



Bureau de normalisation
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ANNEX TO THE CERTIFICATE

DBO EXPERT INC.

501, chemin Giroux
Sherbrooke (Québec) J1C 0J8

**CAN/BNQ 3680-600/2009-05-01
M2 (2017-07-18)**

Onsite Residential Wastewater Treatment Technologies

Page 1 of 14

Certificate number: **2978**
Issue date: **2025-06-18**
Expiry date: **2027-06-30**

Stand-alone wastewater treatment systems

System O)) Model: O-AES-BIV-15-SDSFP

Capacity:

Model designation	Daily hydraulic capacity (L/j)	Maximal hydraulic capacity (L/j)	Minimal number of Enviro-Septic pipes (3.05 m each)
O-5AES-BIV-15-SDSFP	630	630	5
O-6AES-BIV-15-SDSFP	756	756	6
O-7AES-BIV-15-SDSFP	882	882	7
O-8AES-BIV-15-SDSFP	1008	1008	8
O-9AES-BIV-15-SDSFP	1134	1134	9
O-10AES-BIV-15-SDSFP	1260	1260	10
O-11AES-BIV-15-SDSFP	1386	1386	11
O-12AES-BIV-15-SDSFP	1512	1512	12
O-13AES-BIV-15-SDSFP	1638	1638	13
O-14AES-BIV-15-SDSFP	1764	1764	14
O-15AES-BIV-15-SDSFP	1890	1890	15
O-16AES-BIV-15-SDSFP	2016	2016	16
O-17AES-BIV-15-SDSFP	2142	2142	17
O-18AES-BIV-15-SDSFP	2268	2268	18
O-19AES-BIV-15-SDSFP	2394	2394	19
O-20AES-BIV-15-SDSFP	2520	2520	20
O-21AES-BIV-15-SDSFP	2646	2646	21
O-22AES-BIV-15-SDSFP	2772	2772	22
O-23AES-BIV-15-SDSFP	2898	2898	23
O-24AES-BIV-15-SDSFP	3024	3024	24
O-25AES-BIV-15-SDSFP	3150	3150	25
O-26AES-BIV-15-SDSFP	3276	3276	26
O-30AES-BIV-15-SDSFP	3780	3780	30
O-35AES-BIV-15-SDSFP	4410	4410	35
O-37AES-BIV-15-SDSFP	4662	4662	37
O-40AES-BIV-15-SDSFP	5040	5040	40
O-45AES-BIV-15-SDSFP	5670	5670	45
O-50AES-BIV-15-SDSFP	6300	6300	50
O-54AES-BIV-15-SDSFP	6804	6804	54
O-60AES-BIV-15-SDSFP	7560	7560	60
O-65AES-BIV-15-SDSFP	8190	8190	65
O-70AES-BIV-15-SDSFP	8820	8820	70
O-75AES-BIV-15-SDSFP	9450	9450	75
O-80AES-BIV-15-SDSFP	10080	10080	80

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Onsite Residential Wastewater Treatment Technologies

Certificate number: **2978**

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

Layer of filtration sand under pipes = 150 mms.

Layer of filtration sand with pipe in the center = 300 mms and low pressure distribution 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 B-IV

Influent wastewater temperature: The tests specified in articles 8.3 and 8.4 were carried out with Influent wastewater at a minimum controlled temperature of $11\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

Others: The System O)) must be preceded by a septic tank as primary treatment and a wastewater distribution device.
The number of Advanced Enviro)) Septic lines is flow dependent. Other models are available as long as the maximum hydraulic capacity of 126 l / d / pipe is respected.



