

KÄRCHER

makes a difference



MORE EFFECTIVE CLEANING FOR INCREASED EFFICIENCY.

Hot water makes the difference.

PROFESSIONAL | HOT WATER HIGH-PRESSURE CLEANERS



EFFICIENT WITH HIGH PRESSURE. EVEN MORE SO WITH HOT WATER.

Kärcher high-pressure cleaners already have impressive advantages over pressureless cleaning procedures when it comes to efficiency, cleaning results and eco-friendliness. HDS hot water high-pressure cleaners further dramatically enhance these advantages when cleaning stubborn dirt. In most cases, Kärcher HDS machines are the superior solution for oils, fats and proteins – in particular, if this dirt has already become encrusted.

PERFORMANCE IS NOT A QUESTION OF CLASS.

Efficiency is not least the result of optimum adjustment of the power to match the tasks at hand. Kärcher hot water high-pressure cleaners are available in different performance classes and versions, which offer the right machine for practically every user and application.



HDS-U upright class high-pressure cleaners

Robust machines with maximum mobility for occasional use in various locations: easy to manoeuvre and transport.

HDS-C compact class high-pressure cleaners

Mobile high-pressure cleaners for frequently changing locations: easy to transport, despite their high performance.



HDS-M middle class high-pressure cleaners

For the daily cleaning of machines or surfaces. The “jogger” design shows that good mobility is also possible in this class.

HDS-S super class high-pressure cleaners

The right solution for tackling recurrent cleaning tasks involving large amounts of dirt and stubborn dirt, for example, during tough continuous use on construction sites, in agriculture, in the municipal sector and in industry.



HDS-E special range high-pressure cleaners

The exhaust-free hot water high-pressure cleaner with electric boiler is used where exhaust gases are undesirable or even prohibited, for example, in food processing facilities, hospitals, commercial kitchens, or industrial companies.



HDS trailer

Our mobile and universal solution for professional use in municipalities, construction and industry. Configurable, highly efficient, reliable and easy to operate. 500 litres of water and 100 litres of fuel on board allow for up to 60 minutes of self-sufficient use, entirely without the need to connect to the power or water mains.

THE ADVANTAGES OF HOT WATER.



Better cleaning result

With hot water, solidified oils and fats dissolve and emulsify considerably better and can therefore be removed easily. Hot water is particularly effective in dissolving proteins and fats in the food industry.



Shorter working time

Hot water causes dirt to be loosened much faster, resulting in significant time savings of up to 35%. Thus, a variety of cleaning tasks can be performed cost-effectively and economically.



Reduced use of cleaning agents

In most cases, fats, oils, resins, etc., can be dissolved with just hot water; therefore, significantly less cleaning agent is required and in some cases, may be waived altogether. This protects the environment and saves money and resources.



Germ-reducing effect

A significant reduction in germs can be demonstrated after cleaning with hot water. This germ reduction achieved without disinfectant is sufficient for many hygiene requirements.



Shorter drying time

Surfaces that are cleaned with hot water dry faster due to the heat and are therefore ready for further processing more quickly.

