

CityCat V20e Product Presentation

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Function Overview





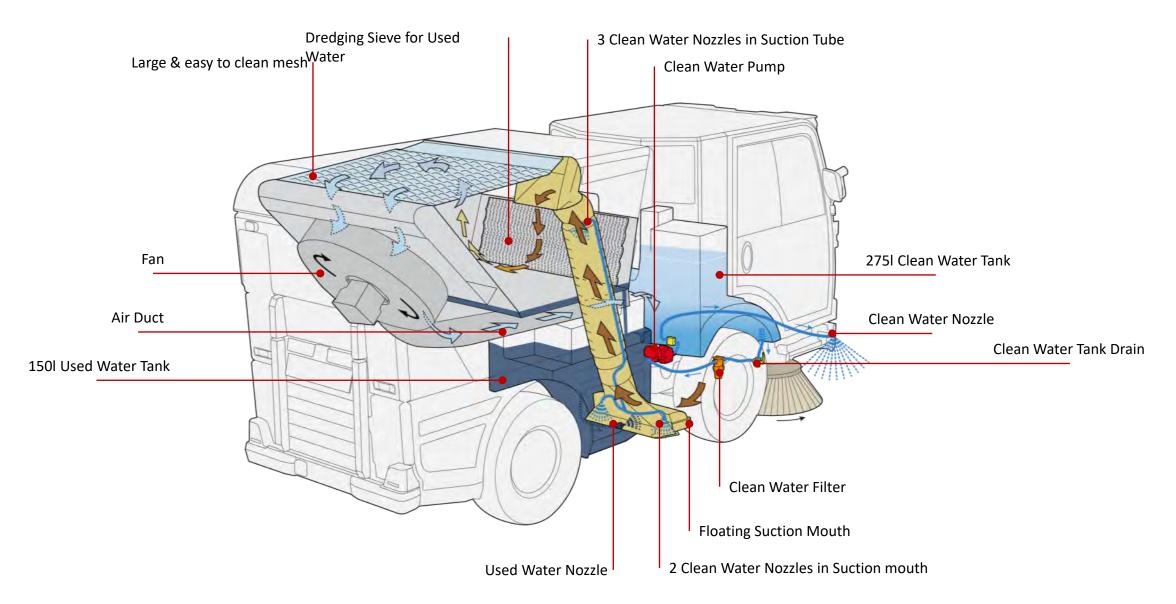
Function Overview





Sweep System





Bucher Battery Pack





Chassis





Electric Drive Train





- Driven by electric motor
- Zero Speed Holder
- Bucher Gear Box with Torsen differential
- No hydrostatic drive
 - -> lower maintenance
 - -> less oil changes,
 - -> less contamination of the oil

Water Supply

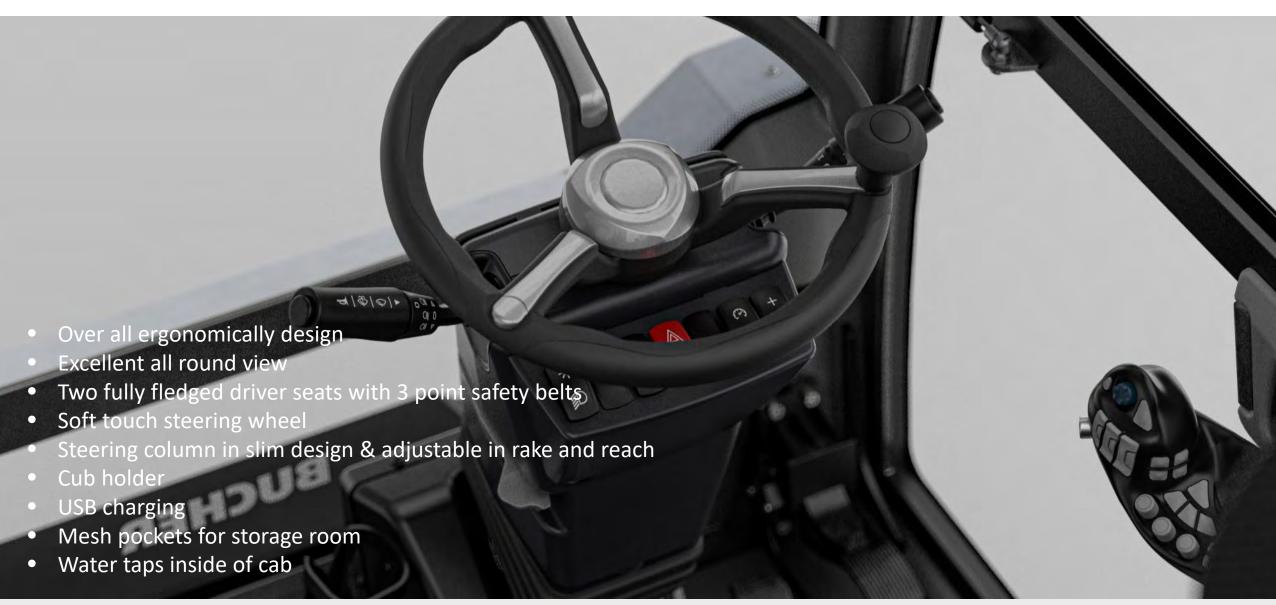


- Polyethylene Tanks
- 275 | Water tank
- 150 l used water tank
- Used water tank optional clean water tank expansion
- Used water supply without pump



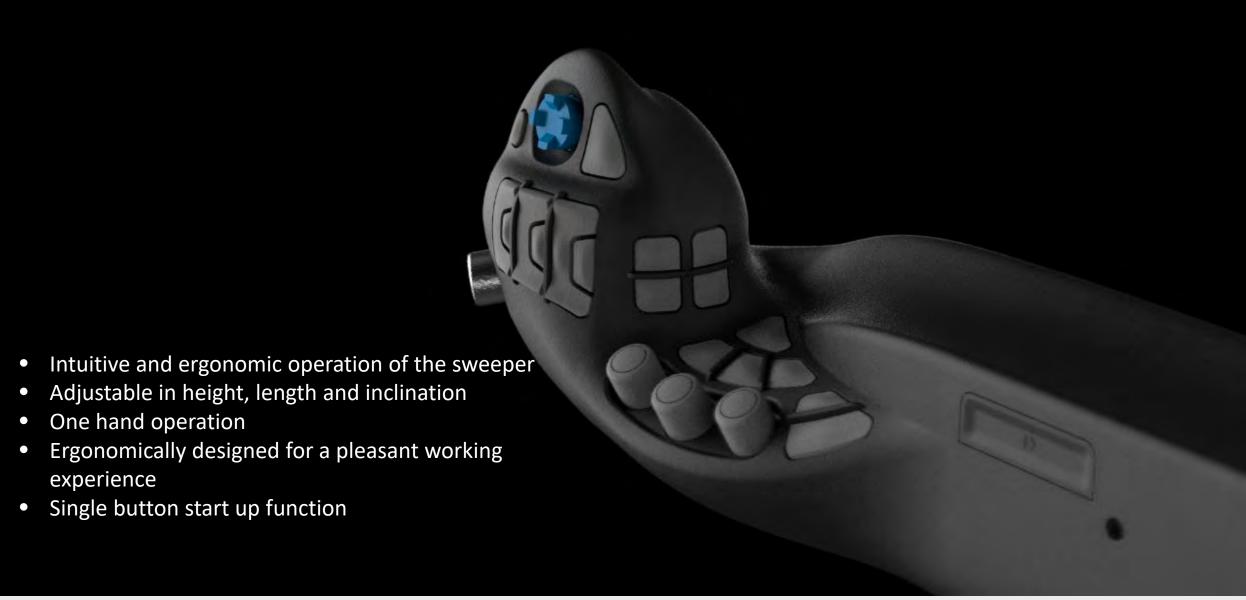
Cab





Multifunctional Armrest





Safety & Comfort



- Excellent overview for all automotive information
- Pop ups for work functions.





The CityCat V20e Performance & Data





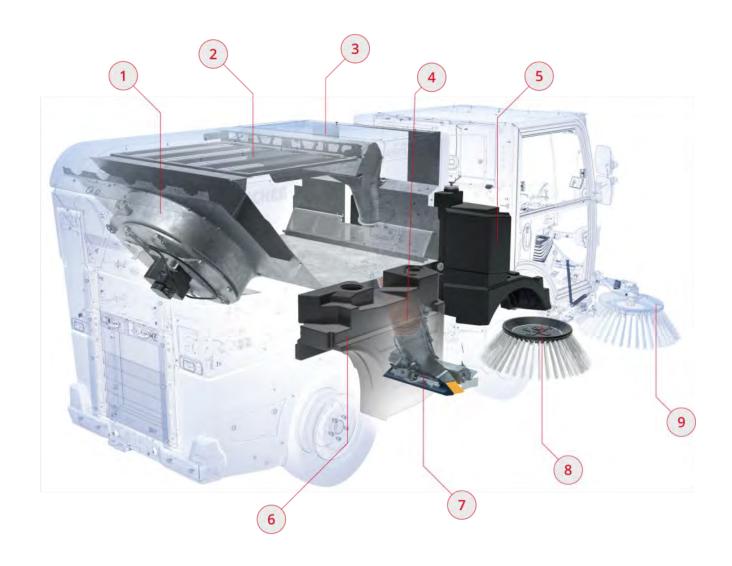
Dimensions		
Length		4200 mm
Width		1300 mm
Height		1990 mm
Wheelbase		1900 mm
Track		1085 mm
Cleaning width		2100 mm
Cleaning with 3rd brush		2700 mm
Weight		
Empty weight		2700 kg
Payload		2100 kg
GVW		4800 kg
Noise level		92 dB(A)
Tires	215 / 75 R16 C M+S	

Drive system	
Working speed	0 – 15 km/h
Travelling speed	0 – 50 km/h
Climbing ability	up to 25%
Electrical traction drive	40 kW
Electrical fan drive	8.5 kW
Electrical hydraulic aggregate 12 kV	
HV Battery	
Battery type	Li-ion
Battery capacity	63 kWh
Nominal voltage	355 Volt
Operating time	up to 8 hours
Charging system	
Internal charger	22 kW
Charging inlet	Type 2
Charging time	2.5 to 3 hours

Sweep und suction system



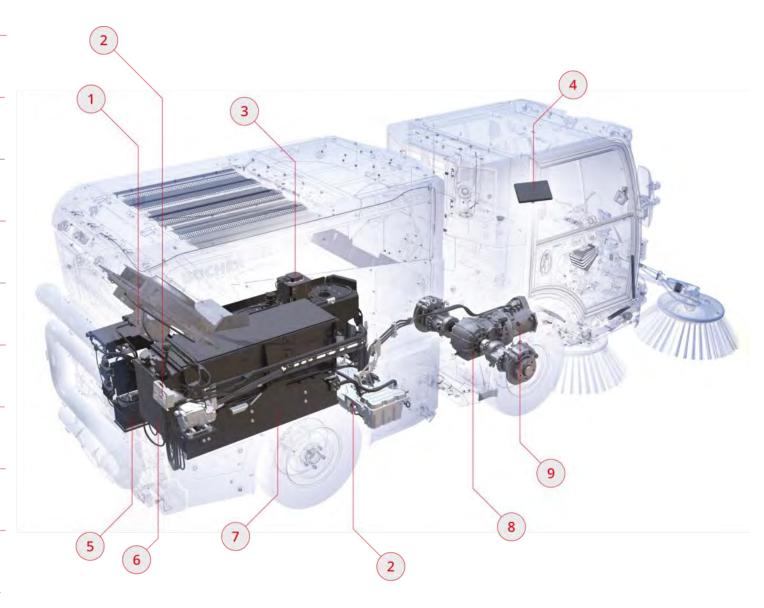
- Optimised fan arrangement, with bigger, optimised blade wheels for greater efficiency
- Easy to clean mesh in hopper to prevent clogging by leaves and debris
- Large 2m3 hopper with "easy clean" option available
- Straight suction hose providing optimum air flow with minimum risk of blockage
- Large 275L fresh water capacity for maximum operating times
- 6 150L tank for used water (and optional fresh water extension) separated from hopper for easier cleaning and low point of gravity
- Flow-optimised, floating suction mouth with gimbal suspension for uneven surfaces ensures maximum air velocity for perfect sweeping results
- Maintenance free sweep gear. 0-120 rpm, infinitely adjustable. Overlapping of suction mouth and brush due to unique brush arm design
- Water nozzles for maximum dust suppression



Function Overview Electrification



- Electric motor for fan
- Type 2 charger socket and on-board 22 kW charger with charging time of 2.5 hours
- Hydraulic aggregate with electric motor
- 4 10.1-inch touch display with insights regarding battery status, charge state, battery recuperation and remaining sweep hours
- 5 12V battery for vehicle electrical system
- 6 Easy access to high voltage distribution unit
- 7 HV 63 kWh Li-ion battery, custom-designed to the sweeper with a working time of up to 8 hours
- 8 Bucher drive gearbox with torque sensitive Torsen differential
- Drive train with electric motor and energy recuperation when decelerating



Safety & Comfort



- Two full value seats with head-rests and three-point safety belts on both driver and passenger seats, offering a comfortable and safe experience
- 2 Excellent all-round view due to the continuous windscreen, all glass doors and the two rear windows
- Intuitive, one-handed operation of the sweeper via an adjustable multifunction armrest allowing sweeping to start with the push of a button
- 4.3-inch display for overview of all automotive information as well as setting feedback which pops up
- Throttle and brake pedal positioned in line for more foot room and increased movability
- Gas spring-loaded steering column, adjustable in rake and reach for a tailored setup
- 7 Ergonomically designed workstation for enhanced operating experience in roll-over proof aluminium cabin
- 8 Low-energy LED lights to illuminate the sweeping area, ensuring a safe view and visibility for third parties
- The 10.1-inch touch display for operating settings and functions enables extended setting possibilities and diagnostics of the vehicle





Thank you!

