

KÄRCHER

makes a difference

SALES AID
BV 5/1 BP



IMPRESSIONS



TOP THREE FEATURES

Full mobility

The new BV 5/1 Bp is a battery operated dry vacuum backpack cleaner. It is convenient with its unrestricted, cordless use and its excellent mobility and flexibility. Cordless working provides safety and eliminates the risk of trips and falls. Furthermore, cordless vacs reduce service costs for replacement of damaged cables.

100 % PERFORMANCE

The machine provides the best cleaning performance on the market. The performance is similar to the performance of mains operated vacs.

EFFORT- AND TIME-SAVING

Using the new BV 5/1 Bp will increase productivity, and will save time by up to 23 %.

CONTENT

1. Management Summary

- 1.1 Product Solution
- 1.2 Position in Kärcher Range
- 1.3 F-A-B
- 1.4 Target Groups & Areas of Application
- 1.5 Product Data Sheet
- 1.6 Argue Card

2. Product

- 2.1 Features Overview
- 2.2 Operation Overview
- 2.3 Accessory Overview
- 2.4 Battery Technology
- 2.5 Specifications
- 2.6 Accessories
- 2.7 Successor
- 2.8 Sales Features
- 2.9 Applications in the Target Groups

1. MANAGEMENT SUMMARY

1.1 Product Solution

Product Description

- The BV 5/1 Bp is a powerful, compact and lightweight battery operated backpack vacuum cleaner with a large container capacity ideal for cleaning in the target markets BSC, Retail, Hospitality and Transportation. The New generation BV 5/1 Bp includes new battery technology (with similar performance as a mains operated vac), with the added feature of an eco!efficiency mode which prolongs working time and reduced the noise level.

Customer Benefit

- Unrestricted, cordless use: ideal for narrow and difficult to reach areas and also perfect to use where power sockets are sparse
- Best cleaning performance on the market saving effort and time
- Easy operation switch which is located directly on the belt, allowing the user easy access, without any down time (time saving)
- Ergonomic backpack frame designed with comfort for long-periods of cleaning
- eco!efficiency mode: reduces energy consumption, noise levels and increases the running time
- Low operating noise
- Robust and sturdy construction for frequent professional use, compact dimensions for flexible use

1. MANAGEMENT SUMMARY

1.2 Kärcher Old V's Kärcher New



BV 5/1 Bp

Battery running time 35 min (2 batteries)

Vacuum max. 123 mbar 12.3 kPa*

Air flow 35 l/s*

Battery voltage 25.2 V*

Max. power rating 330 W*

Sound pressure level 58 dB(A)*

**battery operated*



BV 5/1 Bp

Battery running time in power mode 24 min /
in eco!efficiency mode 46 min

Vacuum max. 207 mbar 20.7 kPa

Air flow 46 l/s

Battery voltage 36 V







Max. power rating in power mode 730 W / eco!efficiency
mode 400 W

Sound pressure level 57 dB(A)

battery operated only

1. MANAGEMENT SUMMARY

1.3 Features - Advantages - Benefits

	Feature	Advantage	Customer Benefit
	Battery-operated: 36V, 7.5 Ah Li-Ion battery	Unrestricted, cordless use	Time- and effort-saving operation
	Easy operation switch	Ergonomic operation directly on the belt	Controlling all functions without work interruptions (time saving)
	Ergonomic carrying frame	Easy and comfortable working with patented air stream comfort system	High mobility and fatigue free working experience, which protects the user and saves time
	ecoefficiency mode	Energy saving operation and noise level reduction	Longer battery run time and reduced noise levels
	Power rating 650 W	Best cleaning performance on the market. Similar performance to mains operated vacs	Time savings thanks to strong cleaning performance
	Technical Specifications: <ul style="list-style-type: none">• Air flow rate: 46 l/s• Vacuum: 207 mbar• Battery voltage 36 V• Battery operation only	High performance and flexibility	Time saving working thanks to excellent cleaning performance combined with the mobility and convenience of a cordless machine

1. MANAGEMENT SUMMARY

1.4 Target Markets

Target Groups



BSC



Transport



Hospitality



Retail

Areas of Application

- Dry vacuuming on all hard and carpeted areas

Cleaning theatres, cinemas, hotels, stairways, aircrafts, buses, trains and all difficult and narrow areas

