

Centralised Garbage Collection Systems

Supporting Eco-friendly Society with Safety.



Garbage chutes can be installed in

- Residential, commercial buildings and malls.
- In any duct, common lobbies, landings, staircase mid-landings, utility ducts, dry balconies and kitchens.
- If on floor level, Intake Hoppers shall be at every floor level.
- If at mid-landing, Intake Hopper shall be at alternate floor level.

Advantages of Garbage Chutes

- Facilitates total building garbage collection at one single point.
- Garbage disposal with ease & utmost hygiene.
- Reduces Power consumption.
- "Dry" & "Wet" garbage separate collection possible.
- Widely used all over the World.
- Reduces manpower.

Salient features of Horizon Chutes

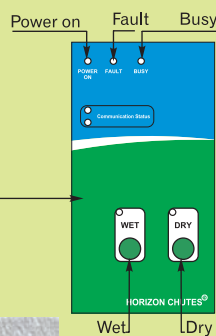
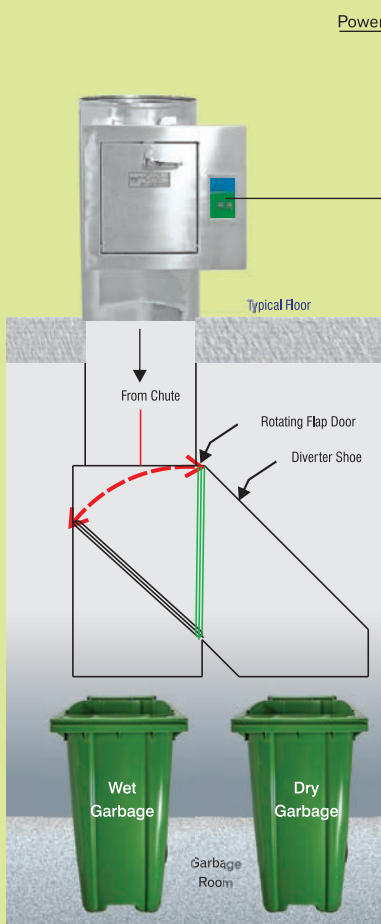
- Manufactured & Installed as per BS 1703:2005, NFPA 82, NBC 2005 & IS 6924:2001.
- Weather proof Stainless Steel construction.
- Sanitation system for internal cleaning of chutes.
- Cleaning operation by control panel in garbage room.
- Disinfectants can be sprayed.
- Exhaust system to give minimum 20-40 air changes/hr.
- Intake Hoppers are 90 minute fire rated UL Labelled 10B.
- Auto closing Intake Hoppers.
- Discharge end fire door.
- Available in different sizes.



G. S. PARKHE INDUSTRIAL MERIT AWARD - 2005
By MCCIA, Pune.



Segregated Garbage Collection System



Segregation

- Municipal norms to segregate garbage in "Dry" (recycling) & "Wet" (Biodegradable) garbage.
- Facilitates segregated garbage collection by using one chute.
- Fully automatic, one user at a time.
- All hoppers are locked normally.

Operational Sequence

- Press any button "Dry" or "Wet".
- Busy indicator and hoppers remain locked for all other floors.
- Chute converts to respective mode "Dry" or "Wet" by rotating flap door in the garbage room.
- Operated hopper unlocked with indication of selected garbage. Bi-sorter, Tri-sorter, Quadra-sorter.
- Open hopper manually & drop respective garbage bag.
- This bag falls in to appropriate trolley.
- Auto closing hopper resets the system for next use.
- Total change over time of 10 seconds.

Salient Features

- A step forward to Eco-friendly buildings.
- Cost of multiple chutes is saved.
- Nurturing civic sense of society.
- Single point collection of segregated garbage, are offered Bi-sorter, Tri-sorter, Quadra-sorter.
- Ease of operation at lower cost.
- More than 2 garbage types can be collected (Tins, Newspapers, etc.)
- The Hopper as well as the Controller is UL rated for user safety.
- Can be installed in maximum 15 storied building or maximum 80 apartments.
- Beyond this two separate chutes line are recommended for segregated garbage collection.

Centralised Garbage Collection System

Material of Construction

- Stainless Steel SS 304/SS 430/ Galvanized steel
- Fibre, Plastic chutes are not allowed considering fire hazard.
- Thickness – 1,2, 1,5, 2 mm depends on dia of chute.
- Structural steel frames for Floor level supports.



Intake Hoppers

- Top opening, bottom pivoted, Auto closing hopper for garbage chute.
- Fire rated, 90 minute UL Labelled 10B. Max. temp. rise of 121°C in 30 min, Underwriters Laboratory (UL) USA.
- 2 hours fire rated chute hoppers are also available.
- As controller for interlocking or sorters is part of chute intake hopper, controller has to be UL listed & we have separate certification for UL listed controllers.
- Fixed with chute in face with front wall.

Vent

- Removes foul smell and gases generated and exhaust above roof level.
- Installed at roof level, operated by control panel.
- Designed to give min. 20/40 air changes/hr.
- Reduced diameter vent or full diameter vent.
- Exhaust min 1.2 meter above roof level.
- Flashing can be provided if required.

Various type of Intake hoppers

- Standard manual opening & auto closing. Interlocking manual opening & auto closing.
- Bio-sorter, Tri-sorter, or Quadra -sorters for collection of different types of segregated waste.
- Pneumatically operated auto opening & closing (ADA Compliant) hoppers of all above types.
- Chute doors with interlocking and access control system.

Sanitation system for chute

- Cleans the chute from inside, to maintain hygiene.
- Installed at roof level & operated by Control Panel in the garbage room.
- 120° solid-cone profile discharge sprinklers provided at every intake level.
- Different sprinklers at every level keeping discharge constant irrespective of changing inlet pressure as per building height.
- 2 minutes of cleaning cycle every day.
- Water and disinfectants are sprayed during the cleaning cycle using PVC pipes.

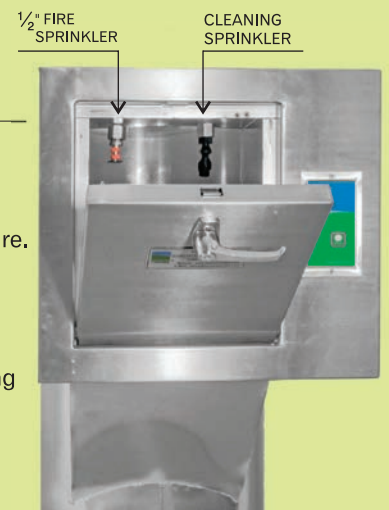
Chute Fire Safety

Intake Hoppers: Fire rated 90 minute UL Labeled 10B. Max.

Manufacturing and installation codes and standards. BS 1703:2005, NFPA 82, IS : 6924 -2001, NBC 2005 : Clause 3.4.8.3.



Horizon Chutes offers intake Doors which are Fire rated 90 minute UL Labeled 10B. Underwriters Laboratory (UL) USA. Also 2 hours fire rated chute hoppers are available. As controller for interlocking or sorters is part of chute intake hopper, controller has to be UL listed & we have separate certification for UL listed controllers. Each chute door assembly should poses appropriate UL label.



Fire Sprinklers

- Standard response fire sprinkler, 68°C to extinguish fire.
- Installed at top and bottom intakes and in between alternate floors.
- 1/2" IPS (BSP) female threading ready to be connected to 1" or 2" wet riser of fire protection system.

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Horizon Chutes Pvt. Ltd.



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In view of our constant endeavor to improve the quality of our products, We reserve the right to alter or change specifications without prior notice.