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Stand-alone wastewater treatment systems

System O)) Model: O-AES-BIV-30-G

Capacity:

Model designation	Daily hydraulic capacity (L/j)	Maximal hydraulic capacity (L/j)	Minimal number of Enviro-Septic pipes (3.05 m each)
O-5AES-BIV-30-G	630	630	5
O-6AES-BIV-30-G	756	756	6
O-7AES-BIV-30-G	882	882	7
O-8AES-BIV-30-G	1008	1008	8
O-9AES-BIV-30-G	1134	1134	9
O-10AES-BIV-30-G	1260	1260	10
O-11AES-BIV-30-G	1386	1386	11
O-12AES-BIV-30-G	1512	1512	12
O-13AES-BIV-30-G	1638	1638	13
O-14AES-BIV-30-G	1764	1764	14
O-15AES-BIV-30-G	1890	1890	15
O-16AES-BIV-30-G	2016	2016	16
O-17AES-BIV-30-G	2142	2142	17
O-18AES-BIV-30-G	2268	2268	18
O-19AES-BIV-30-G	2394	2394	19
O-20AES-BIV-30-G	2520	2520	20
O-21AES-BIV-30-G	2646	2646	21
O-22AES-BIV-30-G	2772	2772	22
O-23AES-BIV-30-G	2898	2898	23
O-24AES-BIV-30-G	3024	3024	24
O-25AES-BIV-30-G	3150	3150	25
O-26AES-BIV-30-G	3276	3276	26
O-30AES-BIV-30-G	3780	3780	30
O-35AES-BIV-30-G	4410	4410	35
O-37AES-BIV-30-G	4662	4662	37
O-40AES-BIV-30-G	5040	5040	40
O-45AES-BIV-30-G	5670	5670	45
O-50AES-BIV-30-G	6300	6300	50
O-54AES-BIV-30-G	6804	6804	54
O-60AES-BIV-30-G	7560	7560	60
O-65AES-BIV-30-G	8190	8190	65
O-70AES-BIV-30-G	8820	8820	70
O-75AES-BIV-30-G	9450	9450	75
O-80AES-BIV-30-G	10080	10080	80

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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 = 600 mms.
Gravity feeding.

Certificate precisions

Treatment class: Class B-IV

Influent wastewater temperature: The tests specified in articles 8.3 and 8.4 were carried out with Influent wastewater at a minimum controlled temperature of $11\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

Others: The System O)) must be preceded by a septic tank as primary treatment and a wastewater distribution device.
The number of Advanced Enviro)) Septic lines is flow dependent. Other models are available as long as the maximum hydraulic capacity of 126 l / d / pipe is respected.



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Stand-alone wastewater treatment systems

System O)) Model: O-AES-DI-30-SDSFP

Capacity:

Model designation	Daily hydraulic capacity (L/j)	Maximal hydraulic capacity (L/j)	Minimal number of Enviro-Septic pipes (3.05 m each)
O-5AES-DI-30-SDSFP	630	630	5
O-6AES-DI-30-SDSFP	756	756	6
O-7AES-DI-30-SDSFP	882	882	7
O-8AES-DI-30-SDSFP	1008	1008	8
O-9AES-DI-30-SDSFP	1134	1134	9
O-10AES-DI-30-SDSFP	1260	1260	10
O-11AES-DI-30-SDSFP	1386	1386	11
O-12AES-DI-30-SDSFP	1512	1512	12
O-13AES-DI-30-SDSFP	1638	1638	13
O-14AES-DI-30-SDSFP	1764	1764	14
O-15AES-DI-30-SDSFP	1890	1890	15
O-16AES-DI-30-SDSFP	2016	2016	16
O-17AES-DI-30-SDSFP	2142	2142	17
O-18AES-DI-30-SDSFP	2268	2268	18
O-19AES-DI-30-SDSFP	2394	2394	19
O-20AES-DI-30-SDSFP	2520	2520	20
O-21AES-DI-30-SDSFP	2646	2646	21
O-22AES-DI-30-SDSFP	2772	2772	22
O-23AES-DI-30-SDSFP	2898	2898	23
O-24AES-DI-30-SDSFP	3024	3024	24
O-25AES-DI-30-SDSFP	3150	3150	25
O-26AES-DI-30-SDSFP	3276	3276	26
O-30AES-DI-30-SDSFP	3780	3780	30
O-35AES-DI-30-SDSFP	4410	4410	35
O-37AES-DI-30-SDSFP	4662	4662	37
O-40AES-DI-30-SDSFP	5040	5040	40
O-45AES-DI-30-SDSFP	5670	5670	45
O-50AES-DI-30-SDSFP	6300	6300	50
O-54AES-DI-30-SDSFP	6804	6804	54
O-60AES-DI-30-SDSFP	7560	7560	60
O-65AES-DI-30-SDSFP	8190	8190	65
O-70AES-DI-30-SDSFP	8820	8820	70
O-75AES-DI-30-SDSFP	9450	9450	75
O-80AES-DI-30-SDSFP	10080	10080	80

