Parameters of WWTPs BC biocleaner 16 – 200

BC biocleaner	Amount of WW (m^3/day)	BOD_5 load (g/day)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
BC 16	2.40	960	2 410	2 250	2 580	900
BC 20	3.00	1 200	3 250	2 410	2 080	1 000
BC 25	3.75	1 500	3 750	2 410	2 280	1 300
BC 30	4.50	1 800	4 000	2 410	2 580	1 400
BC 40	6.00	2 400	4 250	2 410	2 880	1 900
BC 50	7.50	3 000	5 250	2 410	2 880	2 000
BC 51	7.65	3 060	4 250	2 410	2 580	1 800
BC 75	11.25	4 500	4 250	2 410	2 880	2 000
BC 100 SLIM	15.0	6 000	6 250	2 410	2 880	2 000
BC 100	15.0	6 000	6 250	2 650	2 880	2 000
BC 150 SLIM	22.5	9 000	7 110	2 410	2 880	3 000
BC 150	22.5	9 000	7 110	2 650	2 880	3 000
BC 200 SLIM	30.0	12 000	2 750 + 7 250	2 410	2 880	4 500

Parameters of WWTP assemblies BC biocleaner 200 – 800

BC biocleaner	Amount of WW (m^3/day)	BOD_5 load (g/day)	Number of tanks	Weight (kg)	PP bioreactor L×W×H (m)	PP sludge holding tank L×W×H (m)	
BC 2×100 SLIM	30.0	12 000	3	4 500	2×(6.25×2.41)×2.88	6.25×2.41×2.88	A
BC 2×150 SLIM	45.0	18 000	3	6 500	2×(7.11×2.41)×2.88	7.11×2.41×2.88	B
BC 3×150 SLIM	67.5	27 000	4	10 000	3×(7.11×2.41)×2.88	7.11×2.41×2.88	C
BC 2×200 SLIM	60.0	24 000	5	8 500	2×(2.75×2.41+7.25×2.41)×2.88	7.11×2.41×2.88	D
BC 3×200 SLIM	90.0	36 000	7	12 500	3×(2.75×2.41+7.25×2.41)×2.88	7.11×2.41×2.88	E
BC 4×200 SLIM	120.0	48 000	10	17 000	4×(2.75×2.41+7.25×2.41)×2.88	2×7.11×2.41×2.88	F

10 m

Assembly layout examples
- Sludge holding tank
- Denitrification
- Activation tank

Treated water parameters

Parameter	Output values	Efficiency
COD_{Cr}	32 mg/l	95 %
BOD_5	5 mg/l	98 %
SS	17 mg/l	95 %
N_{total} (T_{min} = 3.4°C; T_{max} = 19.8°C)	23 mg/l	65 %
P_{total} (with P-less)	1.4 mg/l	92 %
With UV lamp	**Output values**	**Efficiency**
Enteroccoci	3 CFU/100 ml	99.99 %
Escherichia coli	2 CFU/100 ml	99.99 %
Coliform bacteria	48 CFU/100 ml	99.99 %
Somatic coliphage	0 PFU/100 ml	99.99 %

- **Variable possibilities** of assembly and adjustment of treatment plants when increasing the number of PE.
- **Variable building layout** of treatment plants to increase capacity.

Our dealer will take care of you in your region.

envi pur rethinking water

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Waste Water Treatment Plants

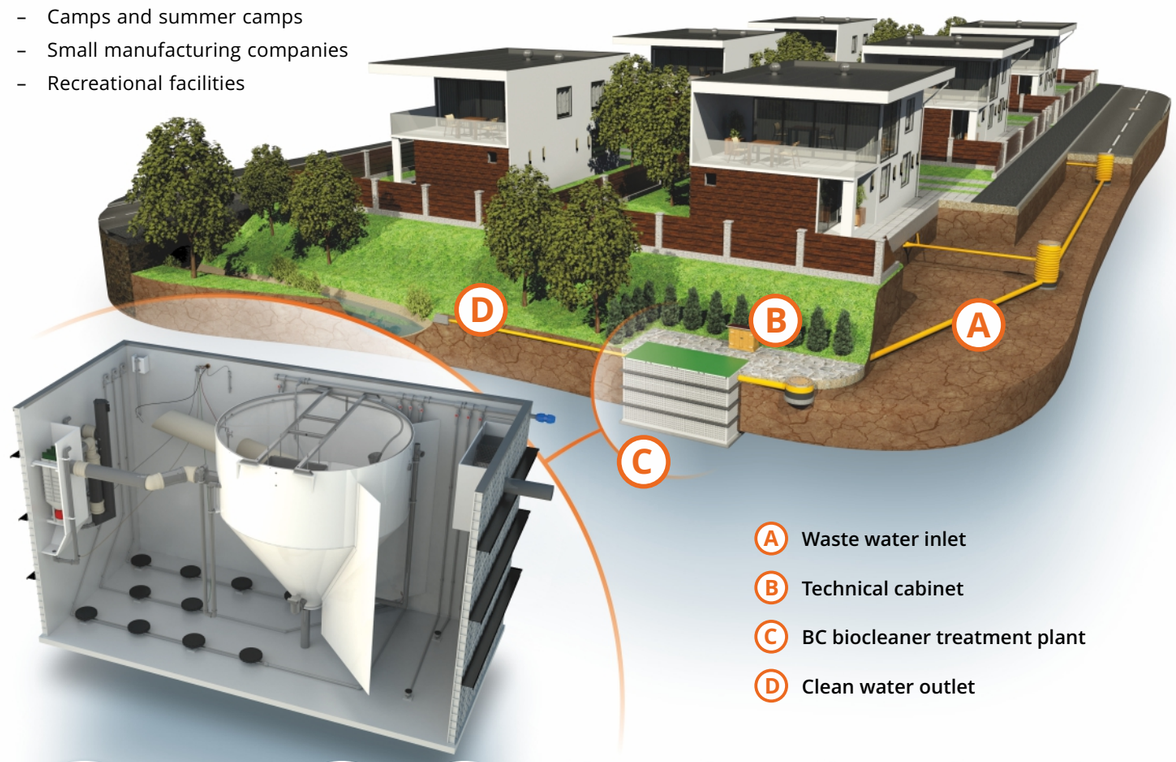
CONTAINERISED WASTE WATER TREATMENT PLANTS

