



# BIOPURE® SBR Decanter

Smart • Compact • Continuous Decanting • Floating Supernatant Extraction

## SYSTEM OVERVIEW & TECHNOLOGY

The **BIOPURE® SBR Decanter** is a high-performance floating supernatant extraction system engineered for Sequencing Batch Reactor (SBR) treatment loops[cite: 1]. It gently withdraws clarified supernatant water from the basin surface without disturbing the settled sludge blanket[cite: 1], guaranteeing superior effluent quality for municipal and industrial wastewater applications[cite: 1].

✓ Precision surface level tracking with zero sludge carryover, built using SS304/SS316 stainless steel for maximum corrosion resistance[cite: 1].

**10 - 10,000**

M<sup>3</sup>/DAY PLANT CAPACITY[CITE: 1]

**Up to 2.5 m**

DECANTING DEPTH[CITE: 1]

**SS304 / SS316**

CORROSION RESISTANT MOC[CITE: 1]

## BIOPURE® SBR DECANTER UNIT



✓ 100% Automatic Precision Floating Decanter Assembly[cite: 1]

## ★ KEY SYSTEM ADVANTAGES



### Zero Sludge Draw

Preserves settled biomass blanket[cite: 1].



### Scum Baffle

Blocks surface oil & floatables[cite: 1].



### PLC Control

Automatic batch cycle control[cite: 1].



### Low O&M

Minimal wear & power needs[cite: 1].



### High Effluent Quality Guarantee

Delivers clear supernatant discharge with low turbidity, meeting stringent environmental compliance standards[cite: 1].

## PRODUCT RANGE SPECIFICATIONS

| MODEL SERIES NAME               | DECANT RATE (M <sup>3</sup> /HR)                        | TARGET DAILY CAPACITY (M <sup>3</sup> /DAY) |
|---------------------------------|---------------------------------------------------------|---------------------------------------------|
| BIOPURE-SBRD-10                 | 10 – 30 m <sup>3</sup> /hr                              | 10 – 150 m <sup>3</sup> /day                |
| BIOPURE-SBRD-50                 | 30 – 100 m <sup>3</sup> /hr                             | 150 – 500 m <sup>3</sup> /day               |
| BIOPURE-SBRD-100                | 100 – 250 m <sup>3</sup> /hr                            | 500 – 1,200 m <sup>3</sup> /day             |
| BIOPURE-SBRD-250                | 250 – 500 m <sup>3</sup> /hr                            | 1,200 – 3,000 m <sup>3</sup> /day           |
| BIOPURE-SBRD-500                | 500 – 1,000 m <sup>3</sup> /hr                          | 3,000 – 10,000 m <sup>3</sup> /day          |
| Max Decanting Depth             | Up to 2.5 m                                             |                                             |
| Materials of Construction (MOC) | Stainless Steel SS304 / SS316 Pontoon & Weir Assembly   |                                             |
| Drive & System Controls         | Electric Motor / Hydraulic Actuator with PLC Automation |                                             |

## SBR DECANTER STRUCTURAL SCHEMATIC



🔧 Floating Assembly with Flexible Swivel Joints & Motorized Control[cite: 1]

## TARGET APPLICATION SECTORS



### Municipal STP

Large Municipal Plants[cite: 1]



### Residential STPs

Apartments & Complexes[cite: 1]



### Industrial ETPs

Corrosion-Proof ETPs[cite: 1]



### Hotels & Resorts

Quiet & Odorless[cite: 1]