

Automated Pipe-Based Solid Waste & Laundry Collection Systems

FOR HOSPITALS, AND AGED CARE CENTERS

SWL HEALTHCARE

ECOSIR
GROUP

Ecosir Group has over 30 years of experience in systems based on vacuum transfer in pipes

Waste management is a visible part of living, and its invisibility is a sign of its proper functionality. Working together with

Ecosir, SWL Healthcare can deliver Ecosir Group's Pneumatic Collection Systems to improve performance of waste,

laundry, and food waste collections as well as comfort and quality of life on many levels by collecting waste and laundry

near the places where they are generated and transporting them through underground pipes into a central collection

station located outside nursing areas.

Hygienic, economical, and compact solution

A lot of time, money and effort can be saved in waste and laundry logistics by means of Caremaster. Pneumatic pipe transportation takes only a few seconds, and it does not require large interim storage areas at wards nor humans for carrying bags from wards to the hospital's central collection facility. The freed space and workforce can be used for productive nursing operations.

When a ward's own personnel can discard waste and laundry bags, there is no need for transport staff of the hospital to walk throughout the hospital collecting them. This will help reduce the spread of pathogens within the hospital.

Moreover, the well-being of employees and patients will be improved when there are no lingering waste and laundry bags or trolleys at wards waiting for collection.

HOW THE SYSTEM WORKS

Waste and laundry bags are deposited into the system through disposal inlets that can typically be found at or near every ward. After depositing a bag into the inlet, it drops down the pipe into a storage section, and at timed intervals, or if the fill level sensor is triggered, the discharge valve opens, and the bag is pneumatically transported by air along the pipe network to the collection station where waste is compacted and sealed into hermetically sealed vacuum containers for transport to an offsite disposal facility.

HOSPITAL WASTE GENERATION

A hospital generates a vast amount of waste and laundry daily that must be collected and transported out of wards. Between 80% and 90% of the hospital wastes produced by healthcare activities are comparable to domestic waste. The remaining 10% - 20% of healthcare waste is regarded as "hazardous" and may pose a variety of environmental and health risks. Ecosir Group focuses on supplying waste collection systems for non-hazardous general sort of healthcare waste.

Caremaster is an airtight system from inlets to the vacuum container and all the way to the exhaust pipe outlet. Before the transport air is released into the atmosphere, it goes through a waste/air separation and dust filtration systems ensuring the exhaust air is clean from waste particles. The entire waste and laundry conveyance process is hygienic and safe while the corridors of the hospital are left free of waste or devices carrying them.

