



**MINISTERUL SĂNĂTĂȚII, MUNCII  
ȘI PROTECȚIEI SOCIALE  
AL REPUBLICII MOLDOVA**  
МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ, ТРУДА  
И СОЦИАЛЬНОЙ ЗАЩИТЫ РЕСПУБЛИКИ МОЛДОВА  
**AGENȚIA NAȚIONALĂ PENTRU SĂNĂTATE PUBLICĂ**  
НАЦИОНАЛЬНОЕ АГЕНТСТВО ОБЩЕСТВЕННОГО ЗДОРОВЬЯ  
MD-2028, mun. Chișinău, str. Gheorghe. Asachi, 67-a  
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**DOCUMENTAȚIE MEDICALĂ / Медицинская документация**  
**FORMULAR / Форма Nr. 303-2/e**  
APROBAT DE MSMPS al RM / Утверждена МЗТРС РМ  
31.10.11 Nr. 828  
Centrul de încercări de laborator acreditat de către  
Centrul Național de Acreditare din Republica Moldova MOLDAC  
Испытательный лабораторный центр аккредитованный  
Национальным Аккредитационным Центром РМ MOLDAC  
Certificat nr. LI-044 din 17.02.2018 valabil până la 16.02.2022  
Acreditat în Sistemul Ministerului Sănătății, Muncii  
și Protecției Sociale al RM  
Аккредитованный в системе Министерства Здравоохранения, Труда и  
Социальной Защиты Республики Молдова  
Certificat nr. 2293 din 24.10.2014, valabil până la 24.10.2019

**AVIZ SANITAR**  
**PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P2197/2019**  
*Санитарное заключение для пищевых и непищевых продуктов*  
din/om "16" iulie a./z. 2019

**Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor**  
*Настоящим санитарным заключением подтверждается, что производство, ввоз, использование и реализация продукции / оборудования*

**Stații de epurare biologică a apelor uzate menajere de tip „AT6 – AT750” cu capacitatea**  
**de la 0,54 m<sup>3</sup>/zi pînă la 200,0 m<sup>3</sup>/zi**

**sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica**  
*denumirea completă a Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов)*

**HG nr.950 din 25.11.2013**

**Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения**  
**Republica Lituania, compania „August ir KO”**

**Destinatarul avizului sanitar / получатель санитарного заключения**  
**S.C.„TILUANA” SRL, mun.Chișinău, str.M.Spătaru 17, ap.10, tel/fax 022 999-031/2**

**Ca temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /**  
*Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило*

**Demers, certificat No.00002/TSUS/Y/2013 din 22.01.2013 eliberat de R. Slovacia, extras din**  
**procesul verbal de încercări nr. 1 din 27.06.2016 eliberat de SA „Apă-Canal Chișinău”**  
*(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исследований)*

**Caracteristica sanitară a produselor / санитарная характеристика продукции:**

<b>Parametrii (factorii) / показатели (факторы)</b>	<b>Normativul sanitar / санитарный норматив</b>
CBO <sub>5</sub> , mg O <sub>2</sub> /l	< 25,0
CCO, mg O <sub>2</sub> /l	< 125,0
Număr bacterii coliforme lactizopozitive, UFC/l	5000
Alți parametri corespund prevederilor HG nr.950 din 25.11.2013	

**Domeniu de utilizare / Область применения:** **Epurarea biologică a apelor menajere**  
**și de producere pentru localități și obiective separate**

**Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия**  
*использования, хранения, транспортировки, меры безопасности:* **Avizarea suplimentară a amplasării**  
**instalațiilor și evacuării apelor epurate în fiecare caz concret.**

**AVIZUL SANITAR este valabil pînă la / Санитарное Заключение действительно до: 20 iulie 2020**

**DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ**

**Nicolae FURTUNĂ**  
*(numele, prenumele/ Ф.И.О.)*  
**10-XVI-09**



*(semnătura / подпись)*

**ANSP/HA03**

**0001850**

**03**



S.A. "Apă-Canal Chișinău"

Departamentul asigurarea calității, control și reglementare

MD 2005, or. Chișinău, str. Albișoara tel / fax 22-23-49 [www.acc.md](http://www.acc.md) e-mail: [acc@mtc.md](mailto:acc@mtc.md)