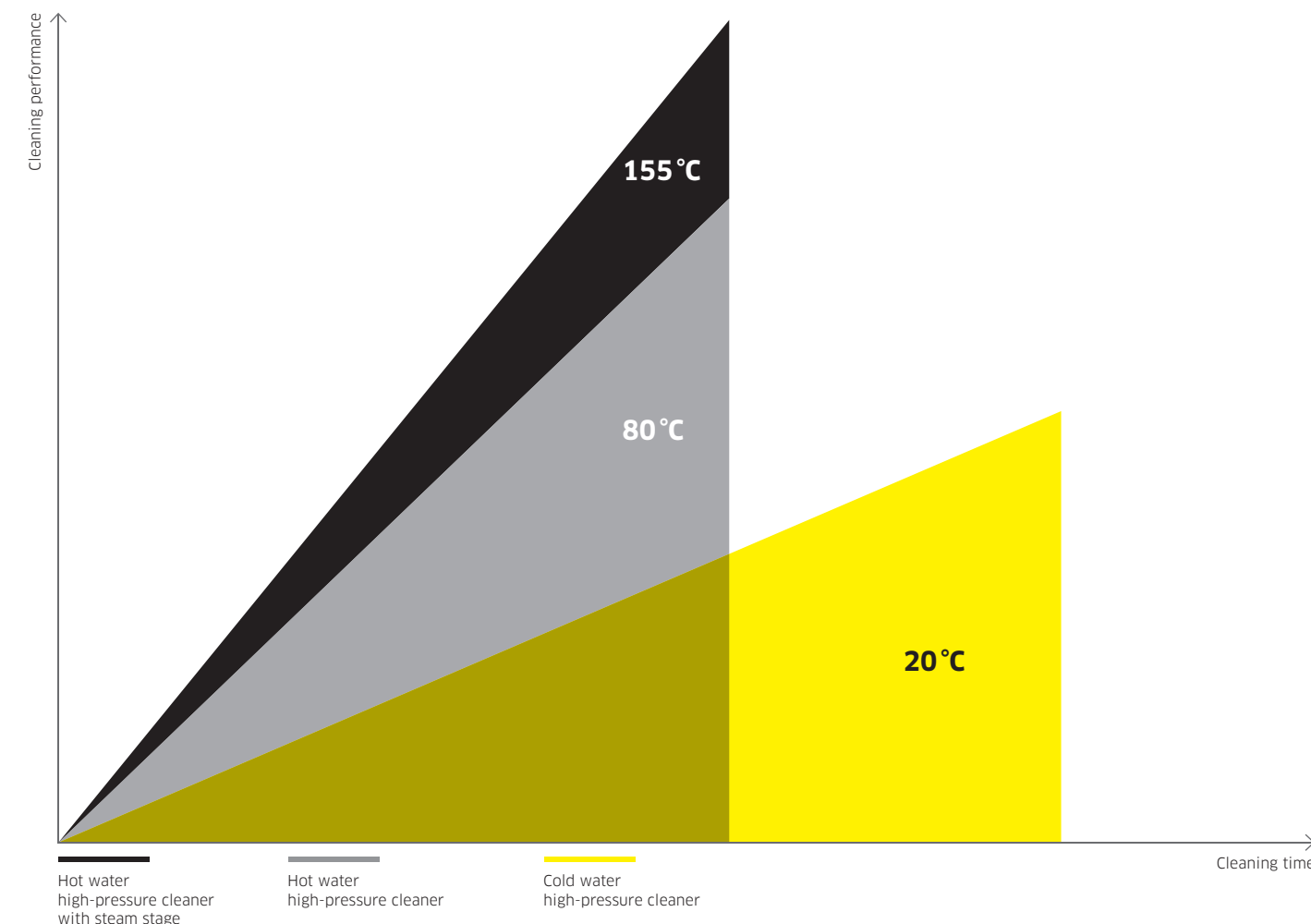


Protection of surfaces

Protection of sensitive surfaces and the same cleaning effect at a lower working pressure.

Heat energy is a major factor for cleaning. The supply of heat accelerates chemical processes; each increase in temperature of 10°C doubles the reaction speed. An increase in temperature of 20°C therefore produces a fourfold increase in the reaction speed. Oils, fats or soot dissolve due to the impact of the heat and can then be removed more easily. The emulsion of oils and fats in water is accelerated. Finally, a heated surface dries more quickly. In practice, this means that higher water

temperatures can reduce the cleaning time by up to 35 per cent – with considerably better results. By reducing the water volume, a steam temperature of max. 155°C can be achieved. Thanks to the combination of steam and pressure, even the most stubborn dirt can be removed. This guarantees a high cleaning performance even when no chemical additives are used. The steam stage is extremely well-suited to removing bituminous coatings, paint in general, soot deposits, lichen and algae.



OUR PERFORMANCE PROMISE

Brass cylinder head All Kärcher Professional high-pressure cleaners are fitted with a brass cylinder head as standard. Designed for strong performance and very long runtimes.

Pistons The piston material is specifically adapted to meet the requirements of the machines. In the lower pressure range, stainless steel pistons guarantee optimal gliding characteristics and low wear. In higher pressure ranges, ceramic pistons guarantee the required robustness.

Perfect interplay For each machine, Kärcher designs the perfect combination of high-pressure pump and electric motor. The resulting optimally designed operating point guarantees a long service life and maximum efficiency.

