



**Airvac**

The **world leader** in vacuum sewer collection technology.

# Developers Profit from Airvac Vacuum Sewer Collection Systems

...even in a Phased Project.

A brand of  
Aqseptence Group







# Let us help you with a free system layout & budget estimate.

## Reduced Initial Capital Expenses for Phased Projects

### No Manholes Required

This maintains natural beauty and eliminates inflow and infiltration.

### Minimum Surface Disruption

Minimal disruption to existing community.

### Shallow Main Lines

Ease of installation and expansion.

### Eliminate Multiple Lift Stations

One vacuum station can replace five or six lift stations.

### More Lots Available for Sale

Fewer lots needed for lift stations mean more desirable lots are available for sale.

### Expandability

Service may be easily extended into future construction phases.

### Sealed System

Protects environmentally sensitive areas.

### Develop on Difficult Terrain

Difficult terrains are a possibility with our system's unique flexibility.

## Unique Advantages of Airvac Vacuum Sewer Collection Systems

### Low Cost Leasing

Leasing of low-cost containerized vacuum station is available for phased projects. This allows the developer to minimize initial up-front costs.

Once the development is near, or at full capacity, a permanent vacuum station is installed and the containerized station is returned to Airvac.

### Deferred Costs

Some costs of an Airvac system can be deferred, or even passed on to the lot purchaser. For instance, vacuum valves and valve pits do not have to be purchased initially. The developer can either defer this expense until a property is sold, or pass it on to the lot owner by including it in the selling price.



Leasing a low-cost containerized vacuum station is available for phased projects.



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# Airvac offers benefits to developers and the people who buy their homes.

## Developers Can Benefit from Vacuum Sewer Technology

### Cost Savings

An Airvac Vacuum Sewer system uses small diameter pipe laid in shallow trenches with no manholes. As a result, the cost to install a vacuum system is almost always less than a gravity flow system. Once installed, the savings continue as the tight system does not allow infiltration and inflow (I&I). This is especially important when treatment is being provided by others on a cost per gallon basis.

### Easily Expandable

Adding new phases to a development can be quite challenging with gravity sewers. The movement of large equipment and deep open trenches increase the dirt, danger and disruption to the existing neighborhood. These negatives can be minimized with vacuum technology. The net result is a decrease in the liability for harm to people and property and an increase in their quality of life.

### More Lots Available for Sale

One Airvac vacuum station typically replaces five or six lift stations necessary in a gravity-flow system, resulting in additional lots available for profitable home sites. An added benefit is the elimination of hard-to-sell lots that are located adjacent to these lift stations.

### Ability to Develop on Difficult Terrain

An Airvac Vacuum Sewer System can be used to overcome site difficulties such as flat land, sandy soils, high groundwater, and rock, which are common in new developments. Because the horizontal and vertical direction of our sewer mains may be changed easily, developers have more flexibility in site configuration and lot layout.

## Homeowners Can Benefit from Vacuum Sewer Technology

### Reliable Service

Vacuum sewer systems do not require anything from the homeowner. No power is required at the valve pits, so the system will continue to work during power outages. Because wastewater travels through vacuum sewer lines at a very high velocity, clogging and blockages are almost nonexistent.

