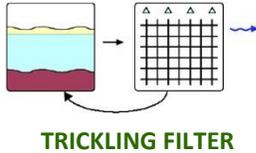


*Firm:* Premier Tech Aqua (div, Premier Tech Technologies Ltd.)  
[www.premiertechaqua.com](http://www.premiertechaqua.com)

*System:* Ecoflo CoCo Filter ECDn Model Series

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*Category:*



*Process:* Wastewater first enters a septic tank for primary treatment. The effluent then travels by gravity to a tipping bucket over distribution plates guiding effluent over the filtering media. Collected wastewater is pumped to a flow divider, where 2/3 is returned to the septic tank for denitrification. 1/3 is sent to the dispersal field/pits.

*System:* Requires a septic tank for pretreatment. System does not replace the discharge components.

*Flow Range:* 460-1500 GPD



*Tests:* NSF/ANSI 245; Pending: Suffolk County Pilot 2

*Cost:* \$7,500 with gravity discharge  
\$8,250 with pumped discharge  
Costs include a septic tank, but not a dispersal system.  
Estimated costs installed are \$14,400 (SC Pilot).

*Energy:* Low, just for recirculation pump, estimated \$3.40/ month

*Tanks:* Concrete or polyethylene, existing if meets criteria  
Option: EcoFlow PACK combines the septic tank and treatment containers, resulting in a smaller footprint.

*Venting:* Normally through the home vent, or remote vent

*Footprint:* 50-93 SF in addition to septic tank and leaching pits/field

*Depth:* Tank: 5.25 – 6.4', so approximately 10' to groundwater.  
Both the concrete and polyethylene tanks can be buried 4 feet in groundwater, so 4' to groundwater is possible.

*Life Cycle:* Filtering media has a normal lifespan of 12-15 years.  
(Cost: \$1,500)

**Premier Tech  
Technologies Ltd.**  
1 Avenue Premier  
Riviere-Du-Loup  
Quebec G5R 6C1  
Canada

*Telephone:*  
418 867 8883

*Warranty:* Pump replacement as needed (\$200 – \$500); 8 years for parts and media, 2 years for electrical parts

*Maintenance:*

Twice for the first two years, once/year afterwards.  
Media needs to be turned to avoid restrictive biomat formation. Pumping of solids, typical for septic tank, is normally every 2-3 years.

*Treatment:*

	<i>TN</i>	<i>cBOD</i>	<i>TSS</i>	<i>DO</i>	<i>pH</i> (6-9)
<i>Performance</i> <i>mg/L</i>	<19	<5	<5	4	7.2
<i>%</i>	54%	98%	99%		

*Notes:*

The coconut husk media retains moisture to help maintain the microbe colony in a dormant state when not in use. A quick recovery occurs when restarted.



Water accumulating under the filtering media lifts a dosing float that triggers the recirculation pump in a flow divider until a lowered water level ends the cycle. Pumps should be protected from freezing if use is stopped in winter.

*Installations:* Over 100,000 installations of the Ecoflo CoCo Filter without denitrification exist in North America and Europe. The denitrification unit is a new modification being installed in Pennsylvania, Maryland and the Province of Ontario in Canada.

*Advantages:*

- Natural, renewable media
- Resilient for uneven use (i.e., weekend)
- Resilient for seasonal use
- Low energy use
- Good warranty

*Disadvantages:*

- Media needs replacement (12-15 years with full-time use)
- Does not handle heavy organic loads, such as that from a restaurant