



**NORWECO, INC.**

220 Republic Street  
Norwalk, OH 44857  
USA

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

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

Certificate number: **2783**

Issue date: **2026-04-15**

Expiry date: **2028-04-30**

**Stand-alone wastewater treatment systems**

**Model Hydro-Kinetic®**

Capacity

Model Number	Model Designation	Capacity (Liters/day)	Number of bedrooms
1260L-4M 1260L-4T 1260L-3M 1260L-DT	1260L FEU	1260	3 or less
1600L-4M 1600L-4T 1600L-3M 1600L-DT	1600L FEU	1600	4 or less
1890L-4M 1890L-4T 1890L-3M 1890L-DT	1890L FEU	1890	5 or less
2270L-4M 2270L-4T 2270L-3M 2270L-4G 2270L-DT	2270L FEU	2270	6 or less
3020L-3M 3020L-4M 3020L-DT	3020L FEU	3020	6 or less
3780L-3M 3780L-4M 3780L-4T 3780L-DT	3780L FEU	3780	6 or less

Model Configuration

3M: Pre-treatment tank, three chamber treatment tank, Bio-Film Reactor tank.  
 3780L-3M: Pre-treatment tank, anoxic tank, three chamber treatment tank, Bio-Film Reactor tank.  
 2270L-4G: Four chamber HDPE treatment tank, HDPE Bio-Film Reactor tank.  
 4M: Four chamber treatment tank, Bio-Film Reactor tank.  
 3780L-4M: Pre-treatment tank, anoxic tank, four chamber mid seam treatment tank, Bio-Film Reactor tank.  
 4T: Four chamber top seam tank, followed by Bio-Film Reactor tank.  
 3780L-4T: Pre-treatment tank, anoxic tank, four chamber top seam treatment tank, Bio-Film Reactor tank.  
 DT: Two chamber pre-treatment/anoxic tank, two chamber aeration/clarifier tank, Bio-Film Reactor tank.



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# ANNEX TO THE CERTIFICATE

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Treatment Class	Class III.
Certificate precisions	<p>The tests specified in articles 8.1 and 8.2 were carried out with wastewater, at a minimum controlled temperature of 11 °C ± 1 °C.</p> <p>Note that this treatment chain has no septic tank.</p> <p>Pre-treatment and anoxic tanks can be combined into a single tank or two tanks in series.</p> <p>A single Bio-Film Reactor tank with up to two reactor elements is utilized for models rated 3020 L/d or less.</p> <p>Models rated for 3780 L/d and greater may use two Bio-Film Reactor tanks with two reactor elements per tank, or one Bio-Film Reactor tank with four reactor elements.</p>

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**Stand-alone wastewater treatment systems**

**Model Hydro-Kinetic® + Phosphorus removal + UV disinfection**

Capacity

Model Number	Model Designation	Capacity (Liters/day)	Number of bedrooms
1260L-P-UV-3M 1260L-P-UV-4M 1260L-P-UV-4T 1260L-P-UV-DT	1260L FEU	1260	3 or less
1600L-P-UV-3M 1600L-P-UV-4M 1600L-P-UV-4T 1600L-P-UV-DT	1600L FEU	1600	4 or less
1890L-P-UV-4M 1890L-P-UV-4T 1890L-P-UV-3M 1890L-P-UV-DT	1890L FEU	1890	5 or less
2270L-P-UV-4M 2270L-P-UV-4T 2270L-P-UV-3M 2270L-P-UV-4G 2270L-P-UV-DT	2270L FEU	2270	6 or less
3020L-P-UV-3M 3020L-P-UV-4M 3020L-P-UV-DT	3020L FEU	3020	6 or less
3780L-P-UV-3M 3780L-P-UV-4M 3780L-P-UV-4T 3780L-P-UV-DT	3780L FEU	3780	6 or less

Model Configuration

P-UV-3M: Pre-treatment tank, three chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade, UV disinfection.  
 3780L-P-UV-3M: Pre-treatment tank, anoxic tank, three chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank, UV disinfection.  
 2270L-P-UV-4G: Four chamber HDPE treatment tank, HDPE Bio-Film Reactor tank, Phos-4-Fade tank, UV disinfection.  
 P-UV-4M: Four chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank, UV disinfection.  
 3780L-P-UV-4M: Pre-treatment tank, anoxic tank, four chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank, UV disinfection.  
 P-UV-4T: Four chamber top seam treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank, UV disinfection.  
 3780L-P-UV-4T: Pre-treatment tank, anoxic tank, four chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank, UV disinfection.