Serviciul laboratoare tel 25-67-21

Laboratorul ape uzate agenți economici str. Albișoara 38, tel. 22-25-67-16

Certificat de acreditare nr. LÎ- 038 (nr. anterior 01171) Data acreditării curente: 13.05.2014 Data expirării: 12.05.2018

## Raport de încercări nr. 1

din „ 27 ” Iunie 2016

Denumirea obiectului de încercări

Apă uzată

Producătorul și adresa

S.C. „TILUANA” S.R.L. mun. Chișinău,  
str. Milescu Spătaru 17/10

Data și ora prelevării

20 iunie 2016

Data și ora inițierii încercărilor

20 iunie 2016 09<sup>30</sup>

Data și ora intrării probei

20 iunie 2016 09<sup>00</sup>

Data și ora finalizării încercărilor

27 iunie 2016 11<sup>00</sup>

Probele au fost prelevate de către agent economic S.C. „TILUANA” S.R.L.

Predat agent economic

Victor Stanchevici

Primit Șef LAUAE

Mariana Țibîrnac

Nr. d/o	Denumirea indicelui	Documentația normativă a metodelor de încercări	Valorile obținute			Unități de măsură
			Nr. 1 Intrare	Nr. 2 Ieșire	% epurare	
1	Materii în suspensii	PS-02 (SM STAS 6953:2007, APA. 02.08.05)	4430,0	73,0	98,0	mg/dm <sup>3</sup>
2	Consumul chimic de oxigen	PS-08 (SM SR ISO 6060:2006, APA 02.02.05)	3131,00	98,88	96,8	mg/dm <sup>3</sup>
3	Consumul biochimic de oxigen	PS-09 (APA. 02.01.05)	600,00	6,00	99,0	mg/dm <sup>3</sup>
4	Azot amoniacal	PS-10 ( MUCCA, Iv , p. 138-144)	19,00	3,00	84,0	mg/dm <sup>3</sup>
5	Azot total	APA. 02.28.05	28,0	7,70	72,7	mg/dm <sup>3</sup>
6	Fosfați	PS-12 ( APA.02.19.05)	36,0	19,80	45,0	mg/dm <sup>3</sup>

Data predării raportului 27.06.2016

Șef LAUAE

Șef Serviciul Laboratoare

Data primirii raportului 27.06.2016

Agent economic

Victor Stanchevici



## PERFORMANCE RESULTS

**“August ir Ko” UAB**

Juodasis kelias 104A, 11307 Vilnius, Lithuania

**EN 12566-3**

Small wastewater treatment systems for up to 50 PT

**Small wastewater treatment system AT<sup>+</sup>**

Suspended growth activated sludge process in continuous-flow with  
additional phosphorus precipitation

Test report – No PIA2014-210B08.e.01

Nominal organic daily load	0.35	kg BOD <sub>5</sub> /d
Nominal hydraulic daily load	0.90	m <sup>3</sup> /d
Material	Polypropylene	
Treatment efficiency (nominal sequences)	COD	95.8 %    36.0 mg/l
	BOD <sub>5</sub>	98.7 %    5.0 mg/l
	SS	97.9 %    9.0 mg/l
	N <sub>tot</sub> *	85.2 %    10.5 mg/l
	P <sub>tot</sub>	97.1 %    0.3 mg/l
Electrical consumption	1.0	kWh/d

*\*determined for temperatures  $\geq 12^{\circ}\text{C}$  in the bioreactor*

Performance tested by:

**PIA – Prüfinstitut für Abwassertechnik GmbH**  
(PIA GmbH)  
Hergenrather Weg 30  
52074 Aachen, Germany

This document replaces neither the declaration  
of performance nor the CE marking.



Notified Body  
No. 1730



Certified according to  
ISO 9001:2008



Prüfinstitut für Abwassertechnik GmbH  
*Geprüft - tested - teste*

Elmar Lancé

June 2014





UAB "AUGUST IR KO"  
Juodasis kelias 104a  
11307 Vilnius  
Litauen

Datum und Zeichen  
Ihres Schreibens

Bei Antwort angeben  
Mein Zeichen

Telefon 0241 / 75082-20  
Telefax 0241 / 75082-29

Datum

lan

+49 - 241 / 75082-21

23.05.2007

## Bestätigung KKA-Erstprüfung

Sehr geehrter Herr Penzes,

hiermit bestätigen wir der Firma UAB "AUGUST IR KO" die Durchführung einer Kleinkläranlagenprüfung gemäß der Europäischen Norm EN 12566-3 Anhang B auf dem Prüffeld des PIA in Aachen.

