

PRODUCT CONFORMITY MARKING



ENVI-PUR, s.r.o., Na Vlčovce 13/4, 160 00 Praha 6 - Dejvice

Company ID: 25166077

08

EN 12566-3

Biological activation wastewater treatment plant

BIO CLEANER BC .. PP BASIC, BIO CLEANER BC .. PP OPTIMA, BIO CLEANER BC .. PP COMFORT, BIO CLEANER BC .. PP EXCLUSIVE - / UV
 BIO CLEANER BC .. K PP BASIC, BIO CLEANER BC .. K PP OPTIMA, BIO CLEANER BC .. K PP COMFORT, BIO CLEANER BC .. K PP EXCLUSIVE - / UV
 BIO CLEANER BC .. PE BASIC, BIO CLEANER BC .. PE OPTIMA, BIO CLEANER BC .. PE COMFORT, BIO CLEANER BC .. PE EXCLUSIVE - / UV
 BIO CLEANER BC .. SL BASIC, BIO CLEANER BC .. SL OPTIMA, BIO CLEANER BC .. SL COMFORT, BIO CLEANER BC .. SL EXCLUSIVE - / UV
 BIO CLEANER BC .. K SL BASIC, BIO CLEANER BC .. K SL OPTIMA, BIO CLEANER BC .. K SL COMFORT, BIO CLEANER BC .. K SL EXCLUSIVE - / UV
 BIO CLEANER BC .. B BASIC, BIO CLEANER BC .. B OPTIMA, BIO CLEANER BC .. B COMFORT, BIO CLEANER BC .. B EXCLUSIVE - / UV
 BIO CLEANER BC .. PP N BASIC, BIO CLEANER BC .. PP N OPTIMA, BIO CLEANER BC .. PP N COMFORT, BIO CLEANER BC .. PP N EXCLUSIVE - / UV
 BIO CLEANER BC .. B N BASIC, BIO CLEANER BC .. B N OPTIMA, BIO CLEANER BC .. B N COMFORT, BIO CLEANER BC .. B N EXCLUSIVE - / UV

Nominal daily flow (m³/day): 0,6; 0,9; 1,2; 1,5; 1,8; 2,25; 2,4; 3,0; 3,75; 4,5; 5,25; 6,0; 6,75; 7,5 *

Nominal organic daily load (kg BSK₅/den) 0,24; 0,36; 0,48; 0,60; 0,72; 0,90; 0,96; 1,20; 1,50; 1,80; 2,10; 2,40; 2,70; 3,00 *

Material: PP, PE, stainless steel, concrete *

Water tightness (water test): complied with the standard

Compressive strength (at the failure limit): complied with the calculation

Durability: complied with the standard

Fire resistance: F

Effect of hazardous substances: NPD

Cleaning performance in the test according to EN 12566-3 at organic daily load BOD₅ = 0.208 kg/d and at 0.306 kg / d:

Indicator	Values at the effluent (mg/l)	Efficiency (%)
BOD ₅	XX	XX
COD	XX	XX
SS	XX	XX
N-NH ₄ ⁺ **	XX	XX
N _{tot}	XX	XX
P _{tot} ***	XX	XX
Enterococci	XX (KTJ/100ml)	XX
Escherichia coli	XX (KTJ/100ml)	XX
Fecal colif. bacteria	XX (KTJ/100ml)	XX
Colif. Bacteria	XX (KTJ/100ml)	XX
Somat. collies	XX (PTJ/ml)	XX

*..... according to the size and variant of the WWTP

**..... at activation mixture temperatures above 12°C

***..... with a dosing device to reduce the phosphorus concentration

XX..... according to the given model with the mentioned possible additional equipment (phosphorus precipitation, UV disinfection, etc.) see Technical specification - parameters of purified water

PRODUCER:

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or

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Technical specification - parameters of treated water