Burner technology Thanks to a highly efficient burner and turbo blower, emissions can be lowered and fuel consumption reduced.

Cleaning agents Our pumps are designed even for the use of strong cleaning agents. This means that we can guarantee the best cleaning result for every application.

Reduced volume The optimal fine tuning of motor and pump ensures low friction and, as a result, reduced noise development.



WEED REMOVAL



Hot water high-pressure cleaners can increase the water inlet temperature from approx. 12°C to up to 155°C. This allows for a reduction in the working pressure, the time required and the volume of cleaning agent that is used.

Cleaning with hot water therefore offers various possibilities for optimising the cleaning process using the advantages of HDS:

- More effective breaking up of lubricant residues
- Shorter cleaning times and labour cost savings
- Germ-reducing effect
- Shorter drying time
- Significantly reduced use of cleaning agents
- Protection of sensitive surfaces and the same cleaning effect at a lower working pressure

SUSTAINABLE WEED REMOVAL USING KÄRCHER HDS.

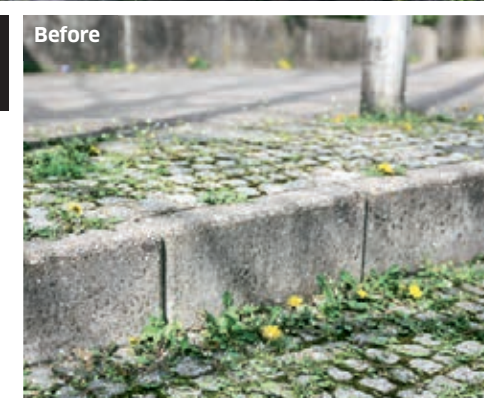


The Kärcher weed removers and hot water high-pressure cleaners mean that you can get rid of unwanted growth without the need for herbicides. Just hot water. And therefore without harming the environment and surfaces.

Hot water achieves optimum penetration right down to the roots of the plant. The abrupt temperature increase denatures the plant protein, whereby the weed is permanently damaged and killed off. The water temperature is decisive here: just below the steam limit is ideal. Kärcher HDS machines provide hot water at consistently high temperatures of up to 98°C – ideal for weed removal with hot water.



