coupon	\$11.00

\*Note: Requires modification of the inner cylinder (rotating cylinder) to permit a thicker slide. A thicker slide material is required to prevent breakage as the cast iron material is quite brittle. In order to implement the cast iron slides, an additional cost is required for the machining of the reactor inner cylinder above and beyond the standard price (additional cost of \$702 per unit). Once this modification has been accomplished, the standard slides (all other materials) can still be used in the reactor.

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