

**BUCHER**  
municipal

# Bucher CityCat VR50e

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Performance package in the compact class







# Bucher CityCat VR50e

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The Bucher CityCat VR50e sets a new standard for compact sweepers with its unique design and pioneering technology. A Bucher CityCat VR50e mid-sized vacuum road sweeper provides the best of both worlds; maneuverable dimensions combined with heavy-duty suction performance – an ideal combination for sweeping urban areas where large hopper capacity and compact agility are equally important.



# High performance and productivity

The Bucher CityCat VR50e delivers on performance. It has the appetite of a large truck mounted sweeper, the functionality of a multipurpose vehicle and the maneuverability of a compact sweeper; all delivered in a single package, designed and built to the exacting standards required by demanding municipal environments.

The all-electric Bucher CityCat VR50e is powered by a 137 kWh Bucher Battery Pack which provides the autonomy to fulfill a full 10-hour shift.

Heavy-duty suction power and a high payload are combined with a four-wheel steering system as standard, to provide capacity and agility without compromise.

Comfortable in heavy-duty cleansing environments and crowded streets, the Bucher CityCat VR50e easily cleans urban areas.

With the 7.3 yd³ hopper, and an optional water recirculation feature, the Bucher CityCat VR50e achieves increased on-station working time and reduces tipping, enhancing productivity and reducing running costs.

The two side brushes in combination with a 3rd brush have a maximum sweeping width of 148". The sweeping system can be hydraulically moved 15" laterally to the left or right-hand side of the sweeper.

## BBP

Specially designed Bucher Battery Pack tailored to the Bucher CityCat VR50e

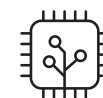
## Class leading turning circle

232" curb to curb

## High payload

Up to 10,400 lbs at 23,200 lbs GVW (dependent on configuration)

# The Bucher CityCat VR50e delivers



## Smart-Con

Multi-functional armrest with smart start function combined with 4.3 inch driver display

## CSense display

10.1 inch touch display with intuitive design for extended functions and information

## Steering

Hydrostatic controlled four-wheel steering



## Water tanks

Optimized moulded design with easy removal for maintenance

## Pick up system

Pulled brush system with suction intake in front of axle, hydraulically laterally movable

## Steel hydraulic pipes

Up to 60% less hydraulic hoses than other sweepers in this class



## Hopper

7.3 yd³ hopper volume with high dump option

## Water volume

232 gallon water capacity



## Disc brakes

Front axle with dual calipers, rear axle with single calipers

## Water recirculation

Service water is filtered and fed to the suction intake



## Electric drive

Can switch seamlessly from forward to reverse and work mode/transit

## Battery isolator switch

Allows safe working and prevents an accidental discharge



4 wheel steering



3<sup>rd</sup> brush



7.3 yd³ Hopper



137 kWh Bucher Battery Pack



Wide suction intake



Floor glass panel



# Low environmental **impact**

**Electric drive**

With our all-electric Bucher CityCat VR50e sweeper, sustainability remains a key focus. Bucher Municipal has specially created a custom-designed Bucher Battery Pack that's tailored to the sweeper. This proven technology subjects minimal footprint to the environment and achieves low noise emissions.

**Low water usage**

The Bucher CityCat VR50e uses a recirculation system to reuse the water inside the hopper. This reduces refilling costs and extends on-station time.

**Dust emissions**

EUnited 4 star certified for PM 2.5 and PM10.

**High dust suppression**

Water jets on each brush provide a fine clean water spray to trap dust particles lifted by the two (optional three) brushes. In addition, recycled water from the hopper is filtered and fed into the suction intake.

**Bucher Connect**

Enables a reduction of energy cost while increasing productivity.

**Bucher  
Battery Pack**

Zero emission

**PM 2.5  
and PM10**

EUnited 4 star  
certified





# Safety and comfort

Bucher Municipal is dedicated to achieving the highest productivity from its sweepers. We believe enhanced operator comfort and safety directly relate to productivity and equipment performance. That is why our sweepers are designed to give the best driver comfort and ease of operation, as well as providing a safe work environment for the driver and for third parties.



