



Qua-vac **Vacuflow**[®]
presented by **newterra**

Vacuum Collection For Decentralized Sewage

Newterra Offers a Clean and Highly Efficient System For Environmentally Acceptable Sewage Disposal



Newterra Value Proposition

- Low Investment Cost
- Minimal Maintenance
- Quick, simple excavation in shallow trench
- No electricity in field
- Low energy consumption
- No potential for ground pollution
- Small diameter piping



Customer Need

As an alternative to costly gravity sewer systems, or high maintenance pumping systems, Newterra offers Vacuflow, a proven, environmentally friendly vacuum collection system from Qua-vac. In particular the technology addresses:

- Replacement for failing septic systems
- Areas with high water table such as:
 - Islands, marinas
 - Coastal communities, lakefront developments
- Areas with deep trench construction constraints:
 - Bedrock
 - Small villages, ribbon developments, remote camps
 - Rolling terrain
- Environmentally sensitive or water protection areas
- New urban development in rural areas
- Retrofit of existing vacuum system components

The Vacuflow/Newterra Solution

Sewage flows by gravity to a Collection Chamber buried in the ground; gravity connection to house (up to 4), or to business, condominium or apartment. A central vacuum system applies a constant vacuum to the piping network, buried in shallow trenches in a sawtooth fashion that allows liquid to be lifted when necessary. Advantages of this system are:

- Lower investment cost due to:
 - Small pipe sizes
 - Shallow, narrow trenches
 - No manholes
 - Pipe around obstacles
 - No lift stations
 - No electricity except at vacuum station
- Sewage never goes septic, low odors
- High velocity in pipes prevents blockages and scours pipe
- No infiltration means smaller treatment system
- No leakage means no environmental damage
- Build in reserve volume at home in case of power outage
- Eliminates potential for H₂S gas hazards

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clean water. modular solutions. *simple.*



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Qua-Vac VacuFlow[®] System

Vacuum Collection For Decentralized Sewage

Specifications



VacuFlow System Components

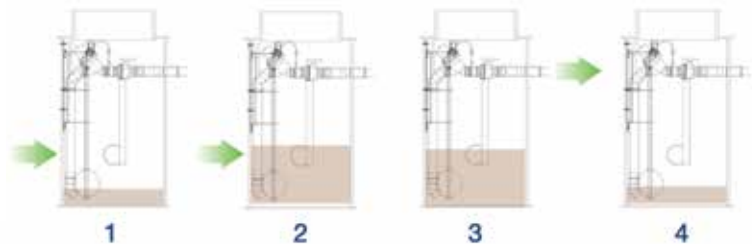
- 1 Gravity connection to house (up to 4), or to business, condominium or apartment
- 2 Collection Chamber with Interface Unit
- 3 Vacuum Connection
- 4 Sawtooth Vacuum Piping in shallow trench
- 5 Vacuum Station*
- 6 Odor control unit*
- 7 Discharge to Newterra treatment system

*may be incorporated in Newterra treatment system



VacuFlow Operation

1. Water flows by gravity to chamber. Vacuflow valve closed.
2. Start level reached, valve opens.
3. Water pulled out of chamber by vacuum, air added in exact mixture to maximize transport.
4. Stop level reached, valve closes.



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