Die Prüfung der Kleinkläranlage AT 10 für 8 EW begann am 31.07.06 und endete am 22.04.07. Die ermittelten Reinigungsleistungen (Prüfberichts-Nr. PIA2007-06) entnehmen Sie folgender Tabelle:

Wirkungsgrad BSB <sub>5</sub> [%]	97,2
Wirkungsgrad CSB [%]	88,1
Wirkungsgrad AFS (SS) [%]	94,0
Wirkungsgrad NH <sub>4</sub> -N [%] *	96,7
Wirkungsgrad N <sub>ges</sub> [%] *	61,7
Wirkungsgrad P <sub>ges</sub> [%]	47,4

\* für Temperaturen  $\geq 12^{\circ}\text{C}$  im Bioreaktor

Mit freundlichen Grüßen



**PIA GmbH**  
Prüfinstitut für Abwassertechnik  
Hergenrather Weg  
52074 Aachen

Dipl.-Ing. Eimar Lancé



www.pia-gmbh.com

Geschäftsführung:  
Dr.-Ing. Eimar Dorgeloh

Bankverbindung:  
Deutsche Bank Aachen  
(BLZ 390 700 24)  
Kto-Nr. 199 068 600

Amtsgericht Aachen:  
HRB 12841  
UST-ID: DE 226980614  
Steuernummer: 201/5915/1852

## Final Certificate

This is to certify that:

**AUGUST IR KO Industrial building  
Meiliakalnio village 1  
Širvintos district municipality  
Lithuania**

has been assessed to:

**BREEAM 2009 Europe Commercial: Industrial  
(Fully Fitted)**

by a licensed assessor for:

**August ir Ko, UAB**

and has achieved a score of **59.8%**

**Very Good**



Certificate Number: **BREEAM-0063-7785**

Issue: **01**

20 October 2016

Date of Issue

Signed on behalf of BRE Global Ltd.

Gavin Dunn

Director, BREEAM

August ir Ko, UAB

Developer

Ecosolit, UAB

Main Contractor

UAB Vesta Consulting

Assessor Company

Evaldas Savickis

Licensed Assessor

ES18

Assessor number

Studija PS, UAB

Architect



This certificate is issued by BRE Global Ltd to the Licensed Assessor named above based on their assessment of data provided by the Client and verified at the time of Assessment.

This certificate remains the property of BRE Global Ltd and is issued subject to terms and conditions - visit [www.greenbooklive.com/terms](http://www.greenbooklive.com/terms).

To check the authenticity of this certificate visit [www.greenbooklive.com/check](http://www.greenbooklive.com/check), scan the QR Tag or contact us: E: [breeam@bre.co.uk](mailto:breeam@bre.co.uk) T: +44 (0) 1923 664462

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**bre**

# SERTIFIKATAS

LIETUVOS PASTATŲ TVARUMO VERTINIMO SISTEMA



## „August ir Ko“ gamykla

Įvertinimo lygis

Labai gerai ★★☆☆☆

Objekto pasiektas procentinis balas

64,08%

Sertifikato numeris

LPTVS-2016-01

Kategorijos ir pasiektas rezultatas



Objektas

Gamybinės paskirties pastatas. Meiliakalnio k. 1, Širvintų rajonas.

