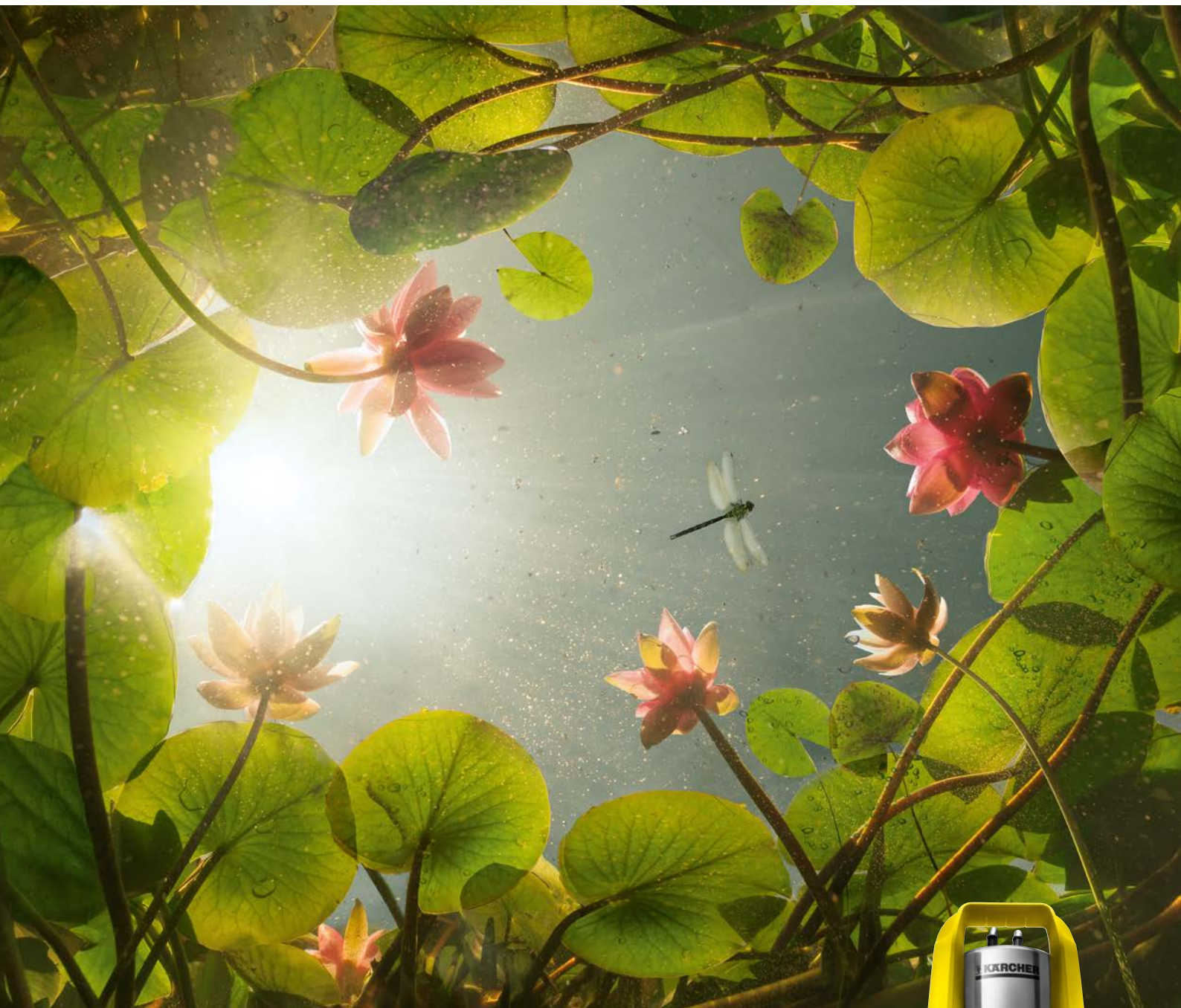


KÄRCHER

makes a difference



FOR THE LOVE OF GARDENING

Pumps and watering systems by Kärcher



HOME & GARDEN | PUMPS AND WATERING SYSTEMS

WATER IS OUR ELEMENT.

As one of the leading global manufacturers of high-pressure units, Kärcher is constantly setting new standards in the areas of technology and innovation. Kärcher's powerful and intelligent watering systems ensure accurate and resource-conserving water distribution and combine the usual high Kärcher quality standards with maximum comfort and a sophisticated design.

PAMPER YOUR GARDEN.