### Environmentally Friendly

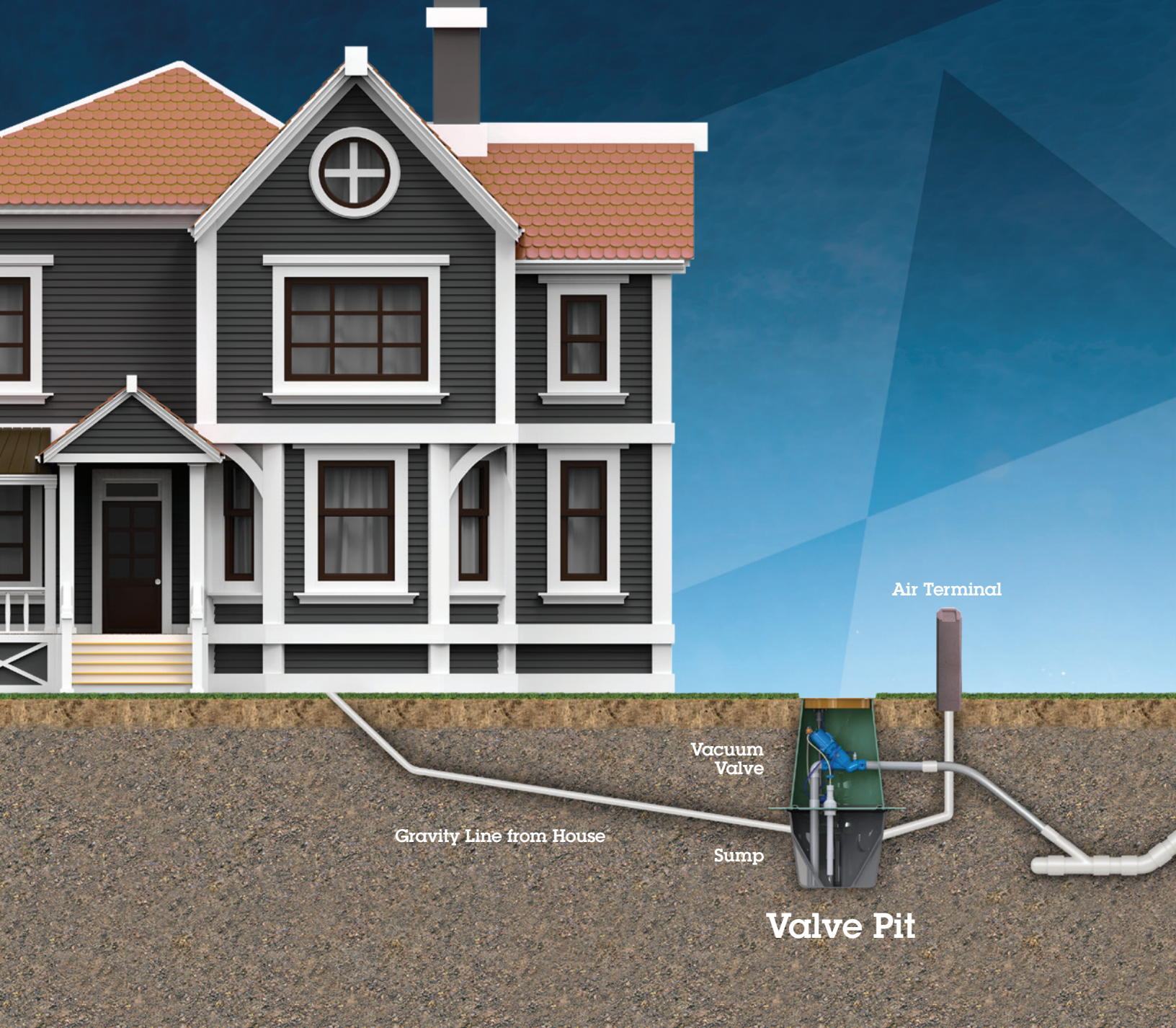
Airvac vacuum Sewer systems conserve and protect natural resources. Shallow, narrow trenches and absence of manholes result in less surface disruption during construction, compared to the deep, wide trenches that are typical of a gravity system. Tight by nature, Airvac vacuum sewer systems are not affected by I&I nor can sewage leak into the environment.

### State-of-the-Art Technology

Airvac vacuum sewer systems are used throughout the world and are rapidly becoming the sewer system of choice for many. This leading edge technology conserves natural resources, is environmentally friendly and allows system operators to avoid direct contact with raw sewage as well as man-entry into confined spaces.

### Universally Accepted Technology

Typically, developers install sewer systems that will be operated and maintained by others, such as a City. With a proven track record in the municipal market, Airvac is available to help the developer explain the features and benefits to those who ultimately must maintain the system.



