

Second place at the GreenTec Awards in the category Auto Mobility

The secret is revealed! Bucher Municipal earned with its world premiere, the zero-emission all-electric sweeper CityCat 2020ev, the second place on GreenTec Awards 2016 in the category Car Mobility. In this competition the best environmental projects 2016 were honoured.

Technological innovations like weight reduction, mileage optimization, life-cycle extension, production, or materials, as well as environmentally friendly mobility concepts and mobility services qualify for the category Automobility. Commitment and technology is at the centre of attention. Decisive criteria for the award are the project's contribution to the protection of the environment, the level of innovation the idea represents, and whether the idea is a suitable messenger for more eco-friendliness in the area of mobility.

The online voting and the GreenTec Awards jury have determined this year's nominees.

Bucher Municipal is delighted to be chosen as the second place winner, with his new all-electric CityCat 2020ev.



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Tradition meets innovation



Your Bucher Municipal contract partner:



Innovation • Competency • Reliability • Sustainability

CityCat 2020ev

CityCat 2020ev

Tradition meets innovation

The Bucher CityCat 2020ev is the first all electric compact sweeper in the 2m³ range. The machine sets new standards in terms of noise reduction, zero emission and efficiency without compromising the performance.

Neither payload, nor suction or sweeping performance have been restricted.

A special objective was to unify ecology and economy.

Therefore, the CityCat 2020ev is significantly quieter, has zero emissions and is more cost-efficient as sweepers with a diesel engine.

Thanks to the drop out of fossil fuels, lower maintenance, service and repair costs, the operating costs are around 75 % lower than with conventional diesel vehicles.

One single sweeper can save around 26 tons of CO₂ emission per year.

Technical specifications CityCat 2020ev

Dimensions

Width	1300 mm
Height	1990 mm
Wheelbase	1935 mm
Max. cleaning width Type SL / XL	2070 / 2660 mm

Weight

Unladen weight	3050 kg
Payload	1450 kg
GVW	4500 kg

HV Battery

Battery type	Li-ion
Battery capacity	56 kWh
Nominal voltage	355 Volt
Systempower	70kW
Sweeping Range	
Load cycle analog EN15429-2	up to 8 hours

Charging system

On-board charger	22 kW
Charger socket	Type 2
Charging time	2.5 hours

Drive system

Working speed	0-12 km/h
Travelling speed	0-40 km/h
Climbing ability	bis zu 30%

General

Tyres	215 / 70 R 15 C
Noise level to 2000/14/EG	92 dB(A)

Technical description CityCat 2020ev

Chassis 2-piece steel frame welded from rectangular steel tubing. Articulated steering with torsion stabilisers. Suspension of both axles with leaf springs, in front additionally with shock absorbers.

Axles and steering Drive-axle at the front with differential and reduction gear. Hydrostatic controlled articulated steering.

Brakes Hydraulic dual circuit braking system with disc brakes front and rear. Spring actuated parking brake acting on front axle with hand brake valve.

PSS (Programmable Sweeping System) Easy to survey and ergonomically arranged operating and monitoring instruments. CAN bus controlled PSS with coloured flat-screen monitor. Acoustic warning system for temperature and fluid level monitoring.

Cab Comfortably suspended sound insulated aluminium cab. Front screen in heat reflecting, curved, low reflection safety glass. Doors with electric windows. Variable heater, sun screens, screen wiper with washer. Fully adjustable comfort air suspension driver's seat. Adjustable steering wheel. Integrated working lights on the cab.

Pick-up system The wide, cast aluminium suction nozzle is suspended on a floating mechanism between the front wheels. Adjustable high performance suction fan.

Hopper Stainless steel hopper, capacity 2.0 m³
 Dumping height 1350 mm
 Dumping width max. 1200 mm

Water system
 Fresh water tank under cab ca. 300 l
 Recycling water in the hopper 80 l

Brushes
 2 side brushes left and right Ø 800 mm
 Variable speed adjustment 0-150 U/min

Impactproof brush suspension

Options
 - Air conditioning
 - Hydraulic lateral adjustment of side brushes
 - Wander hose
 - Combi Cab suspension

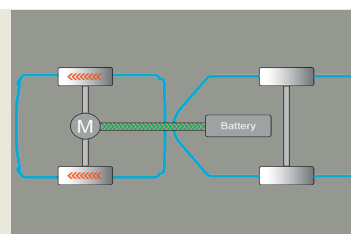
A range of optionals is available - Contact us for more information.



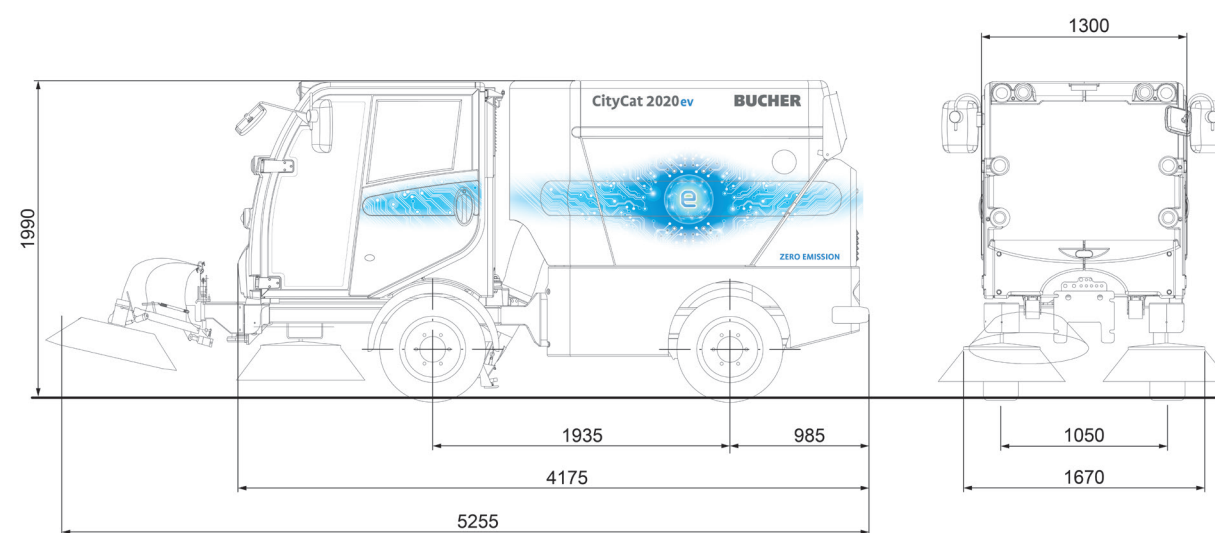
Zero Emissions The CityCat 2020ev makes sustainable street cleaning a reality: ultra-quiet, emission-free, people- and environmentally-friendly road sweeping.



Operating noise under 2000/14/EG: 92 dB(A) Due to the very low noise emissions, operations are possible around the clock, even at night. The CityCat 2020ev is around 10 dB(A) quieter than conventional sweepers.



Energy recovery Depending which recuperation level is selected the high-voltage battery will be charged during the deceleration. Thus, the range will be further extended.



Technical data are subject to change without prior notice.



4.3" Touch-Display An additional display shows all relevant information of the electric system and thermal management.



On-board charger The 22 kW on-board charger means that batteries can be recharged in just two to three hours at any public car-charging station.



High capacity battery Pack The exceptionally robust and maintenance-free design provides a long service life and due to the liquid cooling and heating a minimized battery aging.