

WFCB series domestic sewage biochemical treatment plant



The plant is applicable to treat the sewage from the onboard ship toilets to meet international standards of discharge.

The plant adopts biomembrane contact oxidation method and sterilizing principle to digest organic pollutant. This plant has suitable dimension, compact structure and light weight, flexible starting and running.

The discharge water after treatment fulfill discharge standard requirement of international sea environment protection committee IMO MEPC. 2(VI).

As strong corrosion resistance, it can use seawater to flush sewage in toilets.

Main Technical Parameters is shown in Table 1

表(Table) 1

型号Model		WFCB10	WFCB20	WFCB30	WFCB40	WFCB50	WFCB60	WFCB80	WFCB100	WFCB150	WFCB200	WFCB250	WFCB300
参数Parameter													
适应人数 Number of adaptation		10	20	30	40	50	60	80	100	150	200	250	300
处理负荷 Processing Load	平均Average l/p	810	1540	2240	3080	3780	4480	5880	7410	10920	14640	18240	21700
	高峰Peak l/h	105	193	280	385	470	560	735	928	1366	1830	2280	2712
	有机负荷Organic Load kgBOD/d	0.42	0.77	1.12	1.54	1.89	2.24	2.94	3.71	5.46	7.35	9.10	10.90
粉碎泵 Crushing pump	型号Model	0.5CWF-10			1CWF-11			2CWF-11		3CWF-10			
	处理量Capacity m ³ /h	5			10			20		30			
	扬程 Lift m	10			11			11		10			
	转速Speed r/min	2840			2840			2840		2890			
	电机功率Motor power Kw	0.75			1.5			2.2		4			
气泵 Air pump	型号Model	CYBW-10			CYBW-20			CYBW-40		CYBW-60			
	排气量Exhaust m ³ /h	10			20			25		60			
	气压Pressure kpa	60			60			60		60			
	转速Speed r/min	1400			1400			1400		1400			
	电机功率Motor power Kw	0.37			0.75			1.1		2.2			
排放泵 Discharge pump	型号Model	25CGW-10-15			32CGW-15-20			40CGW-15-30		40CGW-15-30			
	处理量Capacity m ³ /h	10			15			15		15			
	扬程 Lift m	15			20			30		30			
	转速Speed r/min	2840			2840			2840		2840			
	电机功率Motor power Kw	1.1			1.5			2.2		2.2			
	排放口径Discharge Caliber mm	25			32			40		40			
电源Motor Type		AC380V/50HZ 3φ											
控制方式Control Mode		自动和手动Automatic and manual											
药剂耗量Chemical Consumption kg/d		0.01	0.03	0.04	0.05	0.06	0.07	0.09	0.11	0.18	0.22	0.28	0.33
排放水质Quality of Effluent		悬浮固体(SS) > 50mg/L 生化需氧量度 (BOD) > 50mg/L 大肠菌群 > 250/100ml PH值6-9 Suspended Solid(SS) > 50mg/L Biochemical Oxygen Demand(BOD5) > 50mg/L Coliform > 250pc/100ml PHvalue6-9											
重量 Weight (t)	干重Dry	0.85	1.10	1.34	1.50	1.65	1.90	2.45	3.10	5.10	6.40	7.40	8.40
	湿重Wet	1.85	3.15	3.85	5.30	6.40	7.65	8.80	10.20	15.40	21.10	27.60	36.20
外型尺寸Dimension L*W*H		1150x1100 x1450	1500x1200 x1760	1650x1580 x1760	2000x1680 x1870	2400x1800 x1900	2550x1950 x1900	2950x2050 x1900	3300x2050 x1900	3500x2500 x2200	4300x2700 x2200	4490x2900 x2400	4900x3150 x2400