Statytojas

UAB „August ir Ko“

Architektas

UAB „Studija PS“

Vertintojas

Rasita Masalskytė

Sertifikatą išdavė

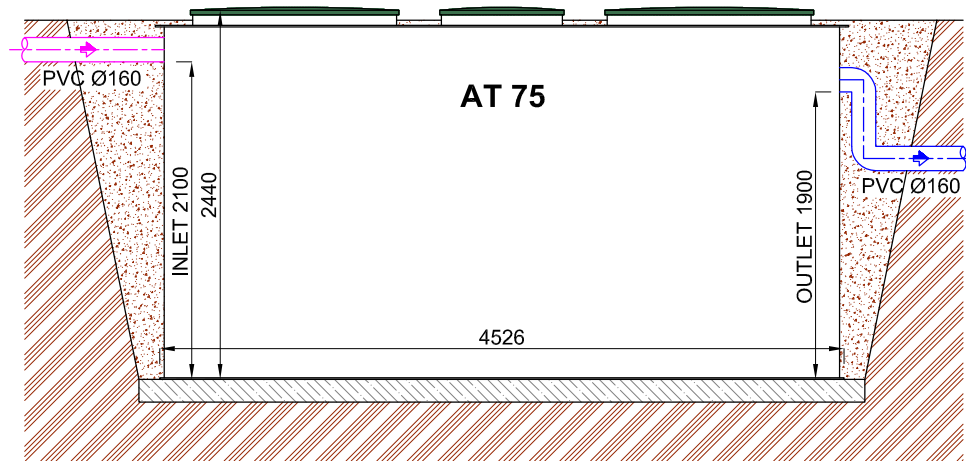
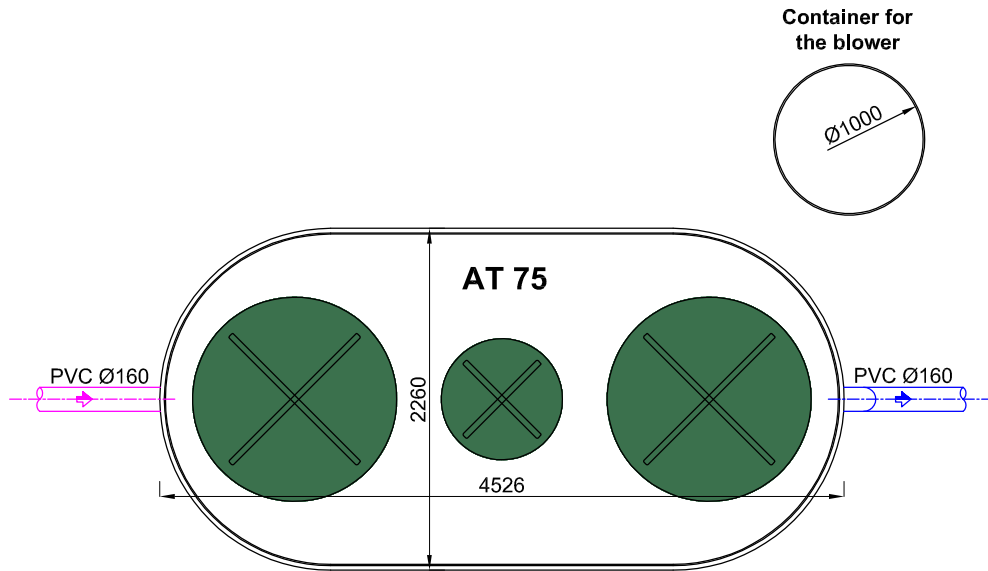
Lietuvos žaliųjų pastatų taryba, direktorius Evaldas Savickis

Sertifikato išdavimo data

2016 Spalio 17 d.



Sertifikatas išduotas Lietuvos žaliųjų pastatų tarybos pagal užsakovo pateiktą informaciją ir patvirtintą vertinimo metodiką. Sertifikato išdavimo teisės priklauso Lietuvos žaliųjų pastatų tarybai - daugiau informacijos [www.lzpt.lt](http://www.lzpt.lt), [info@lzpt.lt](mailto:info@lzpt.lt).



AUGUST

The treated water can be discharged into rivers and lakes or filtered into the ground.

