

**DBO EXPERT INC.**

501, chemin Giroux  
Sherbrooke, Québec J1C 0J8

**NQ 3680-910/2000-06-16 M1 (2004-09-10)**

*Wastewater Treatment - Stand-Alone Wastewater Treatment  
Systems for Isolated Dwellings*

Certificate number: **890**

Issue date: **2023-01-26**

Expiry date: **2025-01-31**

**Stand-alone wastewater treatment systems**

**System O)) Model: O-AES-TSA-60**

Capacity:

Number of bedrooms	Model designation	Daily hydraulic capacity (L/j)	Maximal hydraulic capacity (L/j)	Minimal number of Enviro-Septic pipes (3.05 m each)
1	O-5AES-TSA-60	540	540	5
-	O-7AES-TSA-60	810	810	7
2	O-9AES-TSA-60	1080	1080	9
3	O-10AES-TSA-60	1260	1260	10
4	O-12AES-TSA-60	1440	1440	12
-	O-14AES-TSA-60	1620	1620	14
5	O-15AES-TSA-60	1800	1800	15
-	O-16AES-TSA-60	1960	1960	16
6	O-18AES-TSA-60	2160	2160	18
-	O-19AES-TSA-60	2280	2280	19
-	O-20AES-TSA-60	2440	2440	20
-	O-21AES-TSA-60	2660	2660	21
-	O-22AES-TSA-60	2760	2760	22
-	O-24AES-TSA-60	2920	2920	24
-	O-25AES-TSA-60	3080	3080	25
-	O-26AES-TSA-60	3240	3240	26

Maximum hydraulic capacity per pipes of 3.05 m = 126 litres per day.

Layer of filtration sand under pipes = 600 mms.

Layer of filtration sand with pipe in the center = 300 mms.

Layer of filtration sand on pipes = 100 mms.

Minimum center-to-center spacing between pipes = 600 mms.

Gravity feeding

**Certificate precisions**

Treatment class: **Class III.**

Influent wastewater temperature: The tests specified in articles 8.1 and 8.2 were carried out with Influent wastewater at a minimum controlled temperature of 11 °C ± 1 °C.

Other: The System O)) must be preceded by a septic tank as primary treatment and a wastewater distribution device.

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Certificate number: **890**  
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**Stand-alone wastewater treatment systems**

**System O)) Model: O-AES-TSA-35**

Capacity:

Number of bedrooms	Model designation	Daily hydraulic capacity (L/j)	Maximal hydraulic capacity (L/j)	Minimal number of Enviro-Septic pipes (3.05 m each)
1	O-5AES-TSA-35	540	540	5
-	O-7AES-TSA-35	810	810	7
2	O-9AES-TSA-35	1080	1080	9
3	O-10AES-TSA-35	1260	1260	10
4	O-12AES-TSA-35	1440	1440	12
-	O-14AES-TSA-35	1620	1620	14
5	O-15AES-TSA-35	1800	1800	15
-	O-16AES-TSA-35	1960	1960	16
6	O-18AES-TSA-35	2160	2160	18
-	O-19AES-TSA-35	2280	2280	19
-	O-20AES-TSA-35	2440	2440	20
-	O-21AES-TSA-35	2660	2660	21
-	O-22AES-TSA-35	2760	2760	22
-	O-24AES-TSA-35	2920	2920	24
-	O-25AES-TSA-35	3080	3080	25
-	O-26AES-TSA-35	3240	3240	26

Maximum hydraulic capacity per pipes of 3.05 m = 126 litres per day.

Layer of filtration sand under pipes = 350 mms.

30 cm of filter sand with AES pipe in the middle and low pressure pipe in the AES pipe.

Layer of filtration sand on pipes = 100 mms.

Minimum center-to-center spacing between pipes = 600 mms.

Feeding under low pressure

**Certificate precisions**

Treatment class: **Class III.**

Influent wastewater temperature: The tests specified in articles 8.1 and 8.2 were carried out with Influent wastewater at a minimum controlled temperature of 11 °C ± 1 °C.

Other: The System O)) must be preceded by a septic tank as primary treatment and a wastewater distribution device.