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**Stand-alone wastewater treatment systems**

Model Configuration (continued)	P-UV-DT: Two chamber pre-treatment/anoxic tank, two chamber aeration/clarifier tank, Bio-Film Reactor tank, Phos-4-Fade tank, UV disinfection.
Treatment Class	Class IV and V.
Certificate precisions:	Pre-treatment and anoxic tanks can be combined into a single tank or two tanks in series. A single Bio-Film Reactor tank with up to two reactor elements is utilized for models rated 3020 L/d or less. Models rated for 3780 L/d may use two Bio-Film Reactor tanks with two reactor elements per tank, or one Bio-Film Reactor tank with four reactor elements.

**Authorized UV Lamp:**

Model AT 1500 from Norweco is authorized for systems with hydraulic capacity of 3780 L/d or less.  
UV system can be installed inside Bio-Film Reactor tank when the configuration utilizes a single Bio-Film Reactor tank.  
UV system can be installed inside Phos-4-Fade tank when the configuration utilizes a single Phos-4-Fade tank.

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**Stand-alone wastewater treatment systems**

**Model Hydro-Kinetic® + UV disinfection**

Capacity

Model Number	Model Designation	Capacity (Liters/day)	Number of bedrooms
1260L-UV-3M 1260L-UV-4M 1260L-UV-4T 1260L-UV-DT	1260L FEU	1260	3 or less
1600L-UV-3M 1600L-UV-4M 1600L-UV-4T 1600L-UV-DT	1600L FEU	1600	4 or less
1890L-UV-4M 1890L-UV-4T 1890L-UV-3M 1890L-UV-DT	1890L FEU	1890	5 or less
2270L-UV-4M 2270L-UV-4T 2270L-UV-3M 2270L-UV-4G 2270L-UV-DT	2270L FEU	2270	6 or less
3020L-UV-3M 3020L-UV-4M 3020L-UV-DT	3020L FEU	3020	6 or less
3780L-UV-3M 3780L-UV-4M 3780L-UV-4T 3780L-UV-DT	3780L FEU	3780	6 or less

Model Configuration

UV-3M: Pre-treatment tank, three chamber treatment tank, Bio-Film Reactor tank, UV disinfection.

3780L-UV-3M: Pre-treatment tank, anoxic tank, three chamber treatment tank, Bio-Film Reactor tank, UV disinfection.

2270L-UV-4G: Four chamber HDPE treatment tank, followed by HDPE Bio-Film Reactor tank, followed by UV disinfection.

UV-4M: Four chamber treatment tank, Bio-Film Reactor tank, UV disinfection.

3780L-UV-4M: Pre-treatment tank, anoxic tank, four chamber treatment tank, Bio-Film Reactor tank, UV disinfection.

UV-4T: Four chamber top seam treatment tank, Bio-Film Reactor tank, UV disinfection.

3780L-UV-4T: Pre-treatment tank, anoxic tank, four chamber top seam treatment tank, Bio-Film Reactor tank, UV disinfection.



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**Stand-alone wastewater treatment systems**

Model Configuration (continued)	UV-DT: Two chamber pre-treatment/anoxic tank, two chamber aeration/clarifier tank, Bio-Film Reactor tank, UV disinfection
Treatment Class	Class V.
Certificate precisions	The tests specified in articles 8.1 and 8.2 were carried out with wastewater, at a minimum controlled temperature of 11 °C ± 1 °C. Note that this treatment chain has no septic tank. Pre-treatment and anoxic tanks can be combined into a single tank or two tanks in series. A single Bio-Film Reactor tank with up to two reactor elements is utilized for models rated 3020 L/d or less. Models rated for 3780 L/d may use two Bio-Film Reactor tanks with two reactor elements per tank, or one Bio-Film Reactor tank with four reactor elements.