1. MANAGEMENT SUMMARY

1.5 Product Data Sheet



Technical Data

*power mode / **eco!efficiency mode

▪ Battery running time:	24 min* / 46 min**
▪ Charging time	60 min
▪ Max. power rating:	730 W* / 400 W**
▪ Vacuum max.:	207 mbar / 20.7 kPa
▪ Air flow rate:	46 l/s
▪ Battery voltage:	36 V
▪ Sound pressure level:	57 dB(A)
▪ Container capacity:	5 l
▪ Weight (with battery):	8.7 kg
▪ Dimensions:	(LxWxH in mm): 400x320x636

Customer Benefits

- Unrestricted, cordless use
- Best cleaning performance on the market: effort and time saving
- Easy operation switch fixed directly to the belt (time saving)
- Ergonomic backpack frame for a long-term comfortable transportation
- eco!efficiency mode
- Low operating noise
- Robust and sturdy construction
- Compact dimensions
- Excellent price-performance

Product Brief

The BV 5/1 Bp is a powerful, compact and lightweight battery operated backpack vacuum cleaner with a large container capacity ideal for cleaning in the target markets BSC, Retail, Hospitality and Transportation. Including new battery technology (with similar performance as a mains operated vac), with the added feature of an eco!efficiency mode which increases the run time and reduced the noise level.

Standard Accessories

Suction Hose 1.5m	(2.889-132.0)
Bend, antistatic	(2.889-148.0)
Combi Nozzle	(2.889-129.0)
Crevice Tool	(2.889-130.0)
Upholstery Nozzle	(2.889-131.0)
Telescopic tube	(2.862-008.0)
Fleece Filter Bag	(6.904-335.0)
Quick charger BC 1/7	(6.654-354.0)
36V Li-Ion battery	(4.654-016.0)