## How an Airvac Vacuum Sewer Collection System Works

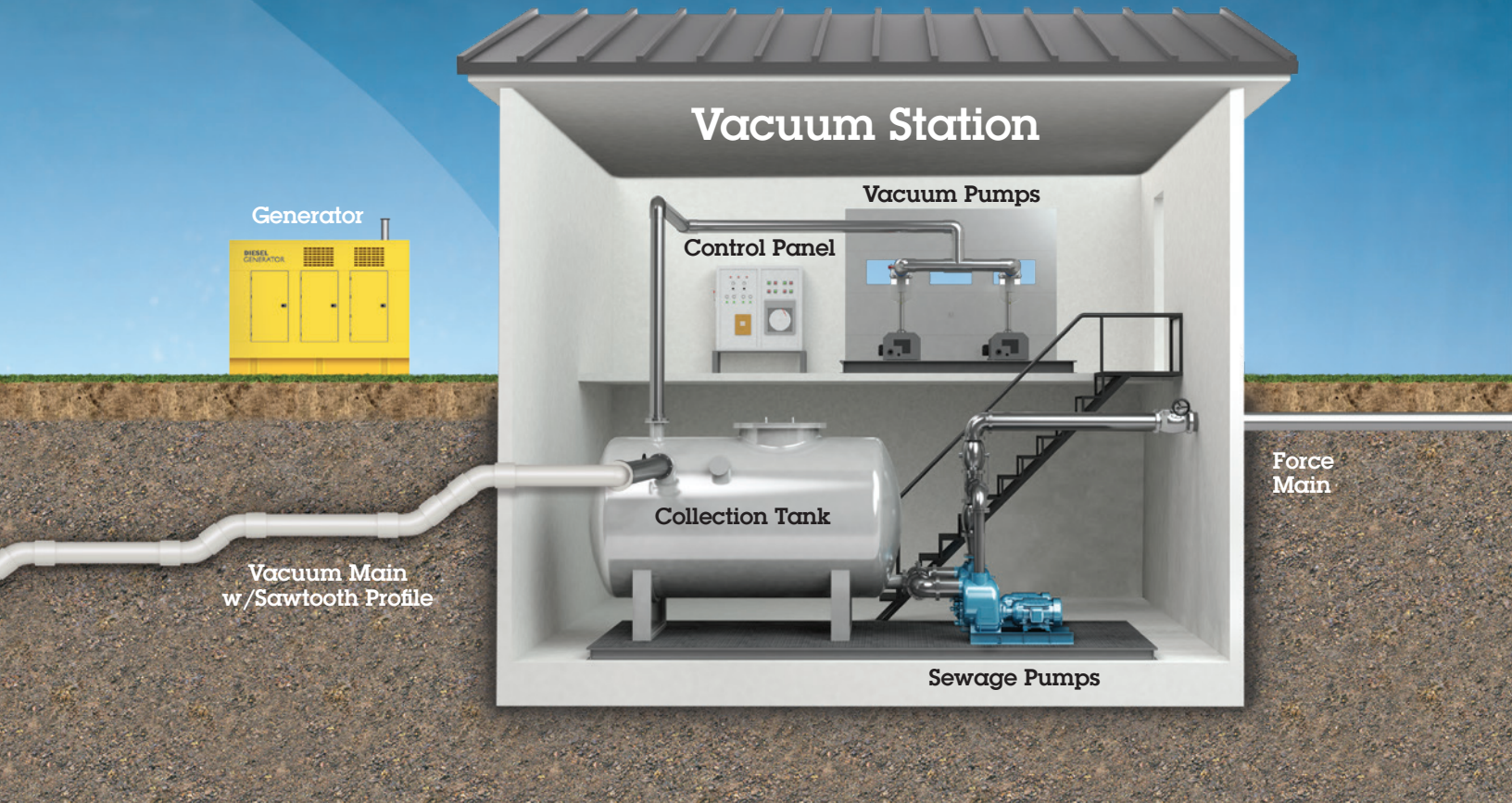
- 1** A traditional **gravity line** carries wastewater from the customer to an Airvac **valve pit** package.
- 2** The Airvac **vacuum valve** opens when 10 gallons of sewage collects in the sump and then differential pressure propels the contents into the **vacuum main**.
- 3** Wastewater travels at 15 to 18 fps in the **vacuum main**, which is laid in a sawtooth fashion to insure adequate vacuum levels at the end of each line.





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The **world leader** in vacuum sewer collection technology.



Our completely closed vacuum sewer collection system prevents infiltration and inflow of groundwater from the valve pit to the vacuum station, protecting waterways from exfiltrating wastewater.

- 4 Vacuum pumps** cycle on and off as needed to maintain a constant level of vacuum on the entire collection system.
- 5 Wastewater** enters the **collection tank** and fills to a predetermined level.
- 6 Sewage pumps** transfer the contents to the treatment plant via a force main.

Let's discuss your solution!

**1-800-AIRVAC9** or visit **airvac.com**

**We provide FREE cost estimates & system layouts.**



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