



bin-UP
solar compactor



*non è necessario
rinunciare al passato
per entrare nel futuro*

John Cage



Airone
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BIN-UP

THE INTELLIGENT SOLAR-POWERED WASTE COMPACTION BIN, FOR PUBLIC SPACES

Bin-Up is a solar-powered smart compaction bin designed for high-footfall spaces such as town centres, supermarkets, airports, urban parks and theme parks.

Thanks to its waste-compacting capacity, the bin can contain up to 5 times more waste than non-compacting containers. It is powered by solar energy and does not require a mains connection. Thanks to the high efficiency of the battery, waste compacting can continue for up to 3 days in the absence of light.

Resistant to weathering and vandalism. The steel is treated with cathodolysis and then powder coated, while the solar panel is protected by a breakproof polycarbonate shell. A flame sensor warns the operator of danger, and starts compaction by trying to extinguish the flames.

Safe. A range of sensors and safety systems guarantee use as a normal waste bin. When the fill-level sensor detects the presence of waste above a certain level, the hatch closes and the compaction process is started. When the compaction process is complete, the hatch opens up again to allow more waste to be deposited. If the bin can no longer hold additional waste (this is unlikely, as the system is calibrated to warn the operator in case of overcapacity), the hatch remains closed so that the bin cannot be used.

Emptying is less frequent, easier and safer. Thanks to its waste compaction function and large capacity, Bin-Up needs 80% less emptying than a traditional bin, which means lower operating costs. The use of standard 120L forklifts makes for easy, safe handling by operators.

Smart. Waste management is entrusted to Bin-Up-Cloud, the cloud app used to store all the waste data. The system of alerts tells the operators when the bin needs emptying, avoiding bin overflow and partial emptying. When multiple bins are present, the system will plan and optimise the emptying route, which means that the bin trucks only travel to where the bins are full, minimising the travel distance. This leads to significant fuel savings and consequent reduction of CO₂ emissions.



DIMENSIONS H x W x D (mm)	1500 x 920 x 810
WEIGHT	approx. 225Kg
POWER SUPPLY	50 Watt - 12 Vdc Polychrome silicon solar panel
MATERIAL	Stainless steel - Shatterproof polycarbonate
BATTERY	Lithium, 20 Ah at 12 Vdc
INNER CONTAINER	120L standard trolley
COMPACTION	5/7x (600/840 l)
SENSORS	waste level, IoT controller, battery level, flame detection.
OPERATOR INTERFACE	Web portal