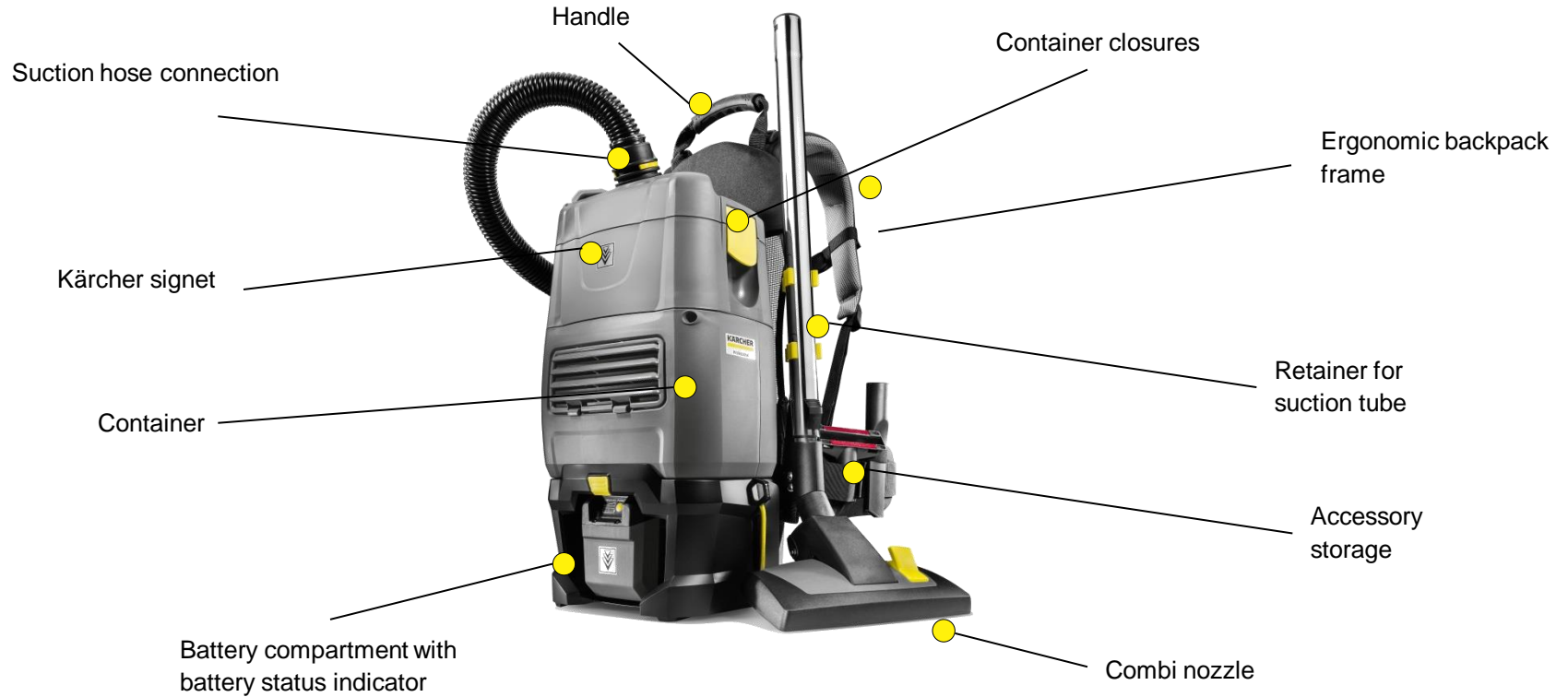


Part Number

BV 5/1 Bp GB	1.394-225.0
--------------	-------------

2. PRODUCT

2.1 Product Overview



2. PRODUCT

2.2 Switch Overview

Easy operation controller



Battery status indication

On/Off switch

Ergonomic hip belt

Button for eco!efficiency mode

2. PRODUCT

2.3 Accessory Overview

New extensive accessories

- **Optimized larger inner diameter** for better air flow: all accessories in **DN 35**
- **New clip system** for easy and secure adaption
- Telescopic metal suction tube
- 2.5 m suction hose with bayonet connector
- Antistatic bend with soft component for better handling
- High quality floor nozzle, crevice nozzle and upholstery nozzle
- Ergonomic design for better handling even for longer working intervals
- Professional appearance



2. PRODUCT

2.4 Battery Technology

New Battery BP 750, Generation II

- Latest Lithium-Ion technology
- 36 V, 7.5 Ah → improved capacity, max. 1000 W (old battery: 2 x 25.2 V, 3.3 Ah)
- 270 Wh (old battery: 81 Wh)
- Single-cell monitoring (monitoring of each individual Li-Ion cell block when charging)
- Battery charge status indication



New Quick Charger BC 1/7

- 290 W (old charger: 90 W)
- Active cooling for heat protection
- Compatible for batteries up to 36 V
- Charging time of 60 minutes



2. PRODUCT










2.5 Specifications

Technical Data	Information
Max. power rating	730 W (power mode), 400 W (eco!efficiency mode)
Vacuum	207 mbar
Container capacity	5 l
Air flow rate	46 l/s
Sound pressure level	57 dB(A)
Weight	8.7 kg
Dimensions	400 X 320 X 636 mm
Battery voltage	36 V, 7.5 Ah
Battery running time	24 min (power mode), 46 min (eco!efficiency mode)

2. PRODUCT

2.6 Accessories

Standard Accessories, included in delivery

Picture	Information	
	Suction Hose 1.5m	2.889-132.0
	Bend, antistatic	2.889-148.0
	Combi Nozzle	2.889-129.0
	Crevice Tool	2.889-130.0
	Upholstery Nozzle	2.889-131.0
	Telescopic suction tube	2.862-008.0
	Fleece Filter Bag	6.904-335.0
	Quick charger BC 1/7 (*EU)	6.654-354.0
	36 V Li-Ion battery BP 750	4.654-016.0

2. PRODUCT

2.8 Sales Features

5 Reasons to use cordless vacs

1. Safety for Users and Others

For most company's when cleaning it's premises is safety first. Dry vacs with trailing cables may pose as a danger in some situations and a risk to other workers or people who cross the working zone. If those passersby do not notice the cord, they could trip and be injured. Cordless vacs eliminate all of these risks!

