



**Waste Management
Solutions for a
Better Environment**

PNEUMATIC WASTE & LAUNDRY COLLECTION SYSTEM

PWLCS



ABOUT US

How It Work

Greenvac provides leading pneumatic technologies and smart design engineering that increases a facility’s efficiency and improves cleanliness and aesthetics. It brings powerful continuum of solutions, technology, innovation and execution.

Greenvac (along with its technology partners) works with facility owners, Developers, Architects, Consultants, Governments or stake holders to create a SMART, Green, Healthy & Clean environment through efficient collection Transportation & Treatment of waste & laundry.

An experience of many years in pneumatic automation in various extensive and diverse backgrounds, Greenvac and its technology partners have perfected the development, installation and maintenance of state-of-the-art pneumatic solutions.

Greenvac, is a unit of UNG which has been catering to many sectors since 1953.

Greenvac PWLCS is a totally sealed automated system for collection of solid waste and / or Laundry throughout facilities maximizing performance, efficiency and reliability while delivering exceptional convenience and value. Every system provides simple access and ease of use while minimizing exposure of solid waste and dirty Laundry to users of the facility and the environment around.

New, Upgrade or Retrofit

Greenvac PWLCS can be incorporated into new or existing design.

Whether a single building, a multi building facility or a city center, our engineer design and install a system tailored and customized as per the facility.

Retrofitting into existing buildings or up-gradation of existing gravity chute systems is also possible.

■ Pipe size and applications for PWLCS

Pipe Size (in mm)	Waste	Laundry
300	Hotels / Restaurants	Hospitals
400	Hospitals	Hotels
500	Airports	Seminars
600	Commercial Complex	Apartments
	Exhibition Grounds	
	Multi Storey Buildings	
	Railway Stations	
	Parks	
	Malls	
	Cities	
	Large Kitchens	

Benefits

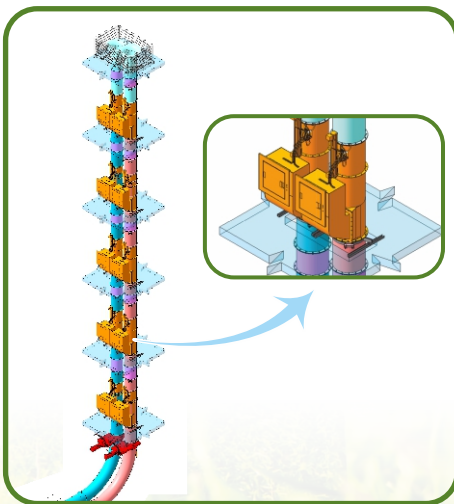
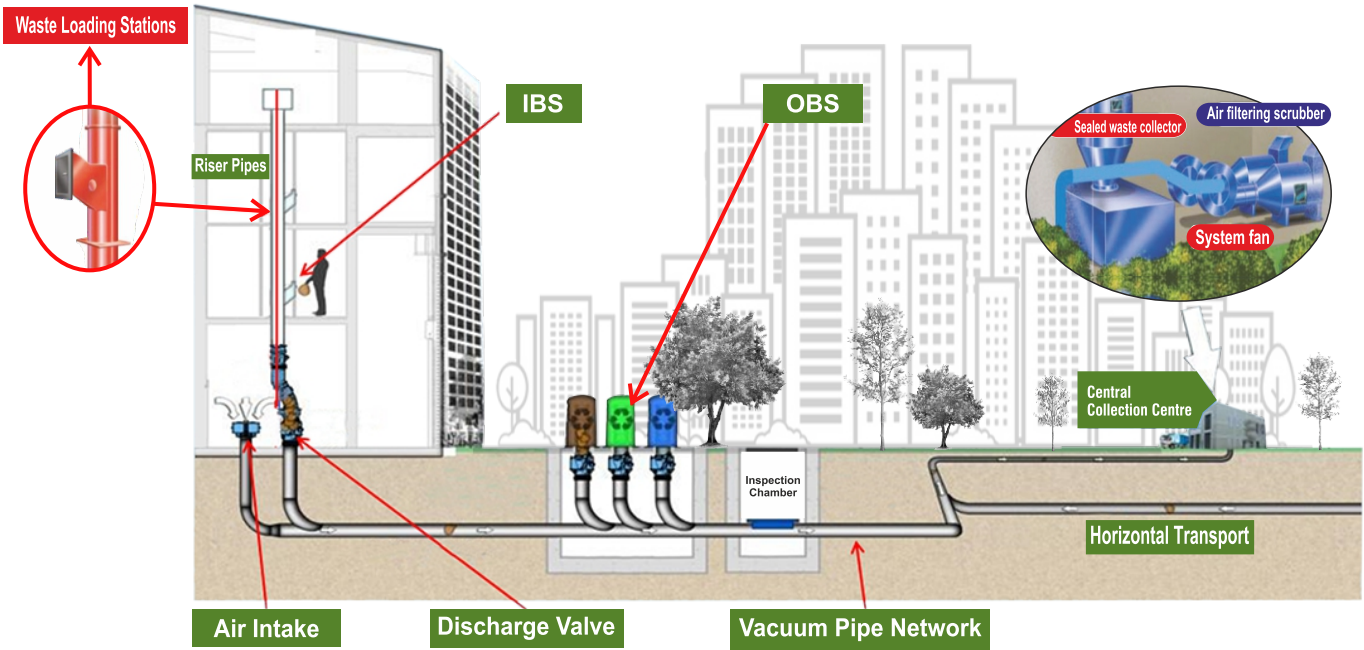
- SMART Utility.
- SMART City Concept.
- Less Visible Trans/Laundry-Minimizes human contact.
- Less staff required for collection & segregation.
- No Odor
- No rodents or insects.
- Less traffic of trucks in the facility.
- Reduces carbon footprint.
- Green solutions.
- Sealed automated solution for transportation.
- No air pollution.
- Eliminates cross contamination.
- Development space saving
- Vehicle expense including fuel, maintenance and purchasing the vehicles themselves is reduced drastically.
- Improves aesthetics.
- No over flow of waste around dustbins.
- Reduced visual impact of containers and having waste in public thoroughfares.
- Only one collection point for entire facility.
- Adhartaal to Swachh Bharat Mission

