



MULTIFUNCTIONAL PRE-TREATMENT UNIT

THE BEST SOLUTION,
IF YOU THINK ABOUT
CLEAN WATER



ALL
FOR
WATER

IN-EKO
TEAM

Multifunctional pre-treatment unit – a modern solution for waste water treatment

Multifunctional pre-treatment units are important part of modern waste water treatment plants as well as of our portfolio of products designed for preliminary treatment of waste water.

They are produced in three designs:

MZ_I – economical version, MZ_II – sophisticated version, MZG – sophisticated version for high flow rates.

MZ_I and MZ_II

Combined pre-treatment includes a sand and heavy sediment trap, screens and optionally, aeration with automatic grease removal. The unique design integrates all these features into one compact tank. MZ_I and MZ_II are equipped with patented Circular bar screens, ensuring high capacity with minimum space

requirements, easy screen cleaning and resistance to clogging, especially by fiber materials. In comparison with conventional systems, both versions have minimal space requirements and offer integrated bypass of the screens included in the tank.



MZ_I

Unit with one conveyor for both screenings, sediments, and sand. An economical version with minimal space requirements.

Type	Qmax [l/s]
MZ_I_5	5
MZ_I_10	10
MZ_I_20	20
MZ_I_30	30



MZ_II

Unit with two conveyors, one for screenings and the other for trapped sand and sediments. Compared to MZ_I, this option is more sophisticated with slightly higher space requirements. It can be equipped with aeration and grease removal.

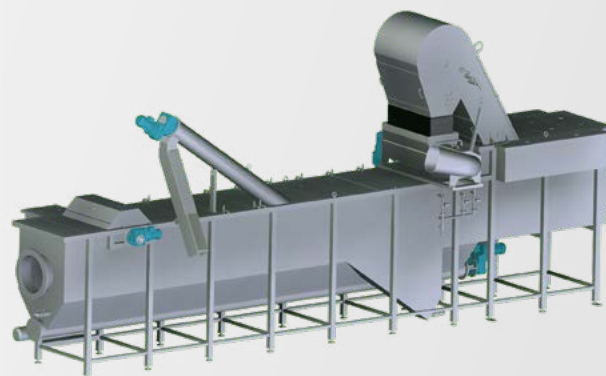
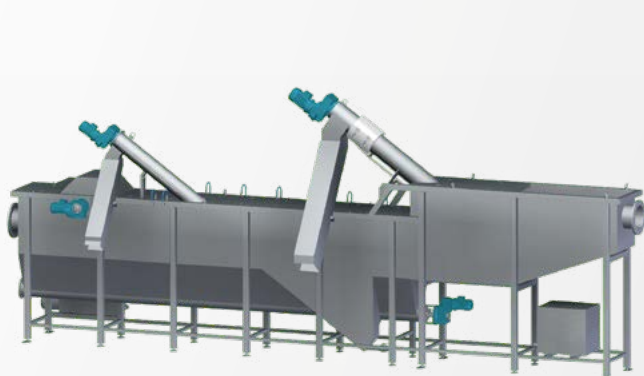
Type	Qmax [l/s]
MZ_II_10	10
MZ_II_20	20
MZ_II_30	30

Special screen system enables easy, efficient and quick cleaning → long life span of cleaning brushes.

MZG

Combined pre-treatment consists of a sand and heavy sediment trap, screens, a press for screenings and optionally, aeration and grease removal. This model includes a tank with Screens which can be either Belt screens or Straight screw screens. It is followed by

a sedimentation tank with a longitudinal conveyor for sand and heavy sediments which are then conveyed by an inclined conveyor. The tank's design offers minimal space requirements while maintaining high efficiency.



MZG_CSP

The unit equipped with a separate discharge for dewatered screenings and another discharge for sand and heavy sediments. Aeration and grease removal are optional. It is equipped with Screw screens.

MZG_CP

The unit equipped with a separate discharge for dewatered screenings and another discharge for sand and heavy sediments. Aeration and grease removal are optional. It is equipped with a Belt screens.

Type	Qmax [l/s]	Screens
MZ_35-90	35-90	CSP
MZ_35-260	35-260	CP

Advantages

- Small space requirements
- **Integrated emergency bypass of the screens**
- Design of screens for MZ_I and MZ_II prolongs durability of brushes = **cost-efficient**
- **Customized design** to suit project requirements
- High efficiency
- Patented and for years proven solution for preliminary treatment
- Washing of screenings already at the basic models
- Aeration with grease removal in MZ_II and MZG versions
- Standard AISI 304, possibility of AISI 316L and AISI 316Ti

Applications

- Pre-treatment of waste water at WWTP
- Pre-treatment of waste water from fecal stations
- Pre-treatment of industrial waste water

Applications



Doubravice (CZ), MZ_II_10



Chroustovice (CZ), MZ_I_10_Z



Kořenec (CZ), MZ_II_10_Z



Nižnij Tagil (RU), MZG_160 (CP)



Kiskunlachaza (HU), MZG_50_Z (CSP)



Úvaly (CZ), MZG_50_Z (CP)



Býšť (CZ), MZ_II_20



Wiazownica (PL), MZG_50 (CP)

More information about our multifunctional units and other units from our complete product line of pre-treatment and microfiltration of waste water can be found at www.in-eko.com.

You can contact us by phone, email or in person.



IN-EKO TEAM s.r.o. has specialized in the production of filtration and wastewater treatment units since 1995.

IN-EKO TEAM s.r.o.
Trnec 1734 | 666 03 Tišnov | Czech Republic
+420 517 070 601 | info@in-eko.cz
www.in-eko.com

ALL
FOR
WATER

IN-EKO
TEAM