


**PE-5 Units**  
Product Overview Specifications



**Waterloo Biofilter Systems Inc.**  
 on-site wastewater treatment

**POLYETHYLENE TANKS**

|   | Model | Dimensions    | Flow Capacity (L/d)                |      |      |
|---|-------|---------------|------------------------------------|------|------|
|   |       |               | Loading Rate (L/m <sup>3</sup> /d) |      |      |
|   |       |               | 375                                | 500  | 750  |
|  | PE-5  | 7.5' D x 9' H | 3750                               | 5000 | 7500 |

**PE-5 Specifications**

7.5' D x 9'H Polyethylene Tank

Manifold complete with one TF20-170 spray nozzle to dose Biofilter

Air Fan to circulate air

~10 m<sup>3</sup> of Biofilter medium

1"D inlet for dosing

2"D drain

3"D vent on roof of tank

**PE-5 Requirements**

- Maintain temperature above 8°C
- Connect air fans to a rheostat to control air flow
- Connect 3"D vent of tank(s) to an air fan that blows air out of building
- If phasing, ensure that door/opening has enough clearance for additional PE-5 units
- At least 1' clearance above PE-5 is recommended for O & M
- Stand-alone air fan should be regulated with rheostat to ~½ capacity under normal operation.

**PE-5 Components**

**1. Air Fan**

Circulates air through the Biofilter<sup>®</sup> medium

**2. 2" Drain**

Disposal and/or recirculation to pump/septic tank

**3. 1" Forcemain**

Pipes septic tank effluent into PE-5

**4. 1" Quick Disconnect**

For detaching spray manifold for easy servicing

**5. 1" Tee Fitting**

Acts as a handle for servicing manifold

**6. TF20-170 Spray Nozzle & 1" Manifold** Distributes water onto medium

**7. Access Hatch**

For easy access to spray nozzle for maintenance

**8. 3" ABS Pipes**

Connection for exhaust fan (*typically connects all PE-5 units to an air fan mounted on the wall of building which gently draws air out to the environment*)

**9. 3/16"D Hole** – Introduces fresh air from the building into PE-5

PE-5 Schematic: Side View