Cost Savings

- Lowers overall collection expense
- Reduces housekeeping labor costs
- Reduces workplace injuries
- Reduces building wear and tear
- Frees up valuable real estate.

■ Pipe size and applications for other industries

Pipe Size (in mm)	Cash System	Medicines, Blood Samples, Reports etc.	Documents	Jewellery	Hot Samplex (upto 600°C)
90	Banks	Hospitals	Hotels / Restaurants	Mines	Industries
110	Malls	Labrotaries	Hospitals	Factory	
160	Toll Plaza	Research Centres	Airports	Office	
200	Hospitals		Commercial Complex		
	Super Markets		Exhibition Grounds		
	Hotels		Multi Storey Buildings		
			Railway Stations		
			Malls		
			Mines		



In-Building Stations (IBS)

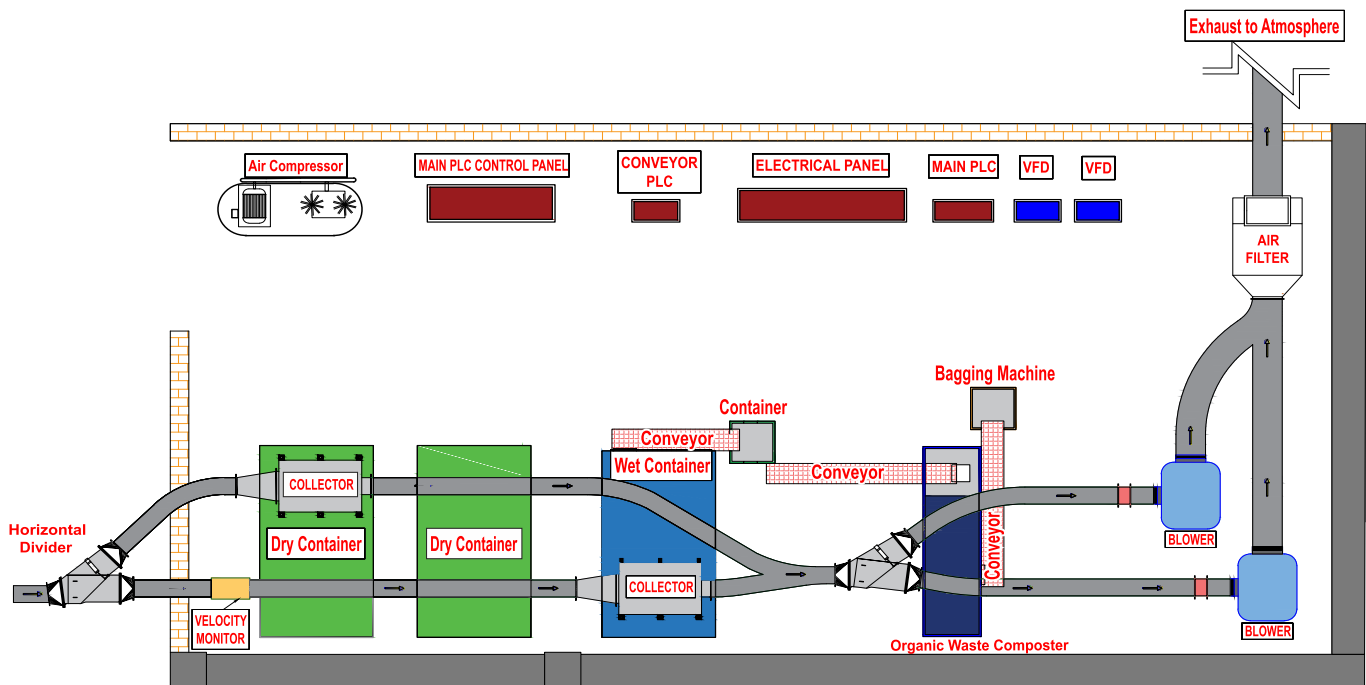


Out-Building Stations (OBS)



Out-Building Station at Railway Station

SEGREGATION OF WASTE



How Does Segregation Work?

