

Automated Waste Conveying System

As waste management operations all over the world attempt to become cleaner and greener in the face of new legislation, some companies are looking to move away from the older systems of collecting and transporting waste by road – and are taking the whole thing underground. Here, we take a look at underground pneumatic waste conveying systems and explain the benefits.

Benefits

Pneumatic waste collection systems provide notable long-term cost savings. In order to operate, systems require personnel at the waste station and for maintenance – but no manpower is needed in the actual collection and transportation of waste to the waste station. In addition, no waste trucks are needed to collect waste containers from residential areas, bringing savings in fuel costs and vehicle costs.

While the initial investment cost for a pneumatic system is higher than that of traditional methods, the operating cost of the old system is usually considerably higher, and after the typical estimated payback period of 10–12 years, the pneumatic system is considerably more economical than the conventional one.

In addition to cost savings, pneumatic waste management systems have environmental benefits. As there are no waste collection trucks circling around the residential areas, there are less fuel emissions, less traffic and fewer accidents. It has also been discovered that the waste collection points of the pneumatic system encourage the users to recycle more efficiently. The inlets are never full and the fact that there are no unsightly piles of waste or unpleasant odors is beneficial for both the cleanliness and image of the area. Another benefit is that a pipeline-based waste collection system is very flexible and the system does not get congested – even at peak times.