AT75 OVAL

M

1:50





TECHNICKÝ A SKÚŠOBNÝ ÚSTAV STAVEBNÝ, n. o.  
BUILDING TESTING AND RESEARCH INSTITUTE, Slovak Republic  
Studená 3, 821 04 Bratislava

Product Certification Body



Reg. No. 004/P-016

## PRODUCT CERTIFICATE

No. 00032/TSUS/Y/2017

from 12 December 2017

Product: **Wastewater treatment systems AT**

Product types: **according to Annex No. 1**

Manufacturer: **AUGUST IR KO** Business ID: 124600588  
**Juodasis kelias 104A, LT - 11307 Vilnius, Lithuania**

Manufacture place: **AUGUST IR KO** Business ID: 124600588  
**Meiliakalnio k.1, Jauniūnų sen., Širvintų r.**  
**LT - 19154, Lithuania**

This product was the subject of the certification in accordance with the working procedures of TSUS, as an accredited certification body for product certification and

**declares, that the product characteristics:**

Load capacity (shaped tank stability), Waterproofing, Concentrations of substances in effluent wastewater, Durability —

**respond to the following criteria:**

SK Technical Assessment SK TP – 17/0129 Wastewater treatment systems AT, issued by TSUS TP04, 8 December 2017 —

**Purpose and conditions of product use:** Wastewater treatment plants AT for 60 up to 1200 PT are used for cleaning of sewage from residential buildings, group homes, small municipalities or parts of municipalities and waste water from sources where it is produced by sewage water. After pre-treatment of industrial wastewater with organic pollution serve as a biological stage of final treatment. —

This certificate is issued on the basis of the Report of product certification No. 00032/TSUS/Y/2017 of the 12 December 2017.


Validity of the certificate from: **12 December 2017** to: **without restriction**.

A part of the product certification is the continuous surveillance and the taking of test samples for control testing, once in every 12 months.

**Note:**

The reproduction of the Product Certificate is possible only as whole, or a part of it only with the written approval of the Certification Body. The misuse of the certificate will be by the certification body sanctioned under the provisions of relevant laws.



  
Ing. Daša Kozáková  
Head of certification body

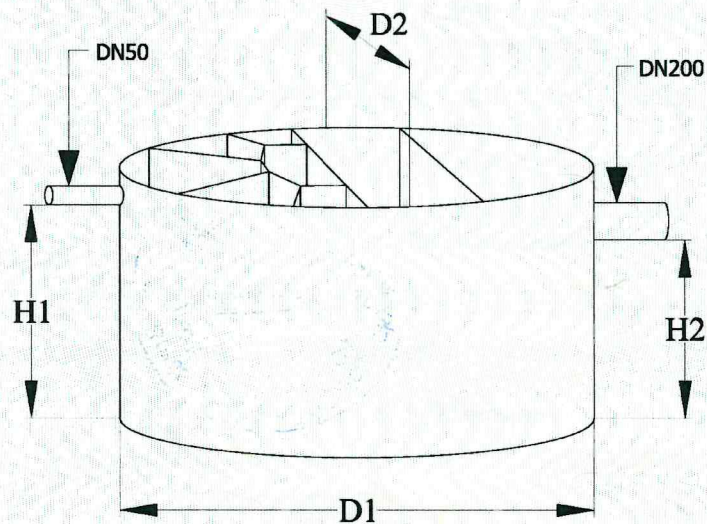
096126

**Annex No. 1 of the Product Certificate No. 00032/TSUS/Y/2017**

Product: wastewater treatment biological reactors

- Types: AT-75 oval, AT-100 oval, AT-120 oval, AT-150 oval, AT-175 oval, AT-200 oval, AT-225 oval, AT-300 oval, AT-400 oval, AT-525 oval, AT-600 oval, AT-700 oval, AT-800 oval, AT-900 oval, AT-75 ovalT, AT-100 ovalT, AT-150 ovalT, AT-200 ovalT, AT-250 ovalT, AT-300 ovalT, AT-400 ovalT, AT-500 ovalT, AT-600 ovalT, AT-750 ovalT, AT-900 ovalT, AT-1000 ovalT, AT-1200 ovalT, AT-75, AT-100, AT-120, AT-150, AT-200, AT-250, AT-300, AT-400, AT-500, AT-600, AT-750, AT-800, AT-900.
- aerobic with activated sludge,
  - anaerobic-anoxic and aeration chambers also secondary settling chamber, are integrated in one tank,
  - excess sludge is removed to the sludge stabilizer, which is installed in a separate container,
  - air blower is installed inside or next to the wastewater treatment plant.