Kärcher's extensive range of watering equipment will bring a smile to the faces of garden lovers everywhere. Pumps and watering products designed to work in perfect unison allow you to work responsibly with your natural resources. This ensures that precious water is used in the most effective and economical way. Innovative technology and precise sensors ensure that your plants are provided with exactly the volume of water that they require to grow. To ensure that you can take maximum pleasure from the natural beauty of your garden, Kärcher provides maximum-efficiency nozzles, spray guns, sprinklers, hoses, water timers, pumps, hose connection systems and storage systems. Whether you want to water the garden, pump clean or dirty water or provide processed water for domestic use – Kärcher has the right pump for every job. No matter which Kärcher product you use, you know you have made the right choice.

Kärcher makes a difference.







Top quality and sustainable

From the Home & Garden pump to the Premium nozzle – Kärcher watering products are characterised by top quality, trailblazing design and optimum resource-conserving water use. Our new nozzles are the latest example of this: thanks to innovative membrane technology, they are completely drip-proof. What's more, Kärcher watering systems are fully compatible with watering systems by all well-known manufacturers.



Sophisticated technology

Kärcher water timers start and stop watering fully automatically. This saves you the chore of watering by hand and leaves you more time to look after the garden or do other free-time activities. A further advantage is that they use precisely the volume of water that is actually required. The sensor detects the moisture in the ground and only starts the watering when the moisture level falls below the preset value. This makes them both economical and environmentally friendly.



Efficient and durable pumps

With Kärcher Home & Garden pumps, you can use alternative water sources both for resource-conserving watering and for service water supply in the household. By utilising multi-stage hydraulics, the pumps enable you to reduce energy consumption by 30% compared with conventional jet pumps. Our range of submersible pumps is equally impressive: Whether you want to pump dirty water or remove water altogether, we have the perfect pump for any requirement.



Environmental good sense

Kärcher's intelligent and efficient technology, as well as products designed to work in perfect unison, allow you to work responsibly with natural resources. The new Kärcher Rain System® gears itself precisely towards the needs of your plants and blends in with hedges, bushes, vegetable patches and flower beds. Water is supplied only to the exact areas that require it, making it both environmentally friendly and easy on your budget.

Watering systems



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Booster pumps



42 Garden pumps



44 Home & Garden pumps



46 Barrel pump



47 Deep well pumps



47 Cistern pump

Submersible pumps



50 Submersible dirty water pumps



51 Submersible flat suction pumps



Watering systems



Kärcher Rain System®
Find out more on
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**SensoTimer ST 6
Duo ecologic**
Order no.
2.645-214.0



**Metal spray gun
Premium**
Order no.
2.645-270.0



Premium spray lance
Order no.
2.645-137.0



Garden shower
Order no.
2.645-181.0

Watering systems



**Premium
CR 7.220 automatic hose reel**
Order no. 2.645-218.0



**Compact
CR 3.110 balcony hose reel**
Order no. 2.645-210.0

Booster pumps



**BP 4
Garden Set**
Order no. 1.645-352.0



**BP 7 Home & Garden
ecologic**
Order no. 1.645-356.0



6
Universal hose connector Plus
Order no. 2.645-193.0
With Aqua Stop:
Order no. 2.645-194.0



8
Oscillating sprinkler OS 5.320 SV
Order no. 2.645-135.0



9
Hose trolley HT 4.520 Kit
Order no. 2.645-168.0



10
Premium hose reel HR 7.315 Kit
Order no. 2.645-164.0



11
PrimoFlex® Premium hose
Order no. 2.645-152.0



16
BP 1 Barrel
Order no. 1.645-460.0



17
BP 6 Deep Well
Order no. 1.645-422.0



18
BP 2 Cistern
Order no. 1.645-420.0



19
SP 7 Dirt Inox
Order no. 1.645-506.0



20
SP 6 Flat Inox
Order no. 1.645-505.0

Submersible pumps

SYSTEMATIC RAIN: THE NEW, INTELLIGENT WATERING METHOD.

Hedges, flower beds, bushes or herbs – the new, intelligent watering system from Kärcher uses targeted, humidity-controlled distribution to supply each plant individually with precisely the volume of water it needs. Working together, the ecologic pump, the new “SensoTimer” control, the safe-to-operate, phthalate-free garden hoses and the Kärcher Rain System® provide an outstandingly efficient watering system that

has been developed with the maximum level of resource conservation in mind. This is particularly clear to see from the material used, the considerable power and water saving capabilities, and its ability to connect alternative water sources. The system can be extended at any time and can be adapted to suit almost all types of garden.





eco!ogic

Kärcher sees itself as a company that leads by example. Sustainability and environmental protection are firmly rooted in our company philosophy and actions, and are embodied in the company initiative “eco!ogic”. By extending the eco!ogic range to include garden products, Kärcher has demonstrated its sense of ecological responsibility even in its latest products. This

is especially evident in the removal of power consumption in stand-by mode and the addition of the maximum-efficiency watering control system.





