Cool comfort and fresh air for commuters in transit

Bus stops are hotspots of personal exposure to heat stress and harmful airborne particles such as PM2.5. At the Airbitat Oasis Smart Bus Stop, transits are about to get a whole lot cooler, fresher and more comfortable for commuters.

Cool Comfort
Escape the tropical heat and humidity, and experience cool breezes within the bus stop while you’re waiting to catch your next bus.

Breathe Fresh Air
The Airbitat Oasis Smart Bus Stop filters out harmful airborne particles, and actively supplies fresh air for each breath.

Smart Sense
Built with smart sensors to enable automatic tracking of commuter traffic to adjust cooling modes, track average waiting time and commuter flow to better inform bus operations, as well as detection of unusual activity such as loitering and unattended bags.

Powerful Cooling You Can Feel
Powered by the revolutionary cooling technology, the Airbitat Oasis draws in heated ambient air and transforms it to cool breezes for a refreshing experience. With its innovative 3-step cycle, it cools deeper than conventional evaporative cooler without refrigerants or a compressor, while being up to 70% more energy efficient than air conditioners.

Step 1
Creating cold water
Cold water is generated in the upper segment of the cooling system by flowing water through panels of evaporative medium, supercharging the cooling cycle.

Step 2
Cooling air rapidly
Cold water fuels the ultra-efficient heat exchanger in the cooling system. Ambient air passes over the heat exchanger, rapidly lowering air temperature without adding any moisture.

Step 3
Deep cooling through evaporation
The cooled air then passes through a second panel of evaporative medium, emerging as deeply cooled air streams from 24°C.

*Output temperature is highly dependent on ambient conditions
Fresh Air with Every Breath
Inbuilt with an advanced air purifier system that can filter out harmful airborne particles such as PM2.5, the bus stop supplies and maintains constant clean air zones for commuters within.

Step 1
**Trapping large particulates**
Pre-filter that traps large particulates, debris and dirt.

Step 2
**Air particles are electrically charged**
Smaller air particles are charged through an electric field.

Step 3
**Captured and filtered**
Electrically charged plates attract and capture air particles, removing them from the air stream.

Built with Smart Sense
The Airbitat Oasis Smart Bus Stop is built with computer vision and smart sensors, allowing it to sense and react to ambient conditions and situations.

**Smart Operation**
Smart sensors detect ambient conditions and commuter traffic to deliver energy-smart cooling. It also analyses commuters’ average waiting time and commuter flow to help inform bus stop capacity, scheduling and operations.

**Smart Alert**
The Airbitat Oasis bus stop is inbuilt with computer vision and advanced analytics, allowing it to identify situations such as suspicious activities and send automated alerts.

**Smart Data**
Embedded sensors detect the environment condition in real-time, keeping commuter up-to-date on the latest ambient changes.

For enquires, please email us at contact.innosparks@stengg.com

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