General view of the wastewater treatment biological reactor with oval plan view with container dimensions:



**Coefficients and their values**

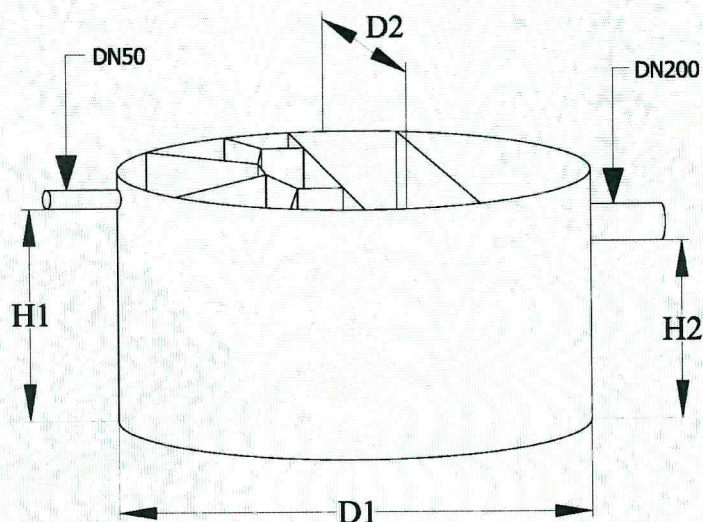
Name of the coefficient	Measure unit	Declared value
Overall dimensions: D1- external length of the ellipse; D2- external width of the ellipse / H1 – height of the inlet /H2- height of the outlet / A – number of reactors		
AT-75 oval, AT-100 oval, AT-120 oval, AT-150 oval, AT-175 oval, AT-200 oval, AT-225 oval, AT-300 oval, AT-400 oval, AT-525 oval, AT-600 oval, AT-700 oval, AT-800 oval, AT-900 oval.	m/ m/ m/ m/ units.	5,10/ 2,15/ 2,20/ 1,90/ 1 6,35/ 2,20/ 2,20/ 1,90/ 1 7,05/ 2,20/ 2,20/ 1,90/ 1 8,50/ 2,20/ 2,20/ 1,90/ 1 9,70/ 2,20/ 2,20/ 1,90/ 1 10,90/ 2,20/ 2,20/ 1,90/ 1 12,00/ 2,20/ 2,20/ 1,90/ 1 8,50/ 2,20/ 2,20/ 1,90/ 2 10,90/ 2,20/ 2,20/ 1,90/ 2 9,70/ 2,20/ 2,20/ 1,90/ 3 10,90/ 2,20/ 2,20/ 1,90/ 3 9,70/ 2,20/ 2,20/ 1,90/ 4 10,90/ 2,20/ 2,20/ 1,90/ 4 12,00/ 2,20/ 2,20/ 1,90/ 4



(continued)

**Annex No. 1 (continued)**

General view of the wastewater treatment biological reactor with oval plan view intended for transport on platform of a truck:



**Coefficients and their values**

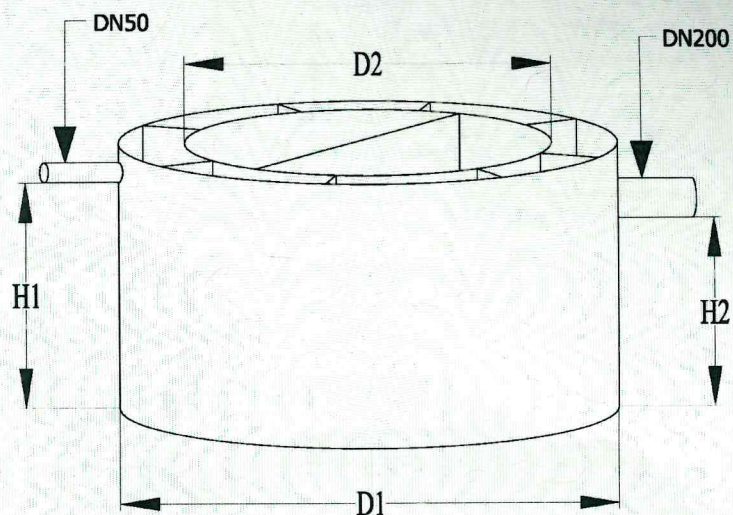
Name of the coefficient	Measure unit	Declared value
Overall dimensions: D1- external length of the ellipse; D2- external width of the ellipse / H1 – height of the inlet /H2- height of the outlet / A – number of reactors		
AT-75 ovalT, AT-100 ovalT, AT-150 ovalT, AT-200 ovalT, AT-250 ovalT, AT-300 ovalT, AT-400 ovalT, AT-500 ovalT, AT-600 ovalT, AT-750 ovalT, AT-900 ovalT, AT-1000 ovalT, AT-1200 ovalT.	m/ m/ m/ m/ units.	5,54/ 2,24/ 2,73/ 2,50/ 1 5,74/ 2,24/ 2,73/ 2,50/ 1 7,24/ 2,24/ 2,73/ 2,50/ 1 9,44/ 2,24/ 2,73/ 2,50/ 1 11,34/ 2,24/ 2,73/ 2,50/ 1 13,34/ 2,24/ 2,73/ 2,50/ 1 9,44/ 2,24/ 2,73/ 2,50/ 2 11,34/ 2,24/ 2,73/ 2,50/ 2 13,34/ 2,24/ 2,73/ 2,50/ 2 11,34/ 2,24/ 2,73/ 2,50/ 3 13,34/ 2,24/ 2,73/ 2,50/ 3 11,34/ 2,24/ 2,73/ 2,50/ 4 13,34/ 2,24/ 2,73/ 2,50/ 4