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Maximum hydraulic capacity per pipes of 3.05 m = 126 litres per day.
Layer of filtration sand under pipes = 30 cm.
30 cm of filter sand with AES pipe in the middle and low pressure distribution 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 B-IV, D-I.

Influent wastewater temperature: The tests specified in articles 8.3 and 8.4 were carried out with Influent wastewater at a minimum controlled temperature of $11\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

Others: The System O)) must be preceded by a septic tank as primary treatment and a wastewater distribution device.
The number of Advanced Enviro)) Septic lines is flow dependent. Other models are available as long as the maximum hydraulic capacity of 126 l / d / pipe is respected.



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Stand-alone wastewater treatment systems

System O)) Model: O-AES-DI-60-G

Capacity:

Model designation	Daily hydraulic capacity (L/j)	Maximal hydraulic capacity (L/j)	Minimal number of Enviro-Septic pipes (3.05 m each)
O-5AES-DI-60-G	630	630	5
O-6AES-DI-60-G	756	756	6
O-7AES-DI-60-G	882	882	7
O-8AES-DI-60-G	1008	1008	8
O-9AES-DI-60-G	1134	1134	9
O-10AES-DI-60-G	1260	1260	10
O-11AES-DI-60-G	1386	1386	11
O-12AES-DI-60-G	1512	1512	12
O-13AES-DI-60-G	1638	1638	13
O-14AES-DI-60-G	1764	1764	14
O-15AES-DI-60-G	1890	1890	15
O-16AES-DI-60-G	2016	2016	16
O-17AES-DI-60-G	2142	2142	17
O-18AES-DI-60-G	2268	2268	18
O-19AES-DI-60-G	2394	2394	19
O-20AES-DI-60-G	2520	2520	20
O-21AES-DI-60-G	2646	2646	21
O-22AES-DI-60-G	2772	2772	22
O-23AES-DI-60-G	2898	2898	23
O-24AES-DI-60-G	3024	3024	24
O-25AES-DI-60-G	3150	3150	25
O-26AES-DI-60-G	3276	3276	26
O-30AES-DI-60-G	3780	3780	30
O-35AES-DI-60-G	4410	4410	35
O-37AES-DI-60-G	4662	4662	37
O-40AES-DI-60-G	5040	5040	40
O-45AES-DI-60-G	5670	5670	45
O-50AES-DI-60-G	6300	6300	50
O-54AES-DI-60-G	6804	6804	54
O-60AES-DI-60-G	7560	7560	60
O-65AES-DI-60-G	8190	8190	65
O-70AES-DI-60-G	8820	8820	70
O-75AES-DI-60-G	9450	9450	75
O-80AES-DI-60-G	10080	10080	80

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

Layer of filtration sand under pipes = 600 mms.

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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 B-IV, D-I

Influent wastewater temperature: The tests specified in articles 8.3 and 8.4 were carried out with Influent wastewater at a minimum controlled temperature of $11\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

Others: The System O)) must be preceded by a septic tank as primary treatment and a wastewater distribution device.
The number of Advanced Enviro)) Septic lines is flow dependent. Other models are available as long as the maximum hydraulic capacity of 126 l / d / pipe is respected.