**Authorized UV Lamp:**

Model AT 1500 from Norweco is authorized for systems with hydraulic capacity of 3780 L/d or less.  
UV system can be installed inside Bio-Film Reactor tank when the configuration utilizes a single Bio-Film Reactor tank.



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**Stand-alone wastewater treatment systems**

**Model Hydro-Kinetic® + Phosphorus removal**

Capacity

Model Number	Model Designation	Capacity (Liters/day)	Number of bedrooms
1260L-P-4M 1260L-P-4T 1260L-P-3M 1260L-P-DT	1260L FEU	1260	3 or less
1600L-P-4M 1600L-P-4T 1600L-P-3M 1600L-P-DT	1600L FEU	1600	4 or less
1890L-P-4M 1890L-P-4T 1890L-P-3M 1890L-P-DT	1890L FEU	1890	5 or less
2270L-P-4M 2270L-P-4T 2270L-P-3M 2270L-P-4G 2270L-P-DT	2270L FEU	2270	6 or less
3020L-P-3M 3020L-P-4M 3020L-P-DT	3020L FEU	3020	6 or less
3780L-P-3M 3780L-P-4M 3780L-P-4T 3780L-P-DT	3780L FEU	3780	6 or less

Model Configuration

P-3M: Pre-treatment tank, three chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank.  
 3780L-P-3M: Pre-treatment tank, anoxic tank, three chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank.  
 2270L-P-4G: Four chamber HDPE treatment tank, HDPE Bio-Film Reactor tank, Phos-4-Fade tank.  
 P-4M: Four chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank.  
 3780L-P-4M: Pre-treatment tank, anoxic tank, four chamber treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank.  
 P-4T: Four chamber top seam treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank.  
 3780L-P-4T: Pre-treatment tank, anoxic tank, four chamber top seam treatment tank, Bio-Film Reactor tank, Phos-4-Fade tank.



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**Stand-alone wastewater treatment systems**

Model Configuration (continued) P-DT: Two chamber pre-treatment/anoxic tank, followed two chamber aeration/clarifier tank, Bio-Film Reactor tank, Phos-4-Fade tank.

Treatment Class Class IV.

Certificate precisions The tests specified in articles 8.1 and 8.2 were carried out with wastewater, at a minimum controlled temperature of 11 °C ± 1 °C.  
Note that this treatment chain has no septic tank.  
Pre-treatment and anoxic tanks can be combined into a single tank or two tanks in series.  
A single Bio-Film Reactor tank with up to two reactor elements is utilized for models rated 3020 L/d or less.  
Models rated for 3780 L/d may use two Bio-Film Reactor tanks with two reactor elements per tank, or one Bio-Film Reactor tank with four reactor elements.

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**List of recognized manufacturers for system components**

**Hydro-Kinetic® concrete manufacturers and system assemblers:**

Aubert & Marois Ltée  
842, rue Principale  
Lévis, Québec G6J 1A8

Rénova Béton Inc.  
317, rue St-François Xavier  
Delson, Québec J5B 1X8

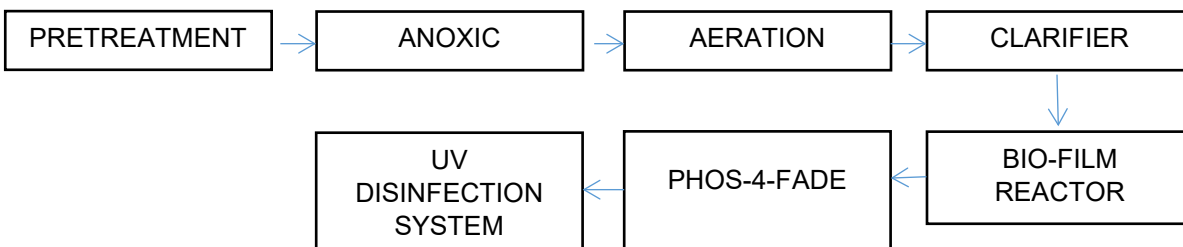
Ciment Lacasse Ltée  
48, montée Laramée  
Ste-Anne-des-Plaines, Québec J0N 1H0

Groupe BPA Inc.  
71, avenue d'Auteuil  
Saint-Basile, Québec G0A 3G0

**Hydro-Kinetic® HDPE components Manufacturers:**

Norweco Inc.  
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**Flow Diagram of Hydro-Kinetic®  
with phosphorus removal and UV disinfection**





