

Categorie Premio

Accessibilità

Sostenibilità

Qualità della vita

**Product Name**

Waste collection pneumatic system

**Designer**

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**Description of innovation social values**

- product category
- formal and functional features
- problems solved by innovation
- user
- field of application

City waste is not anymore collected with trucks, but it is transported through a subterranean pipe net thank to a powerful air flux.  
 The citizens or users confer their waste to the Envac system through specific inlets placed in the streets or inside the new buildings, splitting it in the different requested kinds  
 The Envac system during its transport, maintains the separation of the different kind of waste done by the citizens.  
 Waste is then stocked inside different containers little pressurized, placed in a technical building called Collection Station, which is completely integrated in to the city layout.

Envac system can be installed in city districts, into big buildings, and hospitals or in airports, everywhere there is a significant city waste production.

**Description of technical features**

- operations
- technology

Once waste is stocked into the inlets, the systems starts and creates an air flux for the remote part of the inlets to the central station, transporting the different kinds of waste in different moments. Keeping the fractions done by the citizens. The transport air, once it had been cleaned from suspended powder and smells, is returned to the environment. When the power supplied to the Envac Collection Station is CO2 free, all the waste city collection is CO2 Free.

**Dimensions**

Envac has installations with pipe nets long up to 11km, The maximum distant for an inlet from the central station is 2 km bird fly. The technical building hosting the central station has an area of minimum 100m<sup>2</sup> and a maximum of 500m<sup>2</sup>. An installation has the capacity to serve up to 25.000 users/citizens equivalent.

**Materials**

The pipe net the inlets and most parts of the central station are in carbon steel. to stand at least 40 years.

**Certifications**

ISO 9001 : 2008

**Benefits for environment**

No more waste collection truck travelling in big city areas  
 No more waste containers or bins on the road for waste stocking.

**Benefits for human being**

NO more waste bags in the streets, or in the internal courts.  
 Heavy trucks traffic reduction in the Envac served areas.  
 Recover of public areas for a better use than the waste stocking.