- 1

Three person cab with two full value seats and additional 3rd folding seat, offering a comfortable and safe experience
- 2

Middle console with USB plug, cup holders, phone holder and an optional air-cooled compartment
- 3

Intuitive, one-handed operation of the sweeper via an adjustable multi-function armrest allowing sweeping to start with the push of button
- 4

4.3 inch display for overview of all automotive information, as well as setting feedback which pops up
- 5

Storage compartments underneath the seats as well as various storage nets provide space for all important belongings
- 6

Gas spring-loaded steering column, adjustable in rake and reach for a tailored set-up
- 7

Slim center console with 10.1 inch touch display that enables advanced settings and diagnostics of the vehicle
- 8

Low-energy LED lights to illuminate the sweeping area, ensuring a safe view and visibility for third parties
- 9

Excellent all-round view due to the continuous windscreen, all-glass doors and the two lower windows



**Smart-Con armrest**  
Multi-functional armrest with smart start function makes it possible to operate all working functions with one hand.



**Smart-Con driver display**  
All relevant information and pop-up feedback at a glance at any time thanks to the digital 4.3 inch display.



**Cabin**  
Walk through cab with clear side vision and big wind-screen. Easy reach/use control panels positioned to the front and side of the operator.



**CSense display**  
10.1 inch touch display with intuitive design for extended functions, central overview of all settings and visual diagnostic system. The displayed vehicle setup can be individually chosen by the driver.



**Operator safety**  
Automatically engaged mechanical hi-vis body prop.



**Control panel on the steering column**  
The control panel contains all driving relevant buttons, easily and quickly accessible.



# Low cost of ownership

- Water recirculation system reuses the service water from the hopper and feeds this to the suction intake to minimize fill-ups and maximize-on station time.
- Disc brakes on both axles are self-adjusting and reduce service time.
- Energy-saving LED Lights offer more powerful lighting while significantly reducing the number of times bulbs require replacement.
- Reduced number of greasing points with autolube option to save on servicing costs.
- Vulnerable nodes and electronic components protected up to IP69 standard and additional covers reduce risk of further water ingress.
- CSense display with full on-board diagnostics for easy fault finding and reduced downtime.
- Steel hydraulic pipes replace flexible hoses to reduce chaffing and premature hose wear.
- Hopper manufactured out of stainless steel for protection against corrosion and wear.



Specially designed Bucher Battery Pack with superior lifetime and minimal memory effect. Made with high quality automotive prismatic Li-ion NMC cells, managed through an automotive battery management system, the battery is placed in a shock, water and dust-proof case. The Bucher Battery Pack is maintenance-free and has a sophisticated repair concept for maximum safety. Due to the electric drive concept of the sweeper, maintenance and service costs in general are kept low.

