

HIGH-FLOW  
MUNICIPAL WASTEWATER  
TREATMENT SYSTEM

## INTEGRATED BIO-REACTOR

AN INNOVATIVE VERTICAL DESIGN THAT REDUCES SYSTEM  
FOOTPRINT AND MAXIMIZES OXYGEN TRANSFER



“ A UNIQUE MODIFICATION OF THE CONVENTIONAL ACTIVATED SLUDGE PROCESS, THE IBR DESIGN INTEGRATES AEROBIC, ANAEROBIC, AND CLARIFICATION ZONES WITHIN THE SAME STRUCTURE, REDUCING BIOLOGICAL TREATMENT COSTS AND INCREASING PROCESSING CAPACITY. ”

### SYSTEM FEATURES

BOLTED, CS CONSTRUCTION  
AERATION BIO-REACTOR  
INTEGRAL CLARIFIER  
ANOXIC ZONE  
COARSE BUBBLE DIFFUSERS  
AERATION BLOWERS  
SLUDGE TRANSFER PUMP  
ADJUSTABLE WEIR LAUNDER  
ACTIVATED SLUDGE TRANSFER PUMP

### OPERATIONAL BENEFITS

BOD REDUCTION TO <20mg/L  
COD REDUCTION TO <40mg/L  
NEAR ZERO EXCESS SLUDGE  
VERTICAL INSTALLATION = SMALL FOOTPRINT  
LOW O & M COSTS

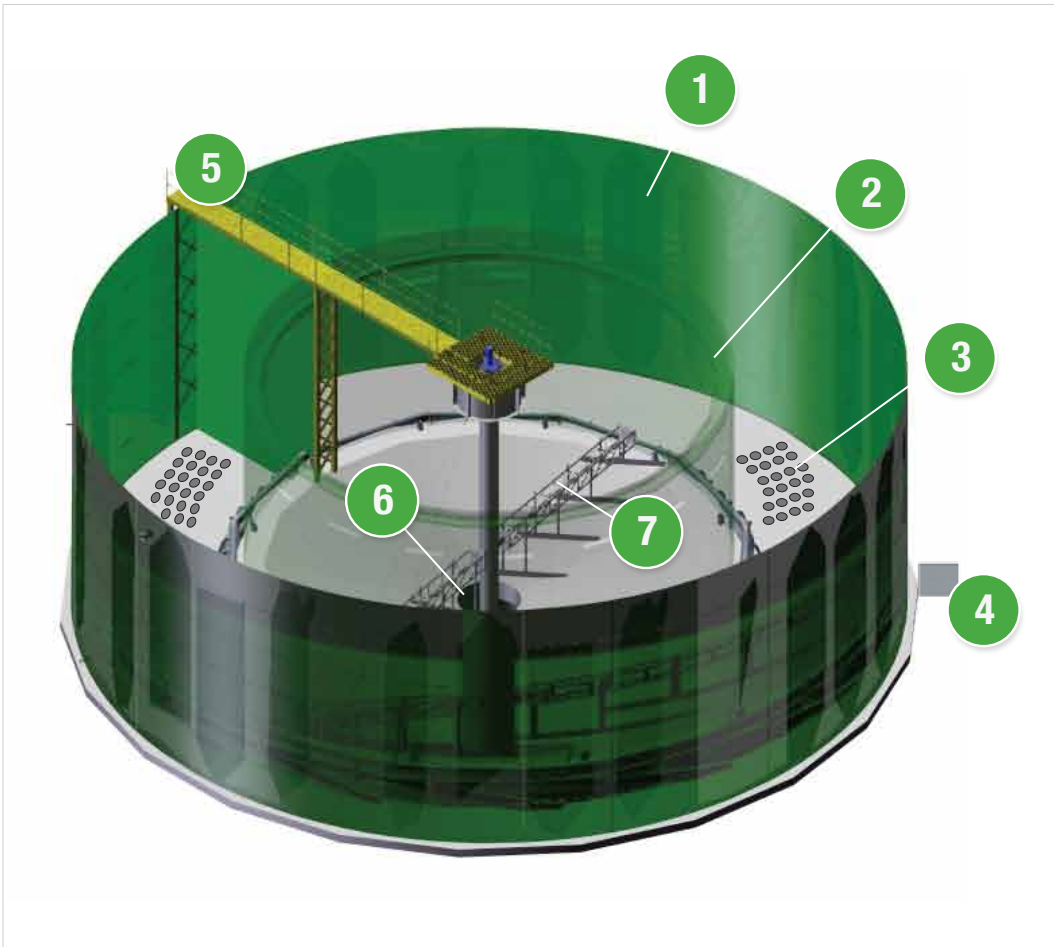
### APPLICATIONS

SMALL COMMUNITIES  
MID-LARGE CITIES  
GOVERNMENTS  
INFRASTRUCTURE REHABILITATION

### REQUEST A QUOTE

678.514.2100 or 888.326.2020  
11800 Wills Rd, Suite 100 Alpharetta, GA 30009  
[www.EcologixSystems.com](http://www.EcologixSystems.com)

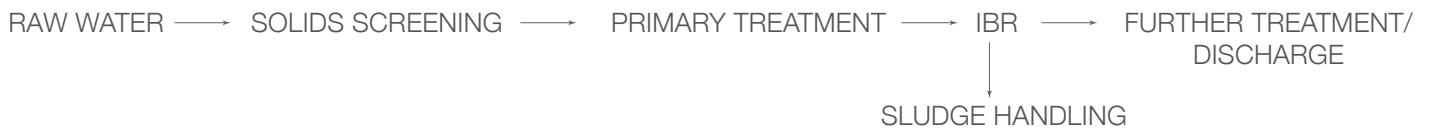




## IBR FEATURES

1. OUTER BIO-REACTOR
2. INTEGRAL CLARIFIER
3. AERATION DIFFUSERS
4. AERATION BLOWERS
5. ACCESS CATWALK
6. SLUDGE OUTLET
7. SLUDGE SCRAPER

## BIOLOGICAL TREATMENT PROCESS



## INTEGRATED BIO-REACTOR SPECIFICATIONS

MODEL	FLOW RATE (GPD)	POPULATION EQUIVALENT	REACTOR DIAMETER	POWER INSTALLED
IBR-100	100,000	1,900	18 FT	9 kW/hr
IBR-200	200,000	3,800	25 FT	18 kW/hr
IBR-300	300,000	5,700	31 FT	26 kW/hr
IBR-500	500,000	9,500	40 FT	44 kW/hr
IBR-700	700,000	13,200	48 FT	62 kW/hr
IBR-800	800,000	15,100	51 FT	70 kW/hr
IBR-1000	1,000,000	19,000	57 FT	88 kW/hr