Targeted distribution

The new Kärcher Rain System® gears itself precisely towards the needs of your plants and blends in perfectly with hedges, bushes, vegetable patches and flower beds. Water is supplied only to the exact areas that require it, making it both environmentally friendly and easy on your budget. The consistent pressure distribution allows water to be distributed evenly, even at a distance of 50 metres. You can adjust the water volume to suit your requirements.



Save water

The new SensoTimer water timer with radio-based moisture sensors represents intelligent and efficient watering technology. The moisture level of the soil is transmitted every 30 minutes and the watering system only starts if it is actually required. To avoid duplicated watering, the sensor measures the level of moisture near ground level. Thanks to the ecologic function, watering can be delayed if required, allowing you to save more water.



Save electricity

Kärcher's durable and easy-to-operate high-quality pumps are ideal for alternative water sources. The pumps switch on and off automatically as required. Multistage pumps provide increased power and efficiency and lower noise levels. They provide the same flow rate as conventional jet pumps but consume 30% less energy. The eco!ogic models with a 0-watt stand-by function are even more energy efficient.



Responsible choice of materials

Kärcher places a huge emphasis on the careful selection of materials and avoids substances such as phthalate and heavy metals that are detrimental to the environment and to health. Additional benefits: The hoses, which have been optimised in terms of functionality and handling, are robust, flexible and resistant to kinks.



MADE-TO-MEASURE WATERING SOLUTIONS!

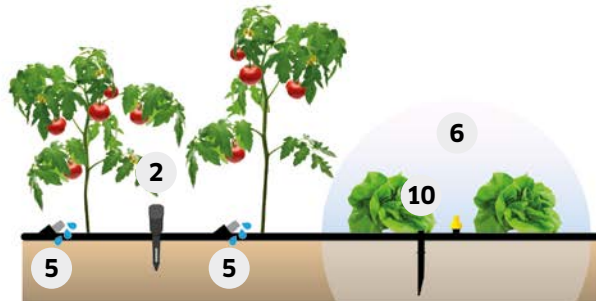
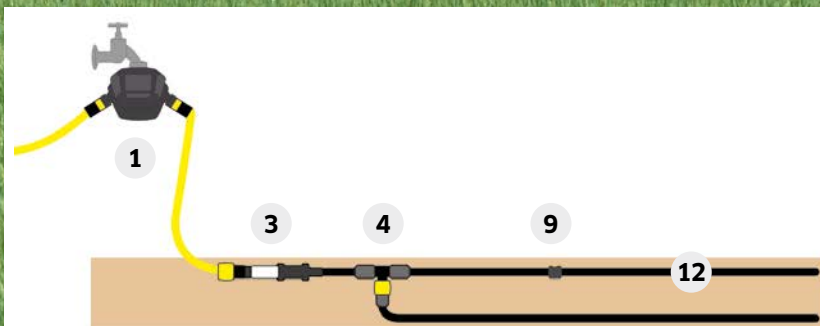
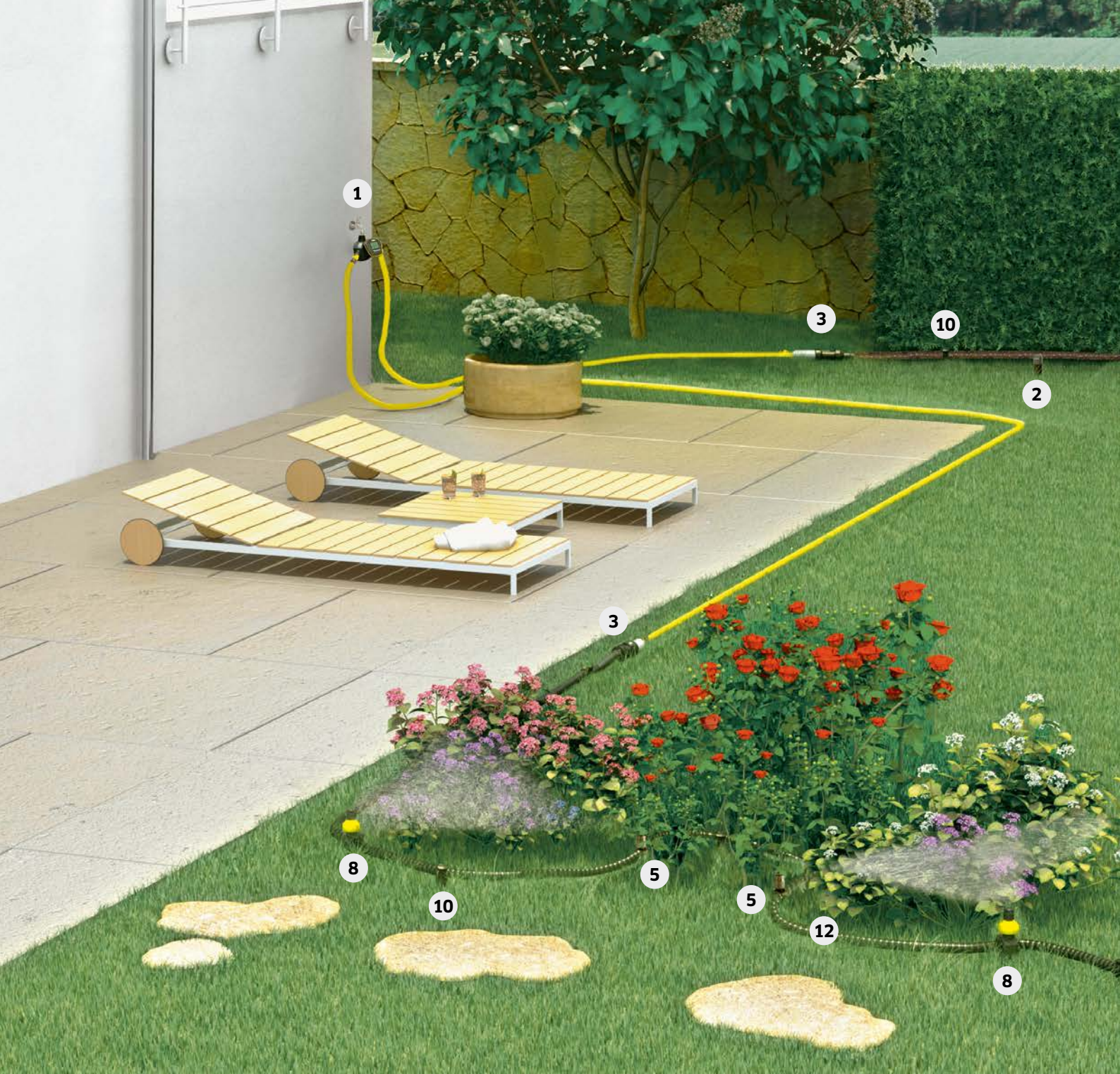
Watering with Kärcher is intelligent watering. This is because Kärcher has the right solution for every job, such as universal hose connectors for fast, tailor-made and stable connections. Or oscillating sprinklers with splash guard, volume regulation and nozzle deactivation. A further example is our new, easy-to-operate watering system that supplies valuable water directly to the plants that need it, without losing a drop. A sensor controlled water timer measures the soil moisture level and uses radio sensors to communicate to the base unit at the tap. If the ground becomes too dry, it is watered at the next scheduled time. It doesn't get more intelligent and efficient than this!