Purified water parameters ⁴⁾	BASIC P-LESS, OPTIMA P-LESS, COMFORT P-LESS		EXCLUSIVE P-LESS		BASIC P-LESS DUO, OPTIMA P-LESS DUO, COMFORT P-LESS DUO		EXCLUSIVE P-LESS DUO	
	Output values	Efficiency	Output values	Efficiency	Output values	Efficiency	Output values	Efficiency
COD (mg/l)	29	96 %	32	95 %	24	97 %	31	96 %
BOD ₅ (mg/l)	4	98 %	5	98 %	3	99 %	4	98 %
SS (mg/l)	10	97 %	17	95 %	8	98 %	20	94 %
N-NH ₄ ⁺ (mg/l) ^{*)}	16	71 %	15	73 %	13	80 %	15	81 %
Ntotal (mg/l) ^{3) **)}	25	64 %	25	64 %	28	59 %	28	59 %
Ptotal (mg/l) ^{***)}	1,1	94 %	1,5	91 %	0,9	95 %	1,6	90 %

Purified water parameters ⁴⁾	EXCLUSIVE UV P-LESS		EXCLUSIVE UV P-LESS DUO	
	Output values	Efficiency	Output values	Efficiency
COD (mg/l)	32	95 %	31	96 %
BOD ₅ (mg/l)	5	98 %	4	98 %
SS (mg/l)	17	95 %	20	94 %
N-NH ₄ ⁺ (mg/l) ¹¹⁾	15	73 %	15	81 %
Ntotal (mg/l) ^{3) 12)}	25	64 %	28	59 %
Ptotal (mg/l) ¹³⁾	1,5	91 %	1,6	90 %
Enterococci ¹⁴⁾	3 KTJ/100 ml ₅₎	99,99 %	0 KTJ/100 ml ₅₎	100 %
Escherichia coli ¹⁴⁾	2 KTJ/100 ml ₅₎	99,99 %	0 KTJ/100 ml ₅₎	100 %
Fecal coliform bacteria ¹⁴⁾	7 KTJ/100 ml ₅₎	99,99 %	1 KTJ/100 ml ₅₎	100 %
Coliform bacteria ¹⁴⁾	48 KTJ/100 ml ₅₎	99,99 %	5 KTJ/100 ml ₅₎	100 %
Somatic hummingbirds ¹⁴⁾	0 PTJ/100 ml ₅₎	100 %	0 PTJ/100 ml ₅₎	100 %

Purified water parameters ⁴⁾	BASIC, OPTIMA, COMFORT		BASIC DUO, OPTIMA DUO, COMFORT DUO	
	Output values	Efficiency	Output values	Efficiency
COD (mg/l)	49	92 %	27	94 %
BOD ₅ (mg/l)	5,6	98 %	3	99 %
SS (mg/l)	13	96 %	7	97 %
N-NH ₄ ⁺ (mg/l) ¹¹⁾	10	77 %	2,4	96 %
Ntotal (mg/l)	-	-	44	51 %
Ptotal (mg/l)	-	-	7,9	19 %

Comment:

the stated values, which correspond to the "Declaration of performance", are the values achieved according to ČSN EN 12566-3 + A2

1) EO = population equivalent is defined by the production of pollution of 60 g BOD₅ per day and the production of wastewater 150 l/day

2) the nominal material and hydraulic load of the treatment plant must not be exceeded

3) at input load N total max. 11 g/person*d

4) average value of all results

5) geometric diameter

11) if the temperature of the wastewater at the outlet from the biological stage will not be lower than T > 12 °C

12) if the temperature of the wastewater is in the range of values Tmin = 3.4 °C; Tmax = 19.8 °C

13) with equipment for chemical precipitation of phosphorus

14) with a UV device for disinfection of treated wastewater

Signed for and on behalf of the manufacturer:

In Soběslav on 1. 4. 2020



Milan Drda

CEO of ENVI-PUR s.r.o.

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