The BC biocleaner® container treatment plants are designed for biological treatment of wastewater from smaller sources of pollution. The treatment plant works on the principle of an aerobic treatment process in a continuous D-N system (denitrification and nitrification) and treats municipal, waste and industrial water. The treated water meets the prescribed limits for the content of nitrogen, phosphorus and undissolved substances and can thus be discharged into surface water or groundwater. The BC biocleaner® treatment plants meet all standards and regulations valid in the Czech Republic and in the European Union and thus meet the requirements for modern ecological housing.

SUITABLE SOLUTIONS FOR:

- Residential houses
- Small towns and villages
- Guest houses and hostels
- Camps and summer camps
- Small manufacturing companies
- Recreational facilities

CE The BC biocleaner is certified under EN 12566-3+A2



- A Waste water inlet
- B Technical cabinet
- C BC biocleaner treatment plant
- D Clean water outlet

IN THE MARKET 25 YEARS EXPERIENCE & INNOVATIONS

COMPACT DESIGN · FAULT-FREE OPERATION · HIGH EFFICIENCY · SIMPLE CONTROL · EASY CLEANING · QUIET OPERATION · VARIABLE DESIGN

WASTE WATER TREATMENT PLANT BC biocleaner EXCLUSIVE

1 Denitrification zone
- A Raw water inlet
- B Inlet screens
- C Air distributor
- D Coarse-bubble diffuser

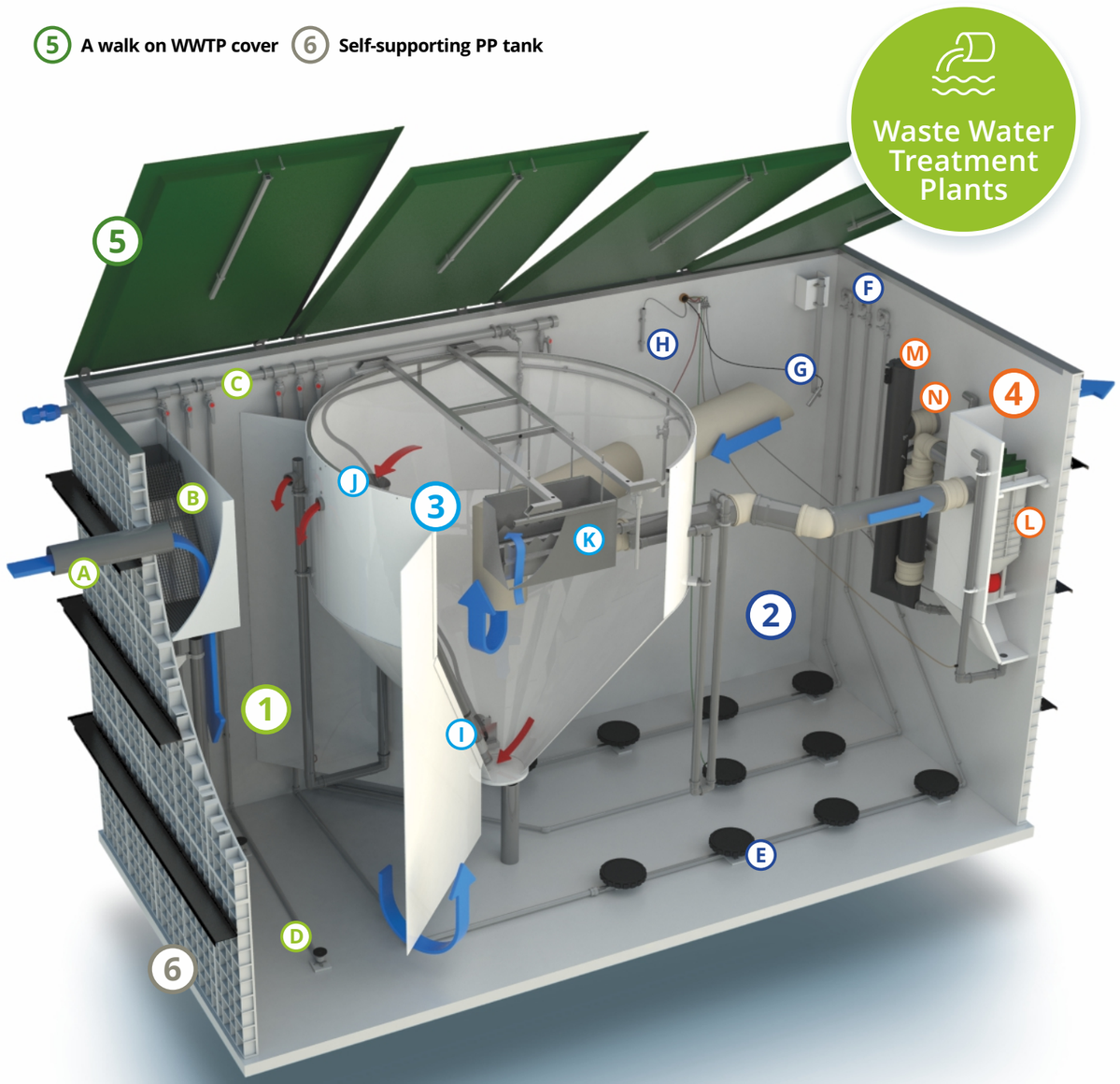
2 Nitrification zone
- E Fine-bubble diffuser
- F Aeration condensate drain
- G Oxygen / pH probe
- H Phosphorus precipitation