Before



After

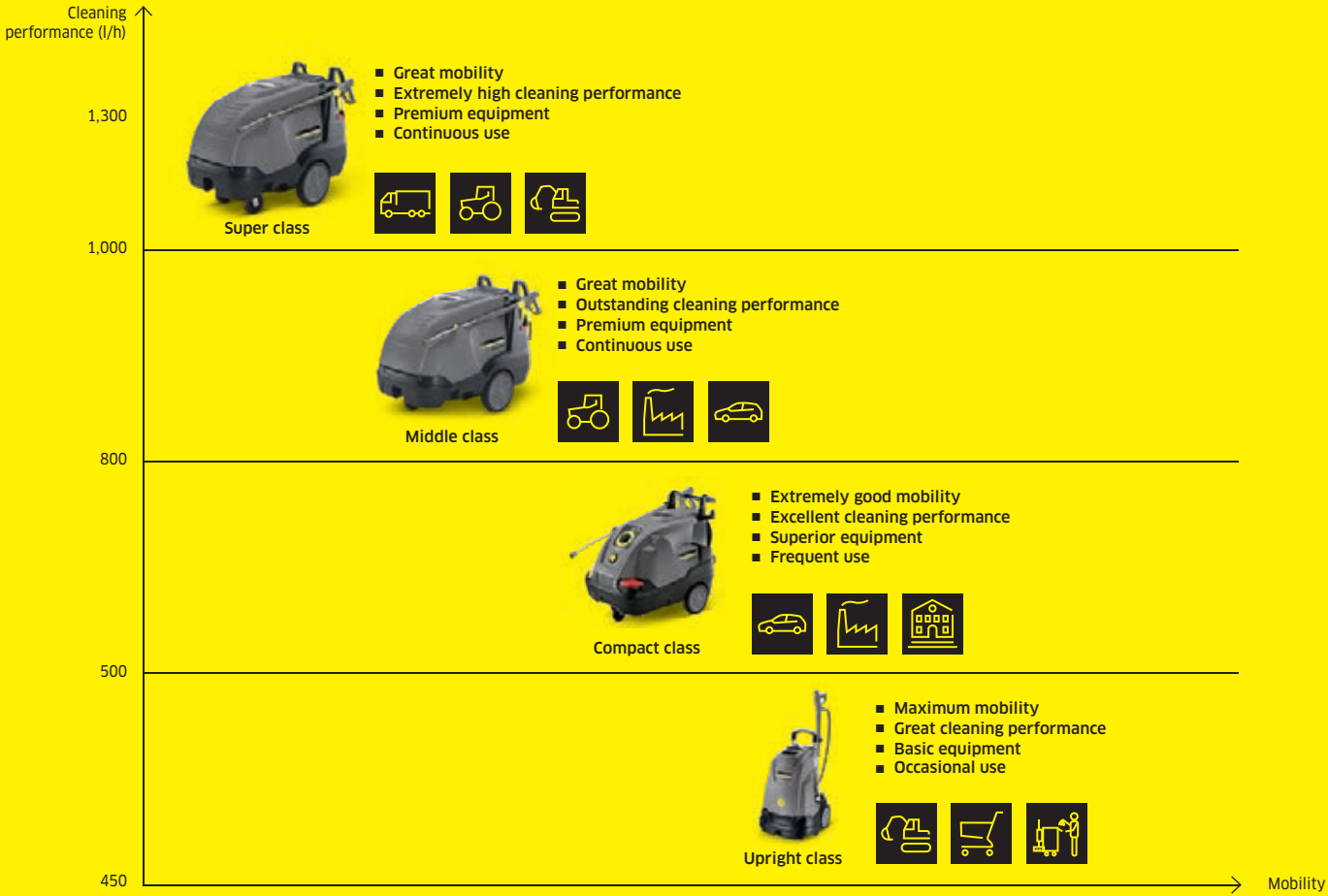
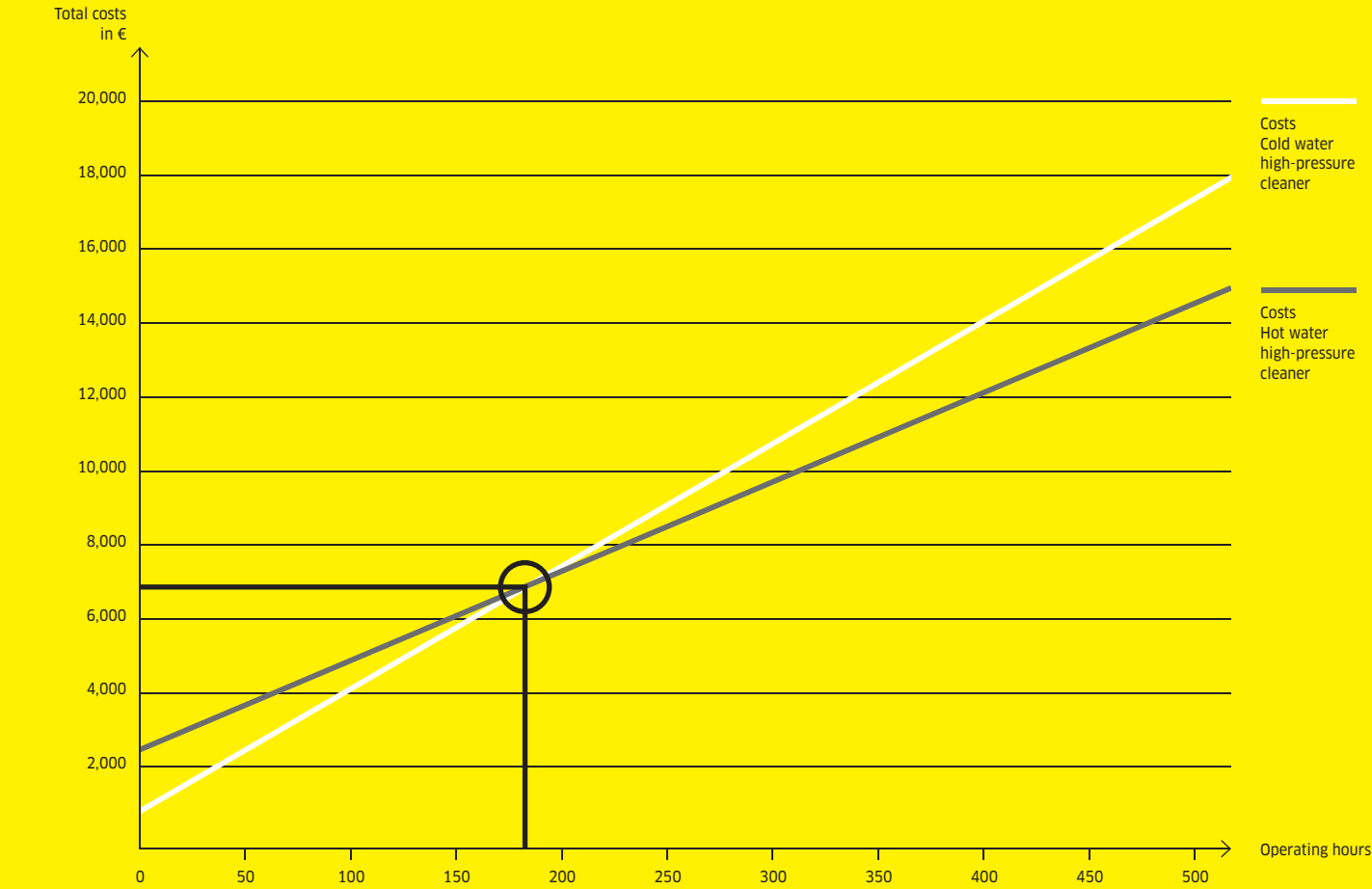