**Bucher Connect**

GO / GO+ /  
BASE / PLUS /  
MAX

**Hydraulic**

Optimized design for  
less maintenance

**Fan**

Heavy-duty fan with  
wear resistant blades

**LED lights**

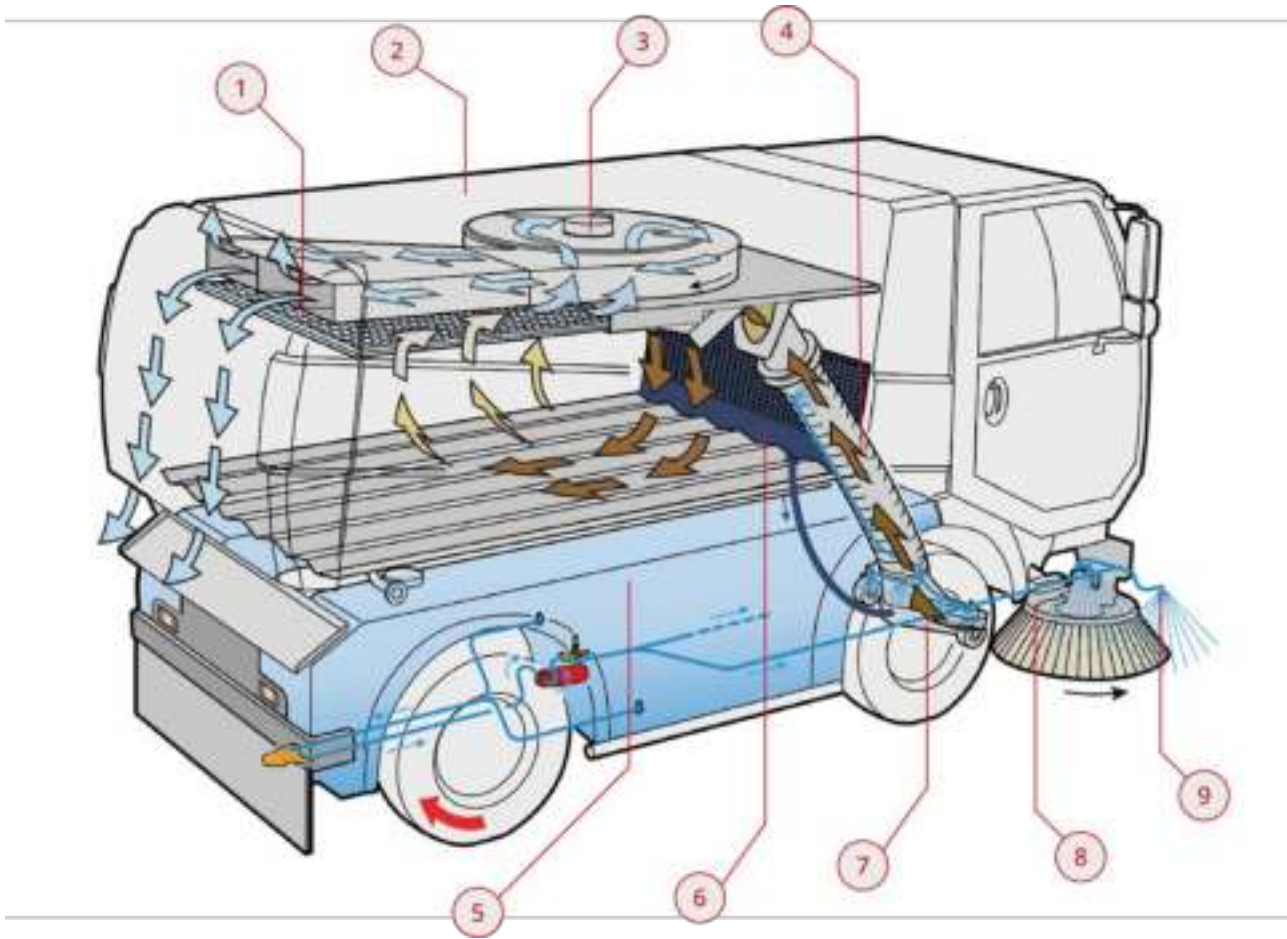
Energy-saving yet  
powerful





# Sweep and suction system

High productivity starts with the interaction of driver and equipment. The sweeping system combined with a large water and hopper volume are the basis for achieving this goal. The pulled brush system with a 15-inch lateral adjustment is easy to maneuver so the driver can focus on the road and the optional 3<sup>rd</sup> brush.



