

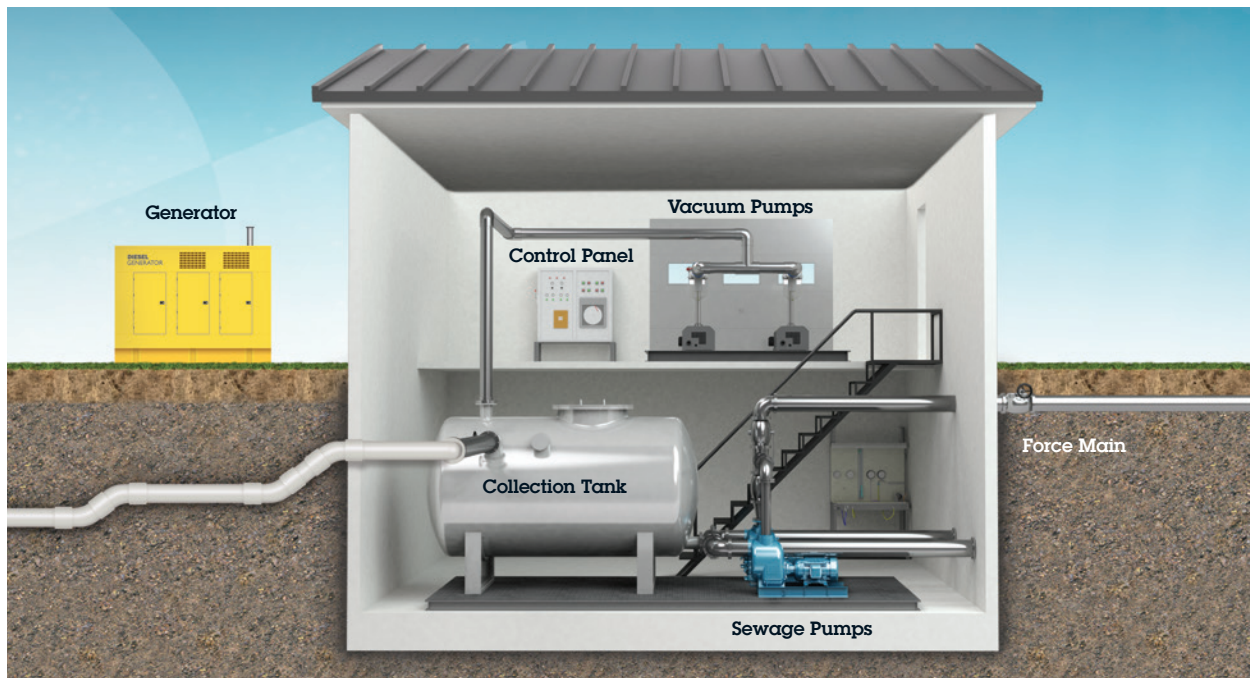


Airvac Engineered Custom Vacuum Station

Airvac offers several different types of vacuum stations. The type of vacuum station used is a function of the project size in terms of connections and peak flow.

Station Type	Connections	Peak Flow (gpm)
Containerized	25 - 300	15 - 200 gpm
PacVac 170M	120 - 550	75 - 350 gpm
PacVac 277M	250 - 1600	150 - 1000 gpm

Prior to the advent of the Containerized and PacVac stations, all vacuum stations were custom-designed with the internal equipment prefabricated and supplied by Airvac and housed in a building custom designed by an engineering firm. For projects where either a Containerized or PacVac type station is not feasible, an Engineered Custom designed station will continue to be used.



Configuration

There are several ways that the equipment can be configured depending on the final design. In some case it may be possible to have all equipment located on a single level and housed in a structure on grade, partially buried or with a basement. In the most common arrangement, the Airvac skid is housed in a two-story structure with the vacuum pumps and control panel located on the top floor and the collection tank and sewage pumps on the lower floor.

Standardization

Collection Tank - Either a fiberglass, 316SS or carbon steel tank, internally and externally epoxy coated is used. Tanks are designed with a working pressure of 20-in. Hg and tested to 26-in. Hg for 5 minutes and 24-in. Hg for 4 hours.

Sewage Pumps - Duplicate horizontal, non-clog or duplicate self-priming centrifugal or dry pit submersible pumps are used.

Vacuum Pumps - Two or more rotary claw type vacuum pumps capable of an ultimate vacuum range of 24-in. Hg are used.

Control Panel - Typical electrical controls include PLCs or relay logic, 4-20ma vacuum transmitter, liquid level controls, IEC or NEMA motor starters, automatic alternators for pump cycling, hour run meters, operator interface touch screen, SCADA integration or a solid-state telephone alarm system, remote access and troubleshooting module, a solid-state telephone alarm system, and a 7-seven day circular vacuum chart recorder with digital totalizers or a graphical data logger.

Responsible Parties

By Airvac - All mechanical equipment including vacuum pumps, sewage pumps and collection tank as well as electrical equipment for all pumps and the control panel.

By Contractor - Site work, construct the vacuum station building, install the Airvac skid, incidental electrical and plumbing, and furnish & install standby generator and odor control.



Airvac

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