A CLEAR RESULT: HD AND HDS COST COMPARISON.

Due to the additional burner and the associated energy consumption, the procurement and maintenance costs for a hot water high-pressure cleaner, when compared with a cold water machine, are initially slightly higher. However, by using hot water, you can make significant time savings of up to 35 per cent and achieve improved cleaning results. In addition, the costs for cleaning agents are almost completely eliminated with the HDS.

The decisive factor is the labour costs, which are far higher than the procurement and maintenance costs over the entire life time of a high-pressure cleaner. For this reason, using an HDS machine is often the more economical solution.

For example, a hot water machine with a water volume of 700 l/h is already more economical after around 180 operating hours when compared with a cold water machine with a similar performance. This is thanks to the fact that it achieves time savings of 25 per cent (see graphic).



GET EVEN MORE OUT OF IT: ACCESSORIES FOR THE HDS.

Superior power is important but it must be implemented according to use for special applications. To do this, the Kärcher system includes optimised accessories, which reliably expand the range of applications and the performance potential of hot water high-pressure cleaners.



iSolar Wherever solar and photovoltaic systems are operated, iSolar guarantees the yield. In particular at locations that are exposed to stubborn dirt, iSolar is an economic decision for system operators and cleaning service providers.

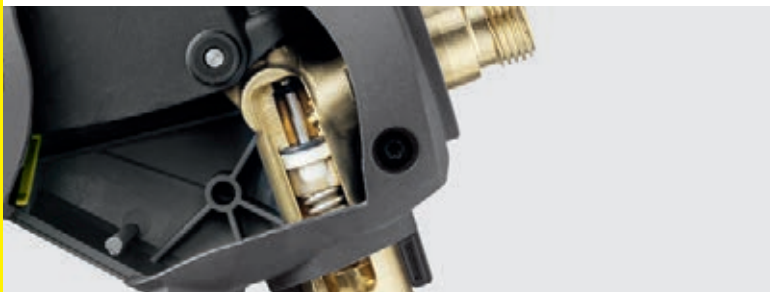
Weed removers for eliminating weeds With the Kärcher weed removers and a hot water high-pressure cleaner, you can get rid of unwanted growth without the need for herbicides. Simply with hot water up to 98°C and therefore without harming the environment, surfaces and your wallet. The hot water destroys the weeds by quickly penetrating down to the roots, killing the plant proteins, causing lasting damage and wiping out the weeds.



Special accessories for pipe cleaning Clean dirty or blocked drains and pipes in no time. The nozzle openings, which point to the rear, automatically pull the hose into the pipe. Even stubborn deposits of dirt are reliably loosened and washed out of the pipe with the flow of water. Our particularly powerful pipe cleaning dirt blasters use their forward-facing rotating point jet to reliably work through the most stubborn blockages.