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Certificate number: **2978**
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Stand-alone wastewater treatment systems

System O)) Model: O-AES-DIII-UV-30-G

Capacity:

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
O-5AES-DIII-UV-30-G	630	630	5	1
O-6AES-DIII-UV-30-G	756	756	6	1
O-7AES-DIII-UV-30-G	882	882	7	1
O-8AES-DIII-UV-30-G	1008	1008	8	1
O-9AES-DIII-UV-30-G	1134	1134	9	1
O-10AES-DIII-UV-30-G	1260	1260	10	1
O-11AES-DIII-UV-30-G	1386	1386	11	1
O-12AES-DIII-UV-30-G	1512	1512	12	1
O-13AES-DIII-UV-30-G	1638	1638	13	1
O-14AES-DIII-UV-30-G	1764	1764	14	1
O-15AES-DIII-UV-30-G	1890	1890	15	1
O-16AES-DIII-UV-30-G	2016	2016	16	1
O-17AES-DIII-UV-30-G	2142	2142	17	1
O-18AES-DIII-UV-30-G	2268	2268	18	1
O-19AES-DIII-UV-30-G	2394	2394	19	1
O-20AES-DIII-UV-30-G	2520	2520	20	1
O-21AES-DIII-UV-30-G	2646	2646	21	1
O-22AES-DIII-UV-30-G	2772	2772	22	1
O-23AES-DIII-UV-30-G	2898	2898	23	1
O-24AES-DIII-UV-30-G	3024	3024	24	1
O-25AES-DIII-UV-30-G	3150	3150	25	1
O-26AES-DIII-UV-30-G	3276	3276	26	1
O-30AES-DIII-UV-30-G	3780	3780	30	1
O-35AES-DIII-UV-30-G	4410	4410	35	1
O-37AES-DIII-UV-30-G	4662	4662	37	1
O-40AES-DIII-UV-30-G	5040	5040	40	1
O-45AES-DIII-UV-30-G	5670	5670	45	1
O-50AES-DIII-UV-30-G	6300	6300	50	1
O-54AES-DIII-UV-30-G	6804	6804	54	1
O-60AES-DIII-UV-30-G	7560	7560	60	2
O-65AES-DIII-UV-30-G	8190	8190	65	2
O-70AES-DIII-UV-30-G	8820	8820	70	2
O-75AES-DIII-UV-30-G	9450	9450	75	2
O-80AES-DIII-UV-30-G	10080	10080	80	2

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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 = 600 mms.
Gravity feeding

Certificate precisions

Treatment class: Class B-IV, D-III

Authorized
UVreactors Salcor model 3G

Influent wastewater
temperature: The tests specified in articles 8.3 and 8.4 were carried out with Influent wastewater at a minimum controlled temperature of $11\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

Others: The System O)) must be preceded by a septic tank as primary treatment and a wastewater distribution device.
The number of Advanced Enviro)) Septic lines is flow dependent. Other models are available as long as the maximum hydraulic capacity of 126 l / d / pipe is respected.



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List of recognized manufacturers for system components

Enviro-Septic pipes manufacturer:

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

List of recognized assemblers

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



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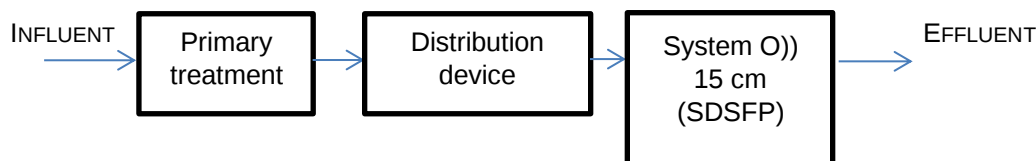
**CAN/BNQ 3680-600/2009-05-01
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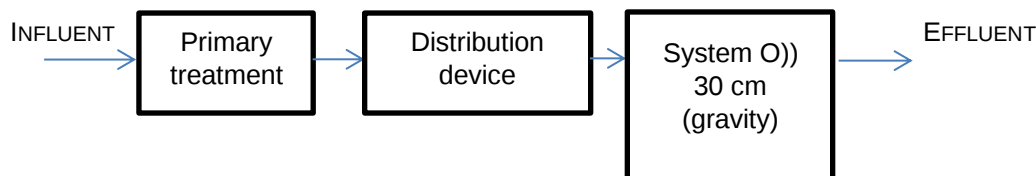
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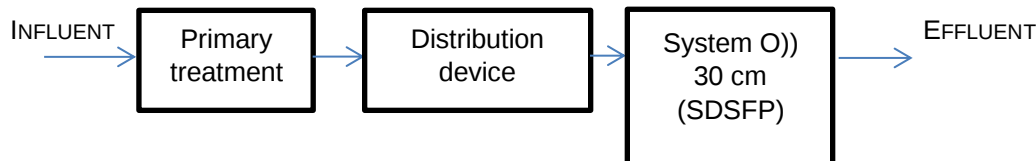
**FLOW DIAGRAM OF
SYSTEM O)) O-AES-BIV-15-SDSFP**



**FLOW DIAGRAM OF
SYSTEM O)) O-AES-BIV-30-G**



**FLOW DIAGRAM OF
SYSTEM O)) O-AES-DI-30-SDSFP**



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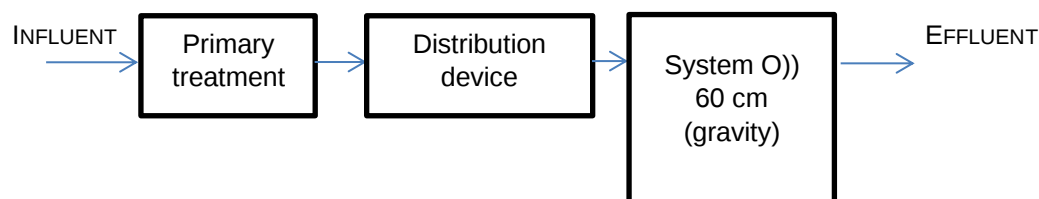
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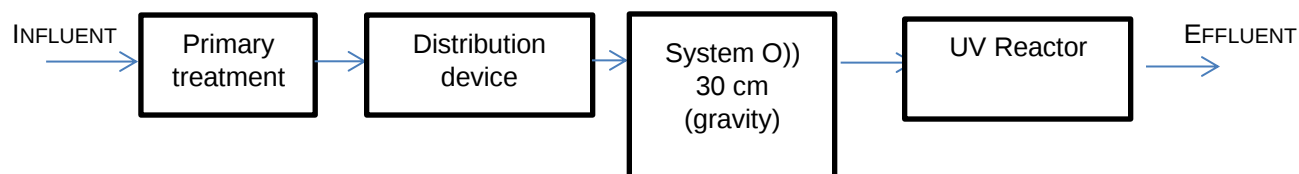
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FLOW DIAGRAM OF
SYSTEM O)) O-AES-DI-60-G



FLOW DIAGRAM OF
SYSTEM O)) O-AES-DIII-UV-30-G





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Issue date: **2025-06-18**
Expiry date: **2027-06-30**

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HISTORY	
Date	Modification description
2019-06-27	Issuance of the certificate for the models O-AES-BIV-30-G, O-AES-BIV-15-SDSFP, O-AES-DI-30-SDSFP, O-AES-DI-60-G and O-AES-DIII-UV-30-G
2019-07-18	Update of the certificate according to the M2 changes to the standard and M1 changes to the protocol.
2021-06-28	Extension of expiry date of certificate to 2021-09-30.
2021-09-30	Renewal of certificate.
2023-06-27	Renewal of certificate.
2025-06-18	Renewal of certificate.

THE ANNEX IS AN INTEGRAL PART OF THE CERTIFICATE.