2. Reduction of service costs

Damaged cables are the number 1 damage pattern of dry vacs. With battery driven vacs saving service costs which reduce the downtime of the vacs. This keeps productivity high and service costs low!

3. Portability for On-the-Go Users

The most obvious advantage of cordless battery vacs is the portability. Mains operated vacs are limited to areas where a power socket is required. A battery vac does not rely on power from a standard electrical outlet. As long as it is regularly charged to its full capacity, it can be taken beyond the range of a regular mains operated vacs.

4. Compactness for Easy Transport

Cordless vacs are sometimes a little more heavy than corded vacs due to the battery. However, they are easier to transport since users do not have a power cable to worry about. Owners of corded vacs have to ensure that the cable is securely stored for transport. They must make sure that the cable does not become tangled or damaged.

5. Efficiency for Rush Jobs

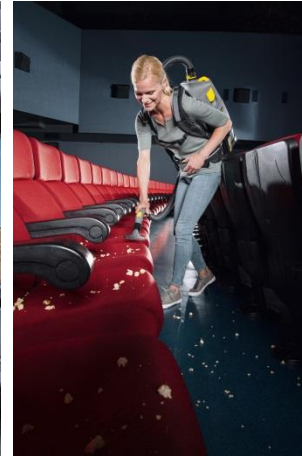
While both mains operated and cordless vacs can be labelled as efficient, cordless vacs save users even more time. Users of a cordless vac do not have to take the time to locate an electrical power socket before operating. All they need to do is ensure it is fully charged and then simply turn it on when they are ready to use it.

2. PRODUCT

2.8 Sales Features

Daytime Cleaning

- In many offices, shopping centres or schools there's a special need for cleaning during the day.
- The BV 5/1 Bp enables **safe cleaning** in hotels, restaurants, boutiques, cinemas and even transportation during business hours. **No risk of trip-and-falls associated with the cable**
- The flexible BV 5/1 Bp is **always ready for use**, no set up time necessary
- Very low operating sound (57 dB(A)) allows for **noiseless working** during business hours



2. PRODUCT

2.8 Sales Features

Excellent Flexibility and Mobility

- “Because the vacuums are worn on the body, workers have **more maneuverability** and greater variety in their range of movements” (National Institute of Occupational Safety and Health)
- Easy operation in areas with **sparse power sockets**, e.g. on stairwells, theatres, hotel corridors etc. and in **hard to reach locations**, e.g. in between chairs or seating rows
- No need to move furniture in order to reach difficult to reach areas
- **No risk of damaging** walls or furniture with a tub vacuum



KÄRCHER

2. PRODUCT

2.8 Sales Features

Improved Health and Safety

- When working near stairs or on the stairwell, backpack vacuums provide better mobility than other types of vacuum cleaners and therefore improve safety and **reduce the risk of falling**
- **No risk of trips-and-falls**
- No bending over to plug the unit in to a socket, resulting in **less body stress**



2. PRODUCT

2.8 Sales Features

Increase in Productivity - Reasons

Battery Operation: Eliminates time consuming activities such as

- Unwinding and winding up the power cable,
- Dragging the cord along during operation,
- Unwinding the cable when hung up or wrapped around furniture or other objects,
- Looking for power sockets
- Frequently having to change the plug socket.



Backpacks are more efficient than regular vacs because they are easier to handle in tight areas such as under desks, around chair legs, in between seating rows and on stairwells. Usually, there is no need to move furniture. The natural walking motion is used, so working with a backpack avoids repetitive motions.

This saves quite a large percentage of labour time and speeds up the cleaning process.

Overall productivity is increased.

