



# Wastewater Treatment Plants



AZERBAIJAN,  
BELORUSSIA,  
BULGARIA,  
BURKINA FASO,  
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CROATIA,  
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MONTE NEGRO,

MAROCCO,  
POLAND,  
ROMANIA,  
RUSSIA,  
SLOVAKIA,  
SLOVENIA,  
SPAIN,

SRI LANKA,  
SWEDEN,  
UKRAINE,  
etc.

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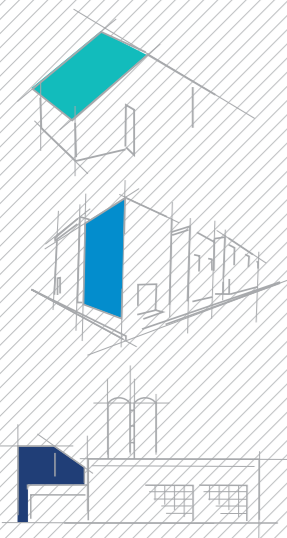
Nad Rezkovcem 1114, 286 01 Caslav, Czech Republic  
tel.: + 420 327 313 001-3, [topas@topolwater.com](mailto:topas@topolwater.com)

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complex solutions for wastewater treatment

# Wastewater Treatment Technologies



**TOPAS** at container WWTP is treated **120 000 PE**

**FLEXIDIBLOK** at municipal WWTP is treated **160 000 PE**

**INDUSTRIAL** at industrial WWTP is treated **45 000 PE**

More than **325 000 PE** is treated at our WWTP



Romania - Ghera Mare  
Flexidiblok - 3 000 PE



Sri Lanka  
Monoblok - T - 500 PE

## MUNICIPAL WWTP (from 500 to 50 000 PE)

Biological wastewater treatment plants for municipality:  
MONOBLOK-T (capacity up to 1000 PE)  
FLEXIDIBLOK (capacity over 1000 PE)

Biological WWTP with intermittent operation, consisting of:

- Equalizing tank
- SBR reactor
- Aerated sludge storage tank
- Mechanical fine screen
- Sludge management
- Operating control unit
- Tertiary treatment

Advantages of municipal WWTP:

- High quality of treated water - nitrification, de-nitrification, biological and chemical phosphorus removal
- Fully automated operation with remote control
- Low maintenance and operation costs
- Enables intensification and reconstruction as the technological part can be installed into existing tanks
- Possibility of two phase construction:  
1<sup>st</sup> phase – Monoblok – T  
2<sup>nd</sup> phase – Flexidiblok
- Ideal solution for continuous extending of sewerage systems

## CONTAINER WWTP (from 5 PE)

TOPAS - container treatment plants suitable for: single houses, hotels, small workrooms, restaurants, summer houses with irregular operation, etc.

Biological WWTP TOPAS:

- Internationally patented
- CE certificate
- In-built sand filter
- Low maintenance requirements
- WWTP control operation
- Many awards from exhibitions
- 99% efficiency of treatment
- Excess sludge storage tank

Advantages of container WWTP:

- Equalizing tank situated at inflow
- Outlet can be located higher than inflow
- Fully functioning without any inflow for min. 3 months
- Tank for treated water can be in-built
- Sound signalization of errors
- Excess sludge storage tank
- Removable technology
- Optional height of inflow adjusted on-site



Finland  
TOPAS - 350 PE



France - Beaudemont  
TOPAS 10 PE

## INDUSTRIAL WWTP

Suitable use for production plants such as:

- Meat processing
- Slaughterhouses
- Dairies
- Poultry farms
- Soft drinks factories
- Fish processing

Chemical-physical pre-treatment followed by biological treatment in SBR reactor (Monoblok-T, Flexidiblok) based on requirements the technological line can consist of:

- Homogenization
- Neutralization
- Dissolved Air Flotation (D.A.F.)
- Coagulation
- Chemical treatment
- Tertiary treatment
- Nutrients adding

Advantages of industrial technologies:

- Biological purification can be supplemented with chemical wastewater pre-treatment – e.g. D.A.F. unit
- Industrial WWTP are provided with sludge disposal technology, such as machines for sludge removal - filter press, dehydrator or centrifuge
- Technology is suitable for reconstruction of existing WWTP
- "Made –to-measure" solutions including building design



Czech Republic - Kofola  
Flexidiblok - 6 000 PE



Czech Republic - Vimperk  
Flexidiblok - 6 600 PE