

ALL FOR
WATER

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MULTIFUNCTIONAL PRETREATMENT UNIT

THE BEST SOLUTION,
IF YOU THINK ABOUT
CLEAN WATER



IN-EKO[®]
TEAM

MULTIFUNCTIONAL PRETREATMENT UNIT – MODERN SOLUTION FOR WASTE WATER TREATMENT

Multifunctional pretreatment 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.

MZ_I and MZ_II

Combined pretreatment includes sand and heavy sediment trap, screen and optional aeration with automatic grease removal. The unique design integrates all these features in one compact tank. MZ_I and MZ_II are equipped with patented Circular bar screens which ensures high capacity

They are produced in three designs:

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

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



MZ_I

Unit with one conveyor for both screenings, sediments and sand. An economic version with minimum 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 it is a more sophisticated option with slightly higher space requirements. Can be equipped with aeration and grease removal.

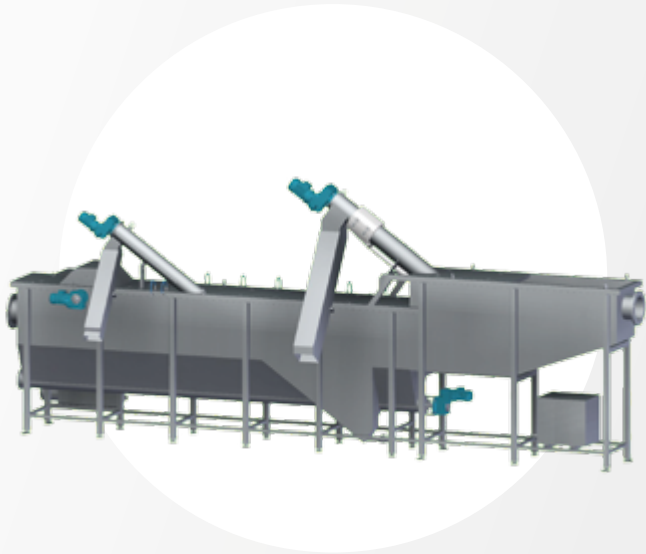
Type	Qmax [l/s]
MZ_II_10	10
MZ_II_20	20
MZ_II_30	30

**SPECIAL SCREEN SYSTEM ENABLES EASY, EFFICIENT AND QUICK CLEANING
→ LONG LIFE OF CLEANING BRUSHES**

MZG

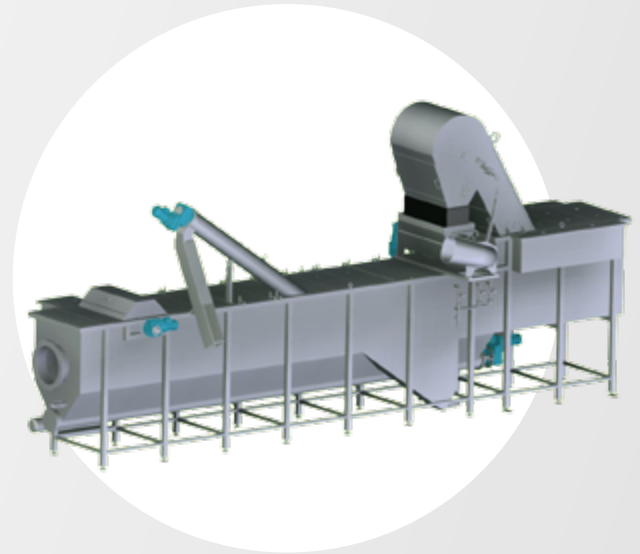
Combined pretreatment consists of sand and heavy sediment trap, screens, press for screenings and optionally aeration and grease removal. This model includes a tank with a screen which can be either belt screens or straight screw screens. It is followed by

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 minimum space requirements while maintaining high efficiency.



MZG_CSP

Unit equipped with a separate discharge for dewatered screenings and another discharge for sand and heavy sediments. Aeration and grease removal is optional. It is equipped with a screw screens.



MZG_CP

Unit equipped with a separate discharge for dewatered screenings and another discharge for sand and heavy sediments. Aeration and grease removal is 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

USE

- Pretreatment of waste water at WWTP
- Pretreatment of waste water from fecal stations
- Pretreatment of industrial waste water

REFERENCES



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 on our multifunctional unit or other units in our portfolio for preliminary treatment and filtration of waste water can be found at WWW.IN-EKO.COM.

IF YOU HAVE ANY QUERIES, PLEASE CONTACT US
BY EMAIL, PHONE OR IN PERSON.

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2017/09

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