1. Type of waste can be selected before disposing off from each loading station.
2. The system (software) knows which type of waste is being disposed.
3. Once the waste reaches the central collection area, that particular type of waste is diverted into the collector for that particular type of waste.

GREENVAC PNEUMATIC WASTE COLLECTION SYSTEM AT HIGH SECURITY OR SENSITIVE AREAS LIKE AN AIRPORT

Key advantages of the system over conventional system:

- Security is not compromised.
- No need for personnel to enter restricted area.
- No need of waste trucks within the restricted area of the facility.
- Emphasis on aesthetics.
- Hygiene is maintained
- Facility are kept cleaner.
- No rodents, insects, flies due to waste.
- Green and SMART concept.
- Increased management tools via secure log-ins for system access.
- Detailed management, reporting and control over the working, etc.



(2) Garbage is thrown in the IBS at every Floor

(1) Air Inlet

Greenvac PWLCS can be incorporated into new or existing building design. A Network of pipes transport the waste or laundry at 60-100 km/hr through Pneumatic Pressure to a central collection area.

AIR SEPARATORS

The air separator separates the air from the transported waste / laundry and the air is processed to the air filter while the waste goes to the Compactor/Container

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(8) DIVERTER

To segregate the flow of garbage waste into dry and wt cyclone collector

(7) BLOWER

Blower fans create air pressure in the pipe line networks

(9) AIR FILTERS

The air is filtered here and dust particals, odors is removed and the air is ventilated in environment

(10) WASTE COMPACTOR

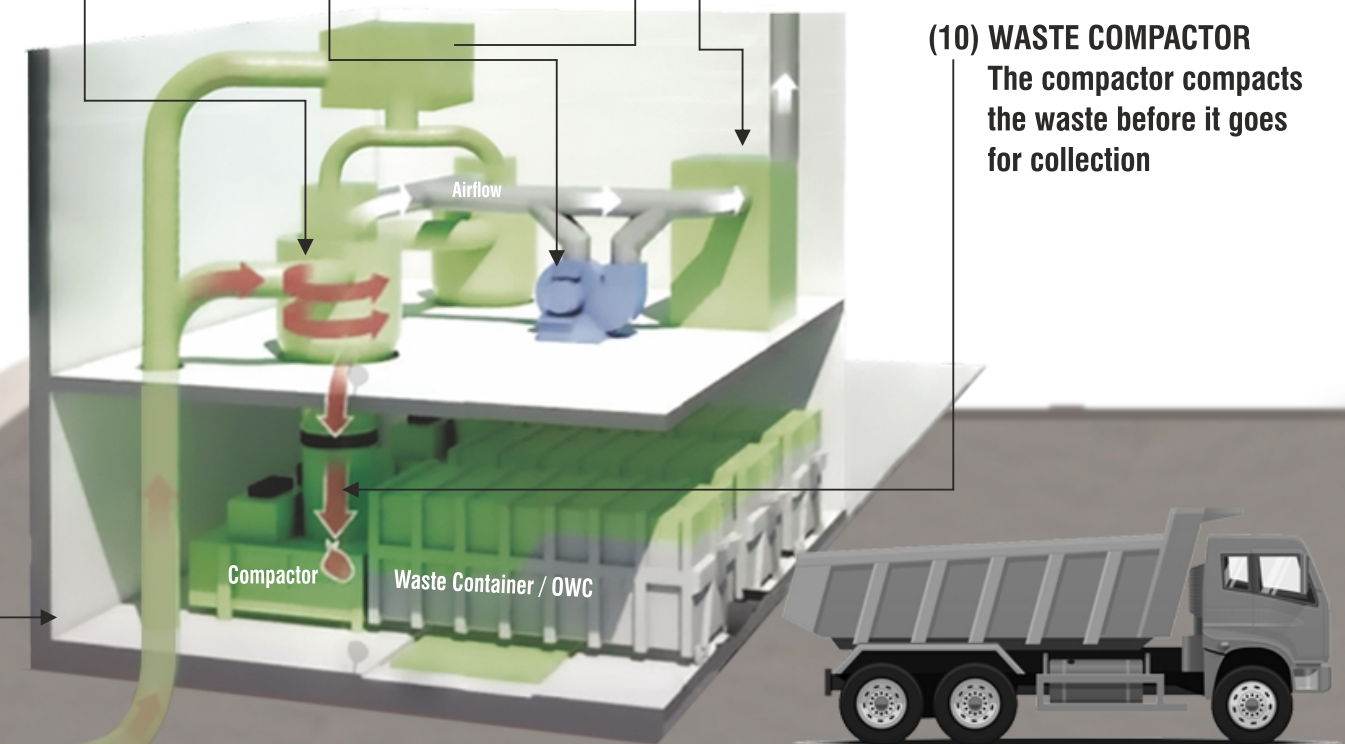
The compactor compacts the waste before it goes for collection