3 Sedimentation zone
- I Sludge recirculation
- J Skimmer
- K Settled water through

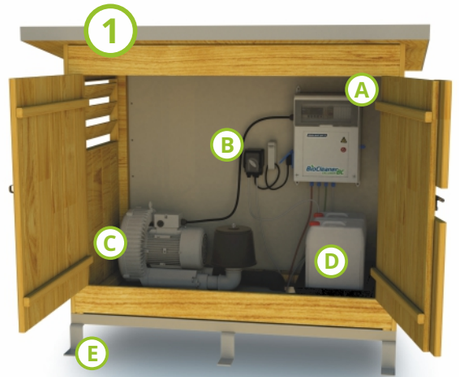
4 Final treatment zone
- L Tertiary filter
- M UV disinfection
- N Clean water outlet

5 A walk on WWTP cover

6 Self-supporting PP tank

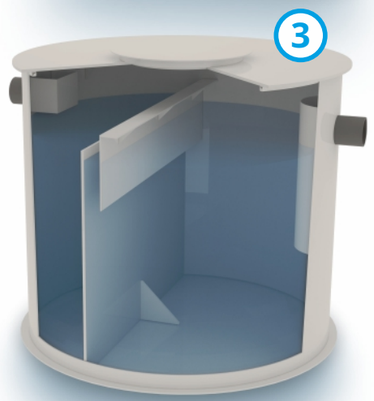


WASTE WATER TREATMENT PLANT'S ACCESSORIES

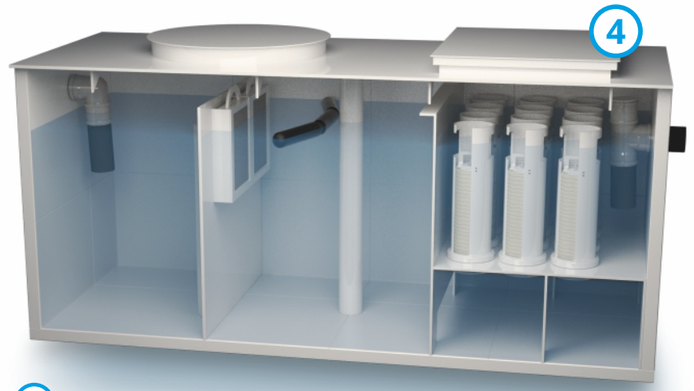


1 Technical cabinet
- A Control unit
- B Dosing pump
- C Air blower
- D Barrel with PAX
- E Ground anchoring

2 Sludge dewatering plant



3 Grease Trap



4 Oil separator

5 Oxygen / pH probe

6 Phosphorus precipitation

7 UV disinfection

We also offer various add-ons:
- **Mechanical pre-treatment**
- **Reinforcement for backfill**
- **Deep installation extension**
- **Drainage wells**
- **Sludge sumps**
- **Measuring of suspended solids**
- **Light and sound alarm**
  error black out, oxygene probe, airblower, chemical dosing
- **Optional concrete tanks**

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