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**Stand-alone wastewater treatment systems**

**System O)) Model: O-AES-TT-UV-30**

Capacity:

Number of bedrooms	Model designation	Daily hydraulic capacity (L/j)	Maximal hydraulic capacity (L/j)	Minimal number of Enviro-Septic pipes (3.05 m each)	Number of UV reactor
1	O-5AES-TT-UV-30	540	540	5	1
-	O-7AES-TT-UV-30	810	810	7	1
2	O-9AES-TT-UV-30	1080	1080	9	1
3	O-10AES-TT-UV-30	1260	1260	10	1
4	O-12AES-TT-UV-30	1440	1440	12	1
-	O-14AES-TT-UV-30	1620	1620	14	1
5	O-15AES-TT-UV-30	1800	1800	15	1
-	O-16AES-TT-UV-30	1960	1960	16	1
6	O-18AES-TT-UV-30	2160	2160	18	1
-	O-19AES-TT-UV-30	2280	2280	19	1
-	O-20AES-TT-UV-30	2440	2440	20	1
-	O-21AES-TT-UV-30	2660	2660	21	1
-	O-22AES-TT-UV-30	2760	2760	22	1
-	O-24AES-TT-UV-30	2920	2920	24	1
-	O-25AES-TT-UV-30	3080	3080	25	1
-	O-26AES-TT-UV-30	3240	3240	26	1

Maximum hydraulic capacity per pipes of 3.05 m = 126 litres per day.

Layer of filtration sand under pipes = 300 mms.

Layer of filtration sand with pipe in the center = 300 mms.

Layer of filtration sand on pipes = 100 mms.

Minimum center-to-center spacing between pipes = 450 mms.

Gravity feeding

Certificate precisions

Treatment class: Class V

Influent wastewater temperature: The tests specified in articles 8.1 and 8.2 were carried out with Influent wastewater at a minimum controlled temperature of 11 °C ± 1 °C.

The System O)) must be preceded by a septic tank as primary treatment and a wastewater distribution device.

Other:  
Authorized UV  
reactors

The Salcor 3G model is permitted for 1 to 6 bedroom residences, corresponding to a total daily flow of 2,160 L / d, and for other buildings up to a total daily flow of 3,240 L / d



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**Stand-alone wastewater treatment systems**

**List of recognized manufacturers for system components**

**Enviro-Septic pipes manufacturer:**

PRESBY PLASTICS INC.  
143 Airport Road  
Whitefield, NH 03598  
USA

**UV reactor manufacturer**

SALCOR 3G  
SALCOR INC.  
P.O. BOX 1090  
FALLBROOK, CA 92088-1090  
USA

**List of recognized assemblers**

DBO EXPERT INC.  
501, chemin Giroux  
Sherbrooke, Québec J1C 0J8  
CANADA  
Phone: 1-866-440-4975  
[www.dboexpert.com](http://www.dboexpert.com)

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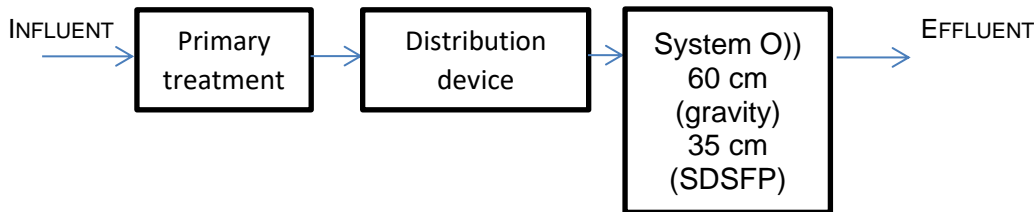
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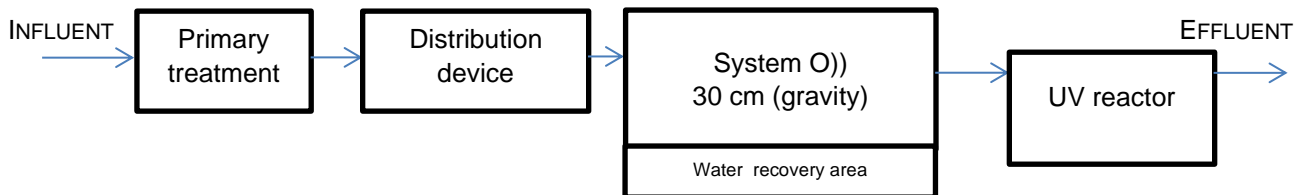
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**FLOW DIAGRAM OF SYSTEM O)) O-AES-TSA**



**FLOW DIAGRAM OF SYSTEM O)) O-AES-TT-UV**





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HISTORY	
Date	Modification description
2007-01-26	Certification of Model AES-TS, class II.
2008-10-06	Certification of Model AES-TSA, class III.
2014-11-19	Updated version with minor modifications.
2016-01-28	Model AES-TS, class II retrieved.
2017-01-31	Renewal of certificate and updated certificate annex.
2017-11-17	Updated certificate annex.
2018-06-18	Correction of certificate annex.
2018-06-21	Updated certificate annex.
2018-07-27	Updated certificate annex.
2018-11-28	Certification of Model O-AES-TSA, class III and O-AES-TT-UV, class V.
2019-01-29	Renewal and modification of the scope of the certificate.
2019-04-04	Withdrawn of model AES-TSA-60, class III
2021-01-31	Extension of certificate to 2021-07-31.
2021-07-15	Renewal of certificate.
2023-01-26	Renewal of certificate.