(3) OBS (Out Building Station)

(4) The garbage is stored in the Sub Stations at the bottom of every Vertical Chute

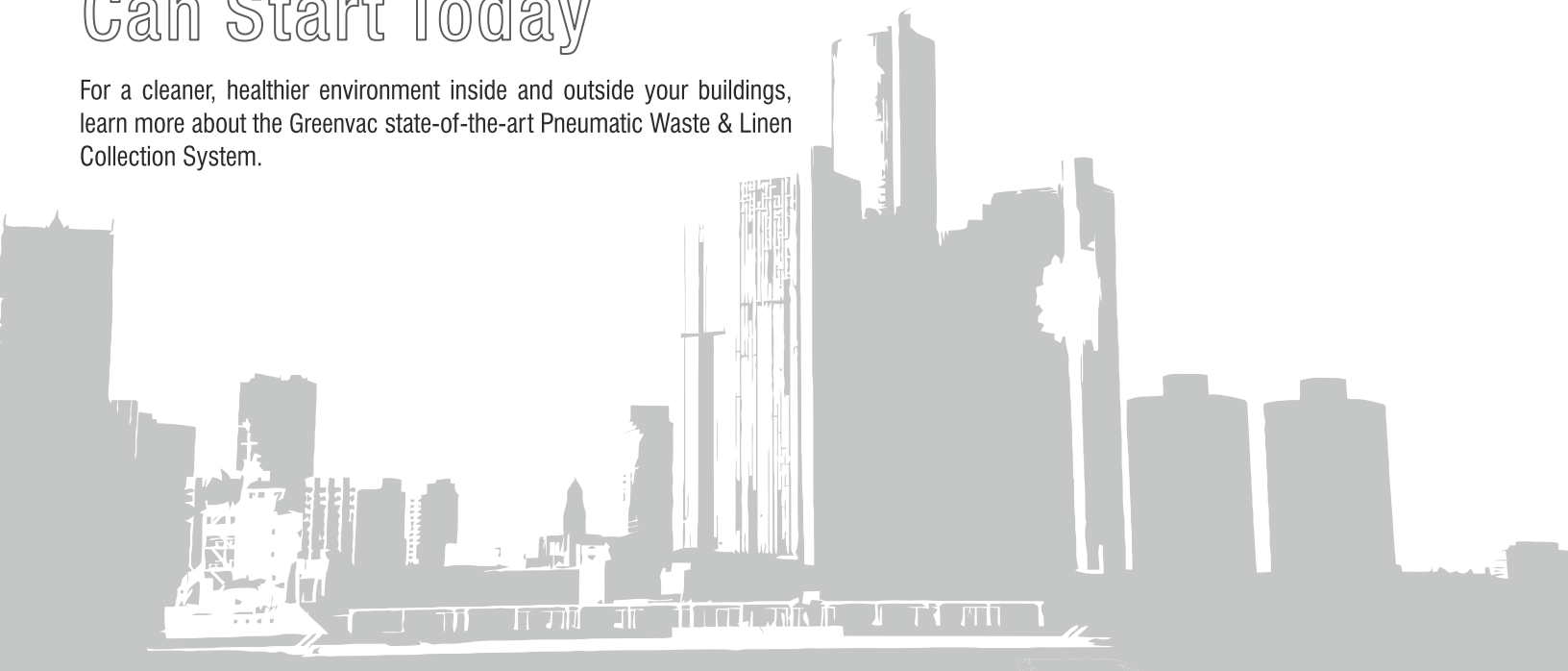
(5) Garbage is transported by Pneumatic Pressure in Pipe to CCA

Central Collection Area (CCA)



A Better Future Can Start Today

For a cleaner, healthier environment inside and outside your buildings, learn more about the Greenvac state-of-the-art Pneumatic Waste & Linen Collection System.



OUR SOLUTIONS

• Pneumatic Waste & Laundry Collection System (PWLCS)

- Pneumatic Tube System (PTS) • Automated Storage & Retrieval System (ASRS) • Smart Bin System (SBS)
- Municipal Solid Waste Treatment (MSW)

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