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HISTORY	
Date	Modification description
2016-04-22	<ul style="list-style-type: none"> <li>- Hydro-Kinetic® certification (Class III).</li> <li>- Hydro-Kinetic® with phosphorus removal and disinfection units certification (Classes IV and V).</li> <li>- Hydro-Kinetic® with disinfection unit certification (Class V).</li> </ul>
2016-05-27	<ul style="list-style-type: none"> <li>- Addition of models 1260L FEU and 1890L FEU for all Hydro-Kinetic® treatment classes.</li> <li>- Addition of Hydro-Kinetic® with phosphorus removal (Class IV)</li> <li>- Updated model numbers for all Hydro-Kinetic® treatment classes.</li> <li>- Addition of HDPE manufacturers.</li> <li>- Addition of flow diagram of Hydro-Kinetic® with phosphorus removal and UV disinfection.</li> </ul>
2016-06-20	<ul style="list-style-type: none"> <li>- Addition of the UV lamp authorized in sections mentioning the disinfection.</li> </ul>
2018-04-13	<ul style="list-style-type: none"> <li>- Renewal of certificate.</li> </ul>
2018-05-31	<ul style="list-style-type: none"> <li>- Addition of Ciment Lacasse Ltée as new concrete manufacturer and system assembler and removal of Entreprises Chartier Inc.</li> </ul>
2018-09-18	<ul style="list-style-type: none"> <li>- Addition of Entreprises Chartier (2009) Inc. as new concrete manufacturer and system assembler.</li> </ul>
2019-02-04	<ul style="list-style-type: none"> <li>- Withdrawal of Entreprises Chartier (2009) Inc. as manufacturer and system assembler.</li> </ul>
2019-09-06	<ul style="list-style-type: none"> <li>- Correction of model 3780L (instead of 3870L).</li> </ul>
2020-04-22	<ul style="list-style-type: none"> <li>- Renewal of certificate.</li> </ul>
2020-06-04	<ul style="list-style-type: none"> <li>- Addition of models 1260L-3M, 1260L-UV-3M, 1260L-P-UV-3M, 1260L-P-3M, 1600L-3M, 1600L-UV-3M, 1600L-P-UV-3M and 1600L-P-3M and precision on the integration of UV reactors inside Bio-Film Reactor tank and Phos-4-Fade tank.</li> </ul>
2022-02-18	<ul style="list-style-type: none"> <li>- Withdrawal of Ciment Lacasse Ltée as concrete manufacturer and system assembler.</li> </ul>
2022-04-13	<ul style="list-style-type: none"> <li>- Renewal of certificate.</li> </ul>
2022-09-13	<ul style="list-style-type: none"> <li>- Addition of models 1260L-DT and 1600L-DT for all Hydro-Kinetic® treatment classes.</li> </ul>
2023-01-20	<ul style="list-style-type: none"> <li>- Addition of Ciment Lacasse Ltée as concrete manufacturer and system assembler.</li> </ul>
2023-03-14	<ul style="list-style-type: none"> <li>- Addition of models 1260L-DT and 1600L-DT for treatment class IV.</li> </ul>
2023-09-26	<ul style="list-style-type: none"> <li>- Precisions on all Hydro-Kinetic® models.</li> </ul>
2023-11-30	<ul style="list-style-type: none"> <li>- Addition of Béton architecturaux Breton B.A.B. inc. as concrete manufacturer and system assembler.</li> </ul>
2024-04-25	<ul style="list-style-type: none"> <li>- Renewal of certificate.</li> </ul>
2024-04-30	<ul style="list-style-type: none"> <li>- Addition of models 1890L-DT, 2270L-DT, 3020L-DT and 3780L-DT for all Hydro-Kinetic® treatment classes.</li> </ul>



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## HISTORY

Date	Modification description
2026-04-15	<ul style="list-style-type: none"> <li>- Withdrawal of Béton architecturaux Breton B.A.B. inc. as concrete manufacturer and system assembler and Addition of Groupe BPA (formely Cimenterie Genest) as concrete manufacturer and system assembler.</li> <li>- Renewal of certificate.</li> </ul>