2. PRODUCT

2.8 Sales Features

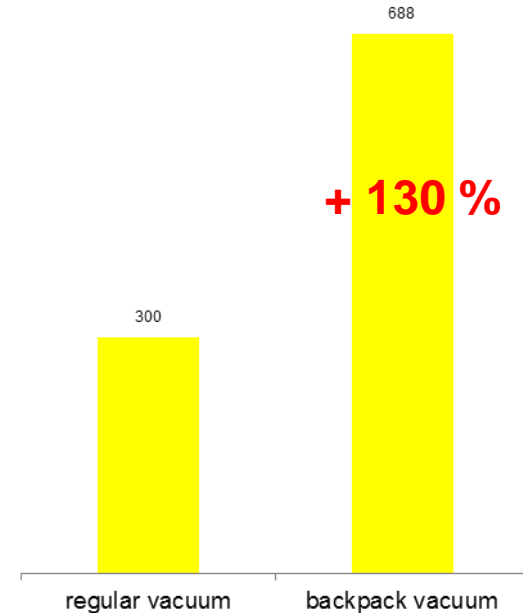
Increase in Productivity – Numbers

Backpack vacuum

- The first **worker productivity study** publishes by ISSA in 1999 compares a backpack vacuum cleaner to a regular vacuum cleaner. The compared machines are a 360-mm, two-motor vacuum cleaner and a 360-mm (floor tool) backpack vacuum cleaner.
- The upright machine was able to clean 300 square meters per hour, whereas the backpack was able to clean 688 square meters per hour.

In the meantime, other studies have been conducted. While the actual numbers may vary, in all studies the backpack machine is the winner. One publications speaks about an increase in productivity of even 70%, and another states that when using a backpack vacuum less than half the energy and effort is needed to clean the same area as with a regular machine. If using a battery powered backpack vacuum, efficiency can be increased even further.

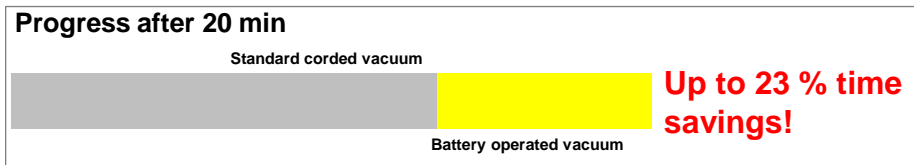
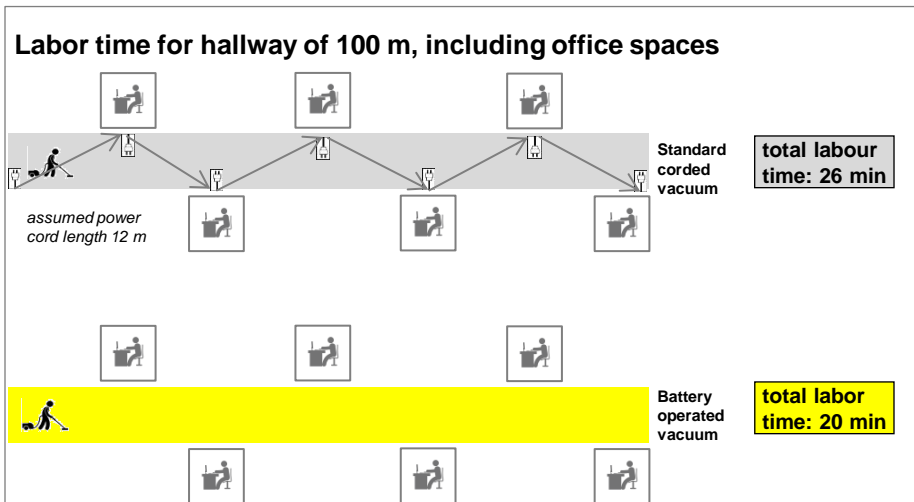
Area covered in square meters / hour



2. PRODUCT

2.8 Sales Features

Increase in Productivity – Numbers Battery Operation



switching of power sockets
6x for hallway of 100m,
including office spaces
→ 6 x 60 seconds = 360
seconds ± 6 minutes

walking back to power sockets, unplugging, winding up cable, walking to next power outlet, unwinding cable, plugging in, etc.
→ whole process takes 60 seconds each

Instead of having to find a power socket to power the vacuum indifferent areas to clean, you can simply keep going with a battery operated machine.

Efficiency is highly increased by using a battery operated vacuum.

