



# ROTATING BIOLOGICAL CONTACTOR(RBC)

## FEATURES:

- High flexibility: In general, the water feature and water quantity are complicated with big changes. Under this circumstance, the sewage treatment facilities should obtain high flexibility so to meet the current need and the future expansion and changes.
- Small measure of area: Among all kinds of treatments bio-membrane treatment takes the smallest measure of area.
- Low electricity consumption: Since the rotating contactor runs in low speed (2rpm), it takes very low electricity consumption. comparing with mud treatment, it takes only one-fifth of its electricity consumption or even lower.
- Easy to maintain. It requires very little maintain fee except lubricating the rotating shaft periodically.
- Easy to be operated. Ordinary workers with basic training can operate it smoothly.
- Great loading flexibility: It is superior to other traditional treatments in organic vibrating loading and in resisting the overflowing toxicant. It is because the short stay period for disposal sewage, so the overflowing toxicant that happens accidentally can be recovered very quickly.
- Small mud quantity with high concentration, no stinky smell either noise.
- High efficiency: Even with no initial facilities, it can remove 90% to 98% of BOD5.
- Fast to get reinstated: It takes only 3 to 5 days to get reinstated when operation starts or stops.

## APPLICATIONS:

Bio-membrane treatment is a new technique for disposal sewage treatment. The technique includes water conservancy technique, bio-membrane circulation technique and microbe's segregation technique. It is most efficient and economic in dealing with residence and industry disposal sewage with high BOD nitride and carbide.



NAME / MODE	SAME-30
Surface square measurement	2350m <sup>2</sup>
RBC housing	Network shape
Panel diameter	3000mm(size as per request)
Bio-membrane material	HDPE
Central shaft	Seamless stainless steel tube
Running speed	The main shaft rotates two times per minutes while the side speed is 18.85m per minute.
Motor	2HP
Retarding machine	Two sections of CYCLO or HELICAL
Bearing	Automatically change the bearing
Etch prevention treatment	The steel contains oxygen-encircled resin (except SUS304)

## SPECIFICATIONS:

The rotating biological contactor (RBC) contains a serial of parallel network round shape filter that vertically joined. Half part of it is immersed in disposal sewage and half part of it is explored in air. The RBC interlock revolves around in water and in the air. Microbes that cultivated from organisms in water then adhere to RBC and form the bio-membrane. When the bio-membrane contact the disposal sewage it decomposes of digests the oxygen-fond microbes, and when it explodes in the air it continuously gains the oxygen, which required by oxygen-fond gem. With this rotating reflection the polluting condition and the oxygen-fond microbes will be reduced and reach to the discharge standard.

■ The specialized heart \ environmental protection sentiment ~ is the same management idea.