(continued)

**Annex No. 1 (continued)**

General view of the wastewater treatment biological reactor with circular plan view



**Coefficients and their values**

Name of the coefficient	Measure unit	Declared value
Overall dimensions: D1- the diameter of the outer ring; D2- the diameter of the inner ring / H1 – height of the inlet / H2 - height of the outlet / A – number of reactors		
AT-75, AT-100, AT-120, AT-150, AT-200, AT-250, AT-300, AT-400, AT-500, AT-600, AT-750, AT-900.	m/ m/ m/ m/ units.	3,30/ 2,25/ 2,90/ 2,60/ 1 3,50/ 2,45/ 2,90/ 2,60/ 1 4,00/ 2,80/ 2,90/ 2,60/ 1 4,50/ 3,10/ 2,90/ 2,60/ 1 5,00/ 3,40/ 2,90/ 2,60/ 1 5,30/ 3,70/ 2,90/ 2,60/ 1 5,50/ 3,95/ 2,90/ 2,60/ 1 5,00/ 3,70/ 2,90/ 2,60/ 2 5,30/ 3,70/ 2,90/ 2,60/ 2 5,50/ 3,70/ 2,90/ 2,60/ 2 5,30/ 3,70/ 2,90/ 2,60/ 3 5,50/ 3,70/ 2,90/ 2,60/ 3



(continued)

Annex No. 1 (continued)

Coefficients and their values

Name of the coefficient	Measure unit	Declared value
Nominal daily flow (Nominal marking) Q <sub>D</sub> :		
AT-75 oval,	m <sup>3</sup> /d	11,3
AT-100 oval,		15,0
AT-120 oval,		18,0
AT-150 oval,		22,5
AT-175 oval,		26,3
AT-200 oval,		30,0
AT-225 oval,		33,8
AT-300 oval,		45,0
AT-400 oval,		60,0
AT-525 oval,		78,8
AT-600 oval,		90,0
AT-700 oval,		105,0
AT-800 oval,		120,0
AT-900 oval,		135,0
AT-75 ovalT,		11,3
AT-100 ovalT,		15,0
AT-150 ovalT,		22,5
AT-200 ovalT,		30,0
AT-250 ovalT,		37,5
AT-300 ovalT,		45,0
AT-400 ovalT,		60,0
AT-500 ovalT,		75,0
AT-600 ovalT,		90,0
AT-750 ovalT,		112,5
AT-900 ovalT,		135,0
AT-1000 ovalT,		150,0
AT-1200 ovalT,	180,0	
AT-75,	11,3	
AT-100,	15,0	
AT-120,	18,0	
AT-150,	22,5	
AT-200,	30,0	
AT-250,	37,5	
AT-300,	45,0	
AT-400,	60,0	
AT-500,	75,0	
AT-600,	90,0	
AT-750,	112,5	
AT-900,	135,0	
AT-1200,		



(continued)