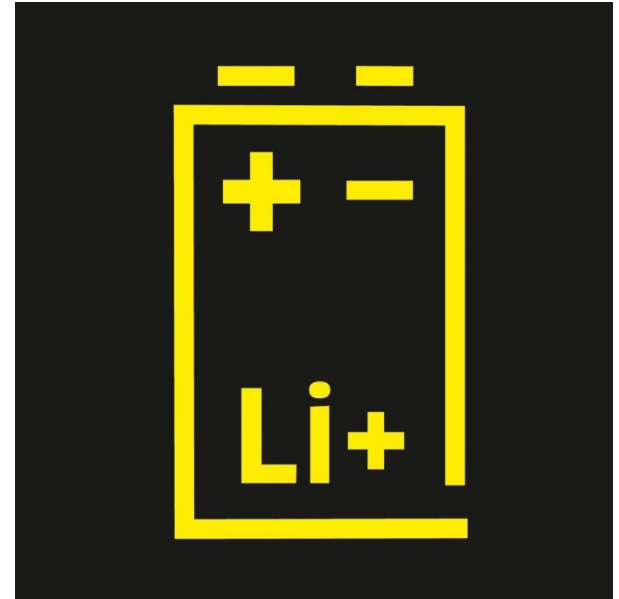
Compared to using a standard corded vacuum, the worker saves 6 minutes of his working time when cleaning a hallway of 100 m length.

2. PRODUCT

2.8 Sales Features

Great efficiency-Lithium-Ion Technology

- **More power and less weight!** A Li-Ion battery contains 40 % more specific energy than common NiCd- or NiMh-batteries.
- Due to the newest Li-Ion technology, the battery is 40 % lighter than usual battery systems.
- **No „Memory-effect“:** the battery can be recharged independently from state of charge, without affecting the cell performance.
- An **integrated deep discharge protection** prevents a complete discharging and avoids damaging the battery.



2. PRODUCT

2.8 Sales Features

New Battery and Quick Charger

- The new powerful Lithium-Ion battery BP 750 with a voltage of 36 V and an electric charge of 7.5 Ah provides an excellent running time of 46 min in eco!efficiency mode and 24 min in power mode.

- With the new quick charger BC 1/7 charging time per battery is 60 minutes until fully charged.



2. PRODUCT

2.8 Sales Features

New extensive accessories

- **Optimized inner diameter** for better air flow: all accessories in **DN 35**
- **New clip system** for easy and secure adaption
- Telescopic metal suction tube
- 1.5 m suction hose with bayonet connection
- Antistatic bend with soft component for better handling
- High quality floor nozzle, crevice nozzle and upholstery nozzle
- Ergonomic design for better handling even for longer working intervals
- Professional appearance



4. FAQ

1. **What is the difference between the old BV 5/1 Bp and the new BV 5/1 Bp and does the new machine replace the old one?**

The old BV 5/1 Bp (model 2006) was a hybrid machine with battery and power cord. The new BV 5/1 Bp is a battery powered only vacuum cleaner. We improved various parameters, such as air flow and the battery capacity, guaranteeing an excellent overall performance that is comparable to the performance of mains operated machines. The new BV 5/1 Bp replaces the old BV 5/1 Bp (model 2006).

2. **Is the accessory of the new T 9/1 Bp compatible with the old T 9/1 Bp?**

With the new accessory we switched to DN 35 instead of DN 32. However, it is possible to use the old accessory in DN 32.

3. **What kind of standard accessories is the BV 5/1 Bp equipped with?**

The standard accessories of the BV 5/1 Bp contain a 1.5m suction hose with antistatic bend, a combi nozzle, crevice tool, upholstery nozzle, a telescopic suction tube, fleece filter bags and the new 36 V Li-Ion battery BP 750 as well as the corresponding new quick charger BC 1/7.

4. **What is the charging time of the battery BP 750 with the new quick charger BC 1/7?**

The charging time until the BP 750 is fully charged is 60 minutes.

5. **Are the old batteries (6.654-183.0) suitable for the new BV 5/1 Bp?**

No, the old batteries are not suitable. The new BV 5/1 Bp works only with the new 36 V batteries (4.654-016.0)

6. **How many batteries do I need for continuous cleaning?**

For working in the standard mode (24 minutes working time): 3 batteries are needed. For working in the eco!efficiency mode (46 minutes working time): 2 batteries are needed. The charging takes 60 minutes.

MAKE A DIFFERENCE
THANK YOU