

Jinbo Marine

Marine & Offshore Equipment Datasheet

PRODUCT DATASHEET

SEWAGE TREATMENT PLANT

WFCB Series Domestic Sewage Biochemical Treatment Plant

Suitable for 10-100 persons

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

Category	Sewage Treatment Plant
Standard	CB
Material	Carbon Steel
Weight / Size	Model parameter WFCB10 WFCB20 WFCB30 WFCB40 WFCB50 WFCB60 WFCB80 WFCB100...
Certificate	CCS BV GL DNV

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.



Technical Specifications

Category	Sewage Treatment Plant	Model / SKU	WFCB-Series-Domestic-Sewage-Biochemical-Treatment-Plant
Standard	CB	Material	Carbon Steel



Weight / Size

Model parameter WFCB10
WFCB20 WFCB30 WFCB40
WFCB50 WFCB60 WFCB80
WFCB100 WFCB150 WFCB200
WFCB250 WFCB300 Number of
adaptation 10 20 30 40 50 60 80
100 150 200 250 300 Processing
Load Average l/p 810 1540 2240
3080 3780 4480 5880 7410 10920
14640 18240 21700 peak l/h 105
193 280 385 470 560 735 928
1366 1830 2280 2712 organic load
BOD5/d(KG) 0.42 0.77 1.12 1.54
1.89 2.24 2.94 3.71 5.46 7.35 9.1
10.9 Crushing pump model
0.5CWF-10 1CWF-11 2CWF-11
3CWF-10 capacitym³/h 5 10 20 30
lift m 10 11 11 10 speed r/min
2840 2840 2840 2890 motor
power kw 0.75 1.5 2.2 4 Air pump
model CYBW-10 CYBW-20
CYBW-40 CYBW-60 exhoust m³/h
10 20 25 60 pressure kpa 60 60
60 60 speed r/min 400 400 400
400 motor power kw 0.37 0.75 1.1
2.2 Discharge pump model
25CGW-10-15 32CGW-15-20
40CGW-15-30 40CGW-15-30
capacitym³/h 10 15 15 15 lift m 15
20 30 30 speed r/min 2840 2840
2840 2840 motor power kw 1.1 1.5
2.2 2.2 discharge caliber mm 25
32 40 40 Motor type 3-phase
AC380V/50Hz Control mode
Automatic and Manual 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 Quality of effluent
SS>50mg/L BOD>50mg/L
Coliform>250pc/L Phvalue 6-9
Weight Dry(T) 0.85 1.1 1.34 1.5
1.65 1.9 2.45 3.1 5.1 6.4 7.4 8.4
Wet(T) 1.85 3.15 3.85 5.3 6.4 7.65
8.8 10.2 15.4 21.1 27.6 36.2
Dimension L*W*H(mm) 1150
*1100 *1450 1500 *1200 *1760
1650 *1580 *1760 2000 *1680
*1870 2400 *1800 *1900 2550
*1950 *1900 2950 *2050 *1900
3300 *2050 *1900 3500 *2500
*2200 4300 *2700 *2200 4490
*2900 *2400 4900 *3150 *2400

Certificate

CCS BV GL DNV

	The plant is applicable to treat the sewage from the onboard ship toilets to meet international standards of discharge.		
Warranty	12 Months unless specified otherwise	Origin	China

China WFCB Series Domestic Sewage Biochemical Treatment Plant:

Model	WFC B10	WFC B20	WFC B30	WFC B40	WFC B50	WFC B60	WFC B80	WFCB 100	WFCB 150	WFCB 200	WFCB 250	WFCB 300	
parameter													
Number of adaptation	10	20	30	40	50	60	80	100	150	200	250	300	
Processing Load	Average l/p	810	1540	2240	3080	3780	4480	5880	7410	10920	14640	18240	21700
	peak l/h	105	193	280	385	470	560	735	928	1366	1830	2280	2712
	organic load BOD5/d(K G)	0.42	0.77	1.12	1.54	1.89	2.24	2.94	3.71	5.46	7.35	9.1	10.9
Crushing pump	model	0.5CWF-10			1CWF-11			2CWF-11		3CWF-10			
	capacity m ³ /h	5			10			20		30			
	lift m	10			11			11		10			
	speed r/min	2840			2840			2840		2890			
	motor power kw	0.75			1.5			2.2		4			
Air pump	model	CYBW-10			CYBW-20			CYBW-40		CYBW-60			
	exhaust m ³ /h	10			20			25		60			
	pressure kpa	60			60			60		60			
	speed r/min	400			400			400		400			
	motor power kw	0.37			0.75			1.1		2.2			

Discharge pump	model	25CGW-10-15			32CGW-15-20			40CGW-15-30			40CGW-15-30		
	capacity m ³ /h	10			15			15			15		
	lift m	15			20			30			30		
	speed r/min	2840			2840			2840			2840		
	motor power kw	1.1			1.5			2.2			2.2		
	discharge caliber mm	25			32			40			40		
Motor type		3-phase AC380V/50Hz											
Control mode		Automatic and Manual											
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
Quality of effluent		SS>50mg/L BOD>50mg/L Coliform>250pc/L Phvalue 6-9											
Weight	Dry(T)	0.85	1.1	1.34	1.5	1.65	1.9	2.45	3.1	5.1	6.4	7.4	8.4
	Wet(T)	1.85	3.15	3.85	5.3	6.4	7.65	8.8	10.2	15.4	21.1	27.6	36.2
Dimension L*W*H(mm)		1150 *1100 *1450	1500 *1200 *1760	1650 *1580 *1760	2000 *1680 *1870	2400 *1800 *1900	2550 *1950 *1900	2950 *2050 *1900	3300 *2050 *1900	3500 *2500 *2200	4300 *2700 *2200	4490 *2900 *2400	4900 *3150 *2400

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 fulfills 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.