FR 30 Me surface cleaner The FR 30 Me converts the superior power of our hot water high-pressure cleaners into high area performance. Stainless steel housing, interchangeable brush crowns and non-marking rollers. Time-saving, economical and environmentally friendly.

EASY!Force



The revolutionary operating concept of the new EASY!Force high-pressure gun uses the recoil force of the high-pressure jet to reduce the holding force for the trigger to zero. This means that you can work effortlessly and, overall, much more

ergonomically and relaxed. With the EASY!Lock quick lock, you can quickly add or remove accessories from your high-pressure cleaner, in an instant - turn it 360° once, five times quicker than conventional screw connections.

**YOU MANAGE
YOUR SUCCESS.
WE GIVE YOU
THE SUPPORT.**

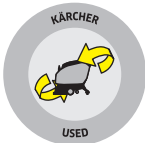
Almost everything can be so much easier when talents are combined. Because it is more successful to pursue objectives together, complement each other and learn from each other. You could call it the principle of progress. We call it Kärcher Services. A promise of partnership. By professionals for professionals.



Kärcher Services:
The complete service package from the global leader. And the perfect continuation of the progressive Kärcher system with innovative tools, customised service offers and high-performance software solutions.



Kärcher Lease – Leasing
Customised. Flexible. Safe. We give you the flexibility you need: with leasing and financing models for every requirement.



Kärcher Used – Used machines
When used or second-hand is what you need. Starting up? Or simply want to save costs? We have the right used machine for you. Used, generally reconditioned, good and affordable. Offers are constantly changing. Ask us.



Kärcher Service – Customer Service
Service means trust. At all times. Services you actually need. Fast response for maximum availability. Maximum value retention and compliance with all statutory requirements.



Kärcher Rent – Renting
Just the machine you need. Rent instead of buying. And get more: expertise and Kärcher Full Service in one package.



Kärcher Maintain – Service packages
Every service package is tailored precisely to a defined requirement. The range of services includes inspections as part of prescribed safety tests, timely maintenance and flat-rate full service.

Please contact us for more information:

Head Office Germany

Alfred Kärcher GmbH & Co. KG
Alfred-Kärcher-Straße 28-40
71364 Winnenden

Phone +49 7195-14-0
Fax +49 7195-14-2212

www.kaercher.com

North America

Kärcher North America
4555 Airport Way
Denver, CO 80239
USA

Phone +1 303-738-5805
Fax +1 303-865-2758

www.karcherna.com

United Kingdom

Kärcher (UK) Ltd
Kärcher House
Brookhill Way
Banbury
Oxon OX16 3ED

Phone +44 1295-752-000
Fax +44 1295-752-103

www.karcher.co.uk

Ireland

Kärcher Ltd
Unit 4
E.P. Mooney Business Park
Walkinstown Avenue
Dublin 12

Phone +353 1-409-7777
Fax +353 1-409-7775

www.karcher.ie

South East Asia

Regional Head Office
South East Asia

Karcher South East Asia Pte Ltd
3 Depot Close #05-01
Singapore 109840

Phone +65 6897-1811
Fax +65 6897-1611

www.karcher.com.sg

Hong Kong

Kärcher Limited
Unit 05, 13/F, Nanyang Plaza
57 Hung To Road
Kwun Tong, Kowloon

Phone +852 2-357-5863
Fax +852 2-357-5632

www.karcher.com.hk

Australia

Karcher Pty Ltd
40 Koornang Road
Scoresby VIC 3179
Melbourne, Victoria

Phone +61 3-9765-2300
Fax +61 3-9765-2398

www.karcher.com.au

New Zealand

Karcher Ltd
66 Allens Road
East Tamaki
Auckland 2013

Phone +64 9-274-4603
Fax +64 9-274-6932

www.karcher.co.nz

South Africa

Kärcher (Pty) Ltd
Cnr Mount Joy & George Allen Rd
Wilbart Ext. 2
PO Box 11818
Vorna Valley, 1686

Phone +27 11-657-7300
Fax +27 11-657-7440

www.karcher.co.za

Dubai

Karcher FZE
Quality Cleaning Systems
Jebel Ali Free Zone
Plot No. S-10104 South Zone
RA 08, XB 1, Jebel Ali

Phone +971 4-886-1177
Fax +971 4-886-1575

www.kaercher.com