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Garden showers and spray lances	Page 19	Sprinklers	Page 27
Nozzles and sprinklers	Page 20	Hoses and hose storage	Page 28
Hose connection systems	Page 24	Automatic watering	Page 34



KÄRCHER

ENVIRONMENTAL FRIENDLY
EcoLine 4.0G 14.5m 14.5m 14.5m 14.5m



**SensoTimer
ST 6 Duo ecologic**
Order no. 2.645-214.0



**Pressure reducer
with filter**
Order no. 2.645-226.0



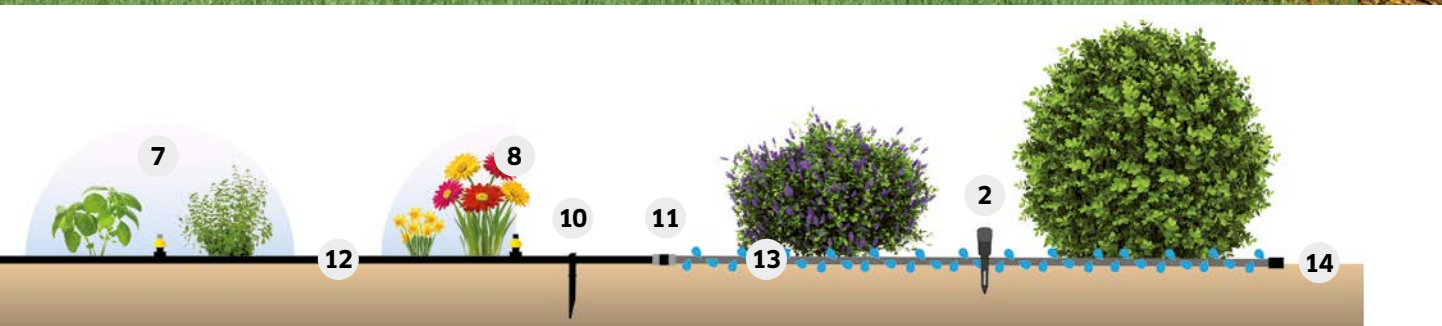