**Annex No. 1 (continued)**

Coefficients and their values

Name of the coefficient	Measure unit	Declared value
Maximal hourly flow (Nominal marking) $Q_h$ :		
AT-75 oval,	$m^3/h$	2,95
AT-100 oval,		3,69
AT-120 oval,		4,28
AT-150 oval,		5,06
AT-175 oval,		5,63
AT-200 oval,		6,13
AT-225 oval,		6,62
AT-300 oval,		7,75
AT-400 oval,		8,42
AT-525 oval,		8,47
AT-600 oval,		8,47
AT-700 oval,		10,68
AT-800 oval,		11,80
AT-900 oval,		12,83
AT-75 ovalT,		2,95
AT-100 ovalT,		3,69
AT-150 ovalT,		5,06
AT-200 ovalT,		6,13
AT-250 ovalT,		7,06
AT-300 ovalT,		7,75
AT-400 ovalT,		8,42
AT-500 ovalT,		8,13
AT-600 ovalT,		8,47
AT-750 ovalT,		10,68
AT-900 ovalT,		12,83
AT-1000 ovalT,		14,44
AT-1200 ovalT,		16,35
AT-75,		2,95
AT-100,		3,69
AT-120,		4,28
AT-150,		5,06
AT-200,		6,13
AT-250,		7,06
AT-300,		7,75
AT-400,		8,42
AT-500,		8,13
AT-600,		8,47
AT-750,		11,25
AT-900,		12,83
AT-1200.		
Load of contaminants		
ChDS	mg/l	800
BDS <sub>5</sub>	mg/l	400
SM	mg/l	400
N <sub>total</sub>	mg/l	100
P <sub>total</sub>	mg/l	16,7



**Annex No. 1 (continued)**

Coefficients and their values

Name of the coefficient	Testing method	Measure unit	Declared value
treatment efficiency:	Report from household wastewater treatment plant efficiency test No. 01/2012. Issued by Aquaseco, s.r.o., Ivanka pri Dunaji, Slovak Republic, January 2012.	%	91.7
ChDS		%	97.0
BDS <sub>5</sub>		%	97.0
SM	STN EN 1899-1,	%	98.6
N-NH <sub>4</sub>	STN ISO15705	%	80.7
N <sub>total</sub>	STN EN 872	%	75.6
P <sub>total</sub>			
Waterproofing	Report No. 60-12-0611 (tank waterproofing) Issued by Technický a skúšobný ústav stavebný, n.o., testing laboratory, test site Žilina, Slovak Republic, 07.04.2012. STN EN 12566-3	-	tight, no leaks
Load capacity (shaped tank stability)	Static calculation. AT 75 oval + AT 225 oval. Issued by doc. Ing. Oldřich Šuba, CSc., October 2017. STN EN 1778	-	ensured
Durability	Test report No. 284/2015, Density, VÚSAPL, jsc., June 2015 Test report No. 378/2015, MFR, VÚSAPL, jsc., August 2015 EN ISO 1133 EN ISO 527-2	-	ensured





Пожалуй, одним из самых простых, компактных и доступных вариантов является дренажный колодец. Он представляет собой донный фильтр с засыпкой из гравия, щебня или спекшегося шлака, и выполняется без дна, чтобы вода постепенно самотеком уходила в грунт. Стоит отметить, что такой вариант идеально подходит для грунтов с высокой и средней фильтрующей способностью.



В случаях, когда на доступном расстоянии от очистного сооружения, располагается водоем (или просто сточная канава), отвод очищенной воды можно произвести в него. Здесь необходимо ещё раз напомнить, что степень очистки сточных вод, в предлагаемых нами системах, достигает **98%**. Подобный метод применяется так же при водонепроницаемых или слабофильтрующих грунтах.



Еще одним вариантом отвода воды являются поля фильтрации. Это самый сложный вариант, как в плане технического воплощения и, связанных с этим, финансовых вложений, так и в плане контроля и обслуживания получившегося сооружения. Фактически, поля подземной фильтрации представляют собой сеть оросительных труб, укладываемых на определенную глубину, зависящую от глубины промерзания грунта и расстояния до уровня грунтовых вод. Поля фильтрации нужны, как альтернатива фильтрующему колодцу или как дополнение к нему.