- |   |   |   |
|---|---|---|
| 1 Large, easy to clean mesh inside the hopper to prevent clogging by leaves | 4 Bucher DNA straight suction hose with water nozzles for dust suppression          | 7 Wide 800 mm suction intake, laterally adjustable                |
| 2 Large 7.3 yd <sup>3</sup> hopper with water recirculation system          | 5 Big 232 gallon fresh water volume with tank placement for a low point of gravity  | 8 Pulled brush system, whole system laterally adjustable          |
| 3 Fan arrangement on top of the hopper for optimal air flow                 | 6 Recirculation system which feeds the service water directly to the suction intake | 9 Water nozzles for maximum dust suppression, adjustable from cab |

# Significant options



**Road construction brush**  
The road construction front brush is suitable for particularly tough applications, including road construction and weed removal. Furthermore, it has a floor support pressure regulation and a tilt.



**DC fast charging**  
With the CCS Combo 2 fast charging mode, the sweeper can be charged within 1.5 - 2 h with up to 70 kW.



**Deluxe driver and passenger seats**  
Air-suspended seats with back-friendly design, heated seats, automatic weight adjustment and various other adjustment options for greater safety and comfort.



**Street wash system**  
Ample pressure allows market squares, building sites and pedestrian zones to be washed down and left spotlessly clean.



**Wanderhose**  
The wanderhose with hydraulic support enables cleaning of underfloor containers up to 6.5 feet deep. The abrasion resistant, 360° rotatable suction hose has a diameter of 8" with a length of 21 feet.

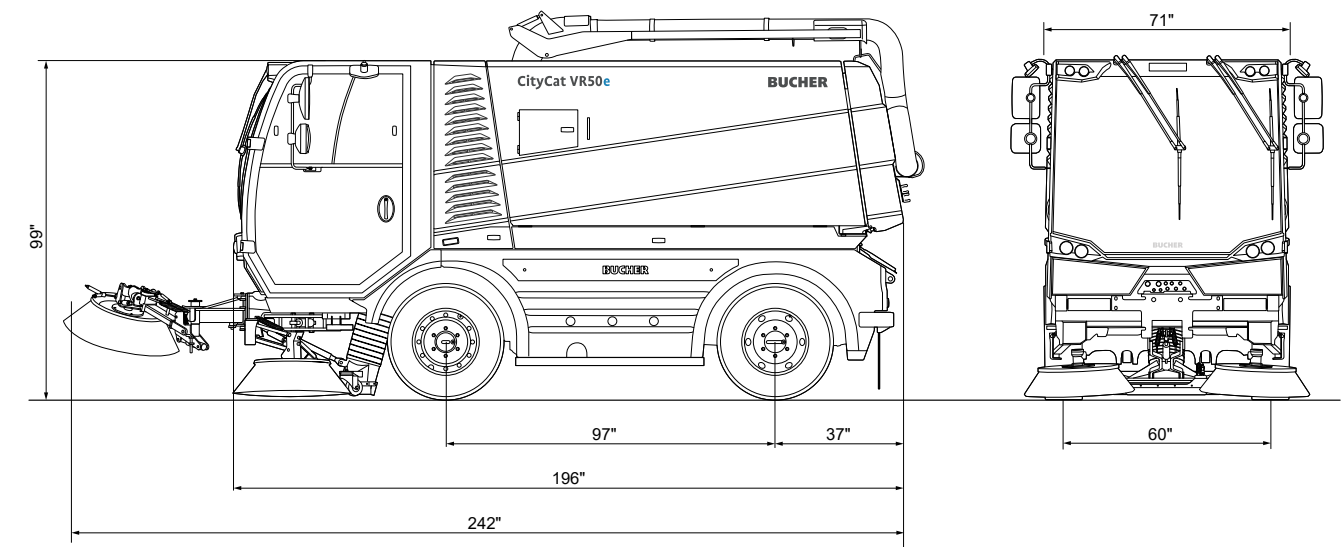


**High dump**  
Allows the sweeping material to be dumped into troughs or dump trucks by having an extended discharge height of 59".





