

BOR

转鼓式精密过滤器

BOR Rotary Drum Filter



产品简介 / PRODUCT DESCRIPTION

转鼓式精密过滤器是一种多功能的新型过滤器，在市政污水、化工、工业污水深度处理及升级改造中广泛应用。转鼓过滤器由中心进水管、转筒滤网、联动齿轮、转动轴承、密封件、反洗系统等装配组成，是利用重力使固体颗粒被截留，实现水中固、液有效分离的精密机械。

Rotary drum filter is a new multi-functional filter, which is widely used in municipal, chemical and industrial sewage advanced treatment and upgrading systems. Rotary Drum filter is assembled of hollow drum, rotary drum screen, linkage gear, rotating bearing, sealings and backwashing system, which can intercept solids by gravity for solid-liquid separation.

设备优势 / ADVANTAGES



- 01** 冲洗消耗水量小：杂质不易存积于滤网之上，反洗高压水轻松清除杂质。所用水取自过滤后水，用水量为处理的水量0.3%，远低于其他同类过滤器3%~5%的用水量。减轻反洗废水后期处理的负担。
Small water consumption, impurities are not easy to accumulate on filter screen, the high backwashing pressure can easily remove impurities. The backwashing water consumption is about 0.3% of filter capacity, which is much lower than that of 3%~5% for other similar filters, reduce the capacity of backwashing dirty water.
- 02** 滤网使用寿命长：滤网使用最长可达10年。
Service life of filter screen can last up to 10 years.
- 03** 过滤可连续运行反洗、过滤互不影响。
Continuous filtration, interaction effects.
- 04** 滤网更换方便：独立网片，可独立拆除，而不影响其他滤网。
Easy replacement of filter screen, independent screen plates free of interaction effects.
- 05** 耐冲击负荷强：设备在进水ss不高于40mg/L情况下，可正常运行。
High pollutant-resistance, the maximum feed SS is up to 40mg/L.
- 06** 水头损失小：水头损失小于30cm。
Filter head loss is no more than 0.3m.
- 07** 处理效果好：出水水质ss小于10mg/L。
Good performance: permeate water SS will be no more than 10mg/L.
- 08** 运行全自动控制。
Automatic operation and control.
- 09** 运行能耗低：耗电量小于其他同类过滤器的1/4。
Energy saving, the power consumption is less than 25% of other similar filters.
- 10** 占地面积小：在相同处理水量的情况下。转鼓过滤设备的占地面积远小于其他过滤工艺设备。
Space saving, the floor space of rotary drum filter is far less than that of other filtration devices for the same capacity.

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🐼 设备用途 / APPLICATION

设污水处理厂：出水由一级B提升至一级A标准的提标工程。

中水回用：通过本设备深度过滤其中的非溶解性悬浮微粒物质，达到水循环再利用目的。

工业废水处理：根据不同类型工业的要求，本设备可对其用水进行分离过滤处理，使相关水质达到企业使用目的，或符合有关环保的排放要求。

Sewage treatment plant: upgrading of wastewater discharge standard from grade I B to grade I A.

Water reuse: the insoluble suspended particles are separated through deep filtration to meet with standard of water reuse.

Industrial wastewater treatment: after separation and filtration of the wastewater to meet with relevant industry water quality requirements or discharge requirements of environment protection.

🐼 工作原理 / WORKING PRINCIPLE

污水流入空心转鼓内，由于重力的作用由滤网内侧向外侧流出，水中的悬浮物被截留在不锈钢滤网内侧，运行时转鼓缓慢转动。当达到设定的反洗条件时开始进行反洗过程，反冲洗泵抽取过滤后出水对滤网进行反冲洗。冲洗水通过位于转鼓顶部的喷头由滤网外侧向内侧对滤网进行冲洗，冲洗下来的颗粒物由滤渣收集槽收集，并通过排污管道排出设备。

Raw water fills into the hollow drum, and pass through the stainless steel filter screen from inside to outside under gravity, while solids in the water are intercepted inside the filter screen. Filter drum rotate slowly during operating. Once activated of a backflushing cycle, filtered clean water under the pumping pressure of the backwashing pump begins backflushing the filter screen from outside to inside. Solids and sludge fall off the screen, collected by the collecting trough and discharged from the drain manifold.



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PURIFICATION IN ACTION

	BOR RDF-2000	BOR RDF-4000	BOR RDF-6000
Capacity 处理能力 (m ³ /d)	10000	20000	30000
Dimension 外形尺寸 (mm) L*W*H	2050*1990*2400	3000*1900*2400	4100*1990*2400
Housing Diameter 滤筒直径 (mm)	1500		
Length of Housing 滤筒长度 (mm)	1020	1960	2920
Inlet/Outlet Flange 进出水管管径 (mm)	DN500	DN600	DN700
Screen Micron Rating 过滤精度 (μm)	18		
Drain Flange 排污管管径 (mm)	DN150		
Installed Power 装机功率 (kw)	Driving Power0.75 Backwashing Power2.2 驱动0.75, 反冲洗水泵2.2	Driving Power1.1 Backwashing Power2.2 驱动1.1, 反冲洗水泵2.2	Driving Power1.5 Backwashing Power3 驱动1.5, 反冲洗水泵3
Backwashing Pressure 冲洗压力 (MPa)	0.6		
Water Consumption 冲洗水量 (m ³ /d)	38	76	114
Head Loss 水头损失 (cm)	<30		
Weight 设备重量 (t)	1.4	1.7	2.1

