

MetroTaifun[®]

Automatic Solid Waste Collection



The next generation of
Waste Collection Systems

MariMatic[®]
A MariCap Company

6/2011

Waste is a Serious Problem for Many Cities



Waste causes a bad impression and reduces liveability.



Waste causes noise and pollution issues.



Waste causes hygiene and odor problems.

Make Your City a Better Place to Live



The MetroTaifun system is an automatic solid waste collection system (AWCS) based on pneumatic conveying technology.

With MetroTaifun several waste fractions are easily collected, transported and sorted into separate containers. This facilitates recycling.



Efficiency by Innovation



MetroTaifun AWCS is fully scalable and adapts to suit different Applications, Areas and Waste type:

- Larger Districts or Quarters
- Housing Estates
- High-rise buildings and Shopping malls
- Hospitals and Elderly care homes
- Airports and Terminals
- Arenas and Stadiums
- Municipal Waste Systems
- Kitchen Waste Systems
- Litter Bins Waste Systems
- Sanitary Waste Systems
- Glass and Metal Waste Systems
- Laundry Systems

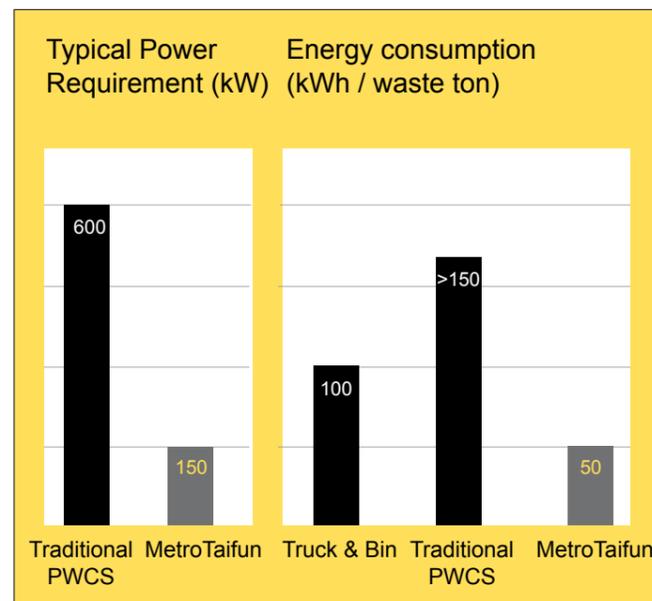
MetroTaifun benefits

The most significant innovations of the system are the reduction of the pipe diameter typically from 500 mm to 200 mm and the Ring-line type pipe lay-out.

The reduction in pipe size is being made possible through the development of the MetroTaifun Formator solution, which formats the waste to fit the smaller pipe.

The Composite piping material enables fast and economical installation, requiring 50% less installation time compared to conventional pipe installation.

These innovations reduce the Energy Consumption, Blower sizes and blow-out air volume to 1/3, thus preserving the environment through the reduction of odor, noise and particle emissions.

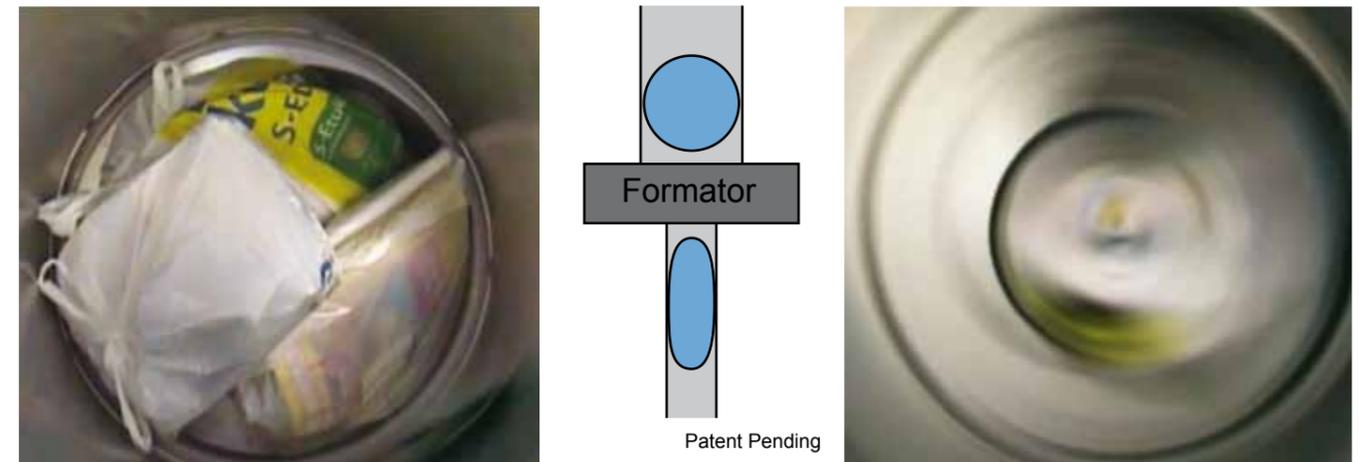


Comparison MetroTaifun vs Traditional PWCS

System Layout



The MetroTaifun system consists of waste inlets which are connected with piping to the central waste collection station. A modular layout allows for easy and efficient installation.



MetroTaifun Formator formats rapidly the waste to fit 200 mm pipes.

Case Tampere Vuores



Vuores is a joint district of Tampere and Lempäälä being currently developed on the borderline of Tampere and Lempäälä. By 2015 the district will be equipped with housing for more than 13.000 residents and facilities for 3.000 – 5.000 employees.

The MetroTaifun Automatic Waste Collection System was selected for Vuores since it consumes only 1/3 of the energy compared to conventional pneumatic waste collection solutions and 1/2 of the traditional garbage truck and container based collection method. When ready, the system will consist of about 400 waste inlets and 13 km of pipe work. The MetroTaifun automatic waste collection system will initially start to collect waste in the 2012.

The smaller pipe size allows also for the system to be easily retrofitted into existing infrastructure.



Features:

- Lower initial investment
- Lower risk of blockages
- Less prone to corrosion
- Can handle more waste fractions
- Possible to retrofit
- Less conveying air and power
- Lower Energy consumption
- Smaller Pipe size
- Lower Installation cost
- Faster Installation
- Space Savings
- Lower Operation cost
- Less Odours and Emissions

Options:

- Ring-Line system
- Blockage Removal system
- Pipe Flushing system
- Pipe Drying system
- Pipe Warming system
- Pipe Cleaning system
- Spark Detection & Suppression
- Gas detection system
- Fire detection system
- Fire suppression system
- RFID identification system
- Garbage chute connection
- Remote diagnostics

Winning points compared to conventional PWCS systems

System Comparison: MetroTaifun vs. Traditional PWCS



Traditional PWCS Blowers, 5 x 120kW



MetroTaifun Blowers, 3 x 50kW



Traditional pipe installation



MetroTaifun composite pipe installation



We are leading supplier of pneumatic waste collection systems with a 25 year track record and more than 600 systems delivered worldwide.



MariMatic systems are used in municipal waste as well as industrial waste applications.



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We are a member of the MariCap group www.maricap.com. The head office of MariMatic is located close to the Helsinki-Vantaa airport in Finland.