# Bucher CityCat VR50e configuration



Dimensions	
Length	196"
Width	71"
Height	99"
Wheelbase	97"
Track width	60"
Cleaning width 2 brushes	99"
Cleaning width 3 brushes	138"
Turning radius	116"

Tires	
265 / 70 R 19.5 140 / 138M	

Driving Performance	
Working speed	0-12 MPH
Travelling speed	0-31 MPH*
Climbing ability	up to 30 %

Noise level cab	
63 dB(A)	

Chassis	
Bucher fabricated ladder frame chassis with "C" Rail construction	
GVW	23,200 lbs
Empty weight	12,800 lbs
Payload	10,400 lbs

HV Battery	
Battery type	Li-ion
Battery capacity	137 kWh
Nominal voltage	573 Volt
Operating time	up to 10 hours

Charging system	
On-board charger	22 kW
Charging time	5 to 6 hours
External charger DC <sup>1</sup>	70 kW
Charging time	1.5 to 2 hours

<sup>\*</sup> According to national legislation  
<sup>1</sup> Option  
<sup>2</sup> Depending on the respective configuration







# Get Connected

Bucher Connect is a holistic after sales solution. A leading fleet management system, with comprehensive care and a digital platform for your repair and service planning – all in one simple package.

Using Bucher Connect makes the daily workload much easier for owners and managers of any fleet size. Our all-inclusive service offers targeted support and services for street cleaning and clearing operations, to minimise downtime and costs through the optimal efficiency of vehicles and equipment.

## One connection **Many benefits**

**Combining a digital platform with the complete after sales service, Bucher Connect has everything you need to operate your fleet at its best. It can be perfectly tailored to your needs through five different packages, as well as additional services and products.**

### Digital platform

Featuring two components, our «Fleet» module displays current machine positions, error messages with repair suggestions and important vehicle parameters, while «Service» takes care of all your repair and service needs.

This is supplemented by the two role-specific modules: «Jobs» and «Analytics». On a road map, route planning and road sweeps are marked in different colors for easy handling, with individual tracks via the address search.

### «Fleet» for a detailed overview

- Current vehicle status and GPS position to give an overview of the fleet and detect potential breakdowns early
- Automatic fault alerts and digital support to enable quick resolution
- Service reminders for efficient workshop planning

### «Jobs» for route planning and monitoring

- Digital cleaning report instead of manual operating logs and «On the route» KPIs for tracking

### «Analytics» for fleet optimization

- Optimize uptime for improved fleet productivity
- Optimize energy demand for improved sustainability and lower costs
- Easy reporting of vehicle data

### «Service» for repair and service planning

- Access to the e-shop, workshop manuals and maintenance plans for optimal service
- One touch point for all your repair and service needs

### Maintenance and repair

The maintenance and repair service enables you to focus on core business. Your maintenance partner carries out maintenance in accordance with factory specifications and uses trained service technicians, supporting you in procuring spare parts and providing remote support to reduce downtime.

### Digital spare parts procurement

- Proactive service announcement
- Automatic service parts delivery to end-customers
- Time savings and prompt delivery for efficient workshop operation

### Certified service

- Certified service and repair work for optimal fleet availability
- Comprehensive service and repair contract for predictable financial planning

### Technical training

- Technical vehicle training
- Efficient vehicle use and higher first-time fix rate

### Remote support and diagnostics

- Reduced downtime for optimal fleet use



Cleaner streets one  
**sweep** at a time

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Bucher Municipal North America, Inc.



The 5 Things  
You MUST Know  
Before Buying a  
Street Sweeper

At Bucher Municipal, we innovate and engineer better cleaning and clearing solutions, helping our customers grow and maintain efficient and profitable businesses. Leveraging the over 200-year-old heritage of Bucher, we are committed to helping you achieve more using less. Taking pride in being seen as a reliable partner, we work locally with you in realizing the possibilities for a smarter, cleaner and more efficient tomorrow. Today.



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Driven by better



Version 2 08/27/2022  
Technical data is subject to change without prior notice.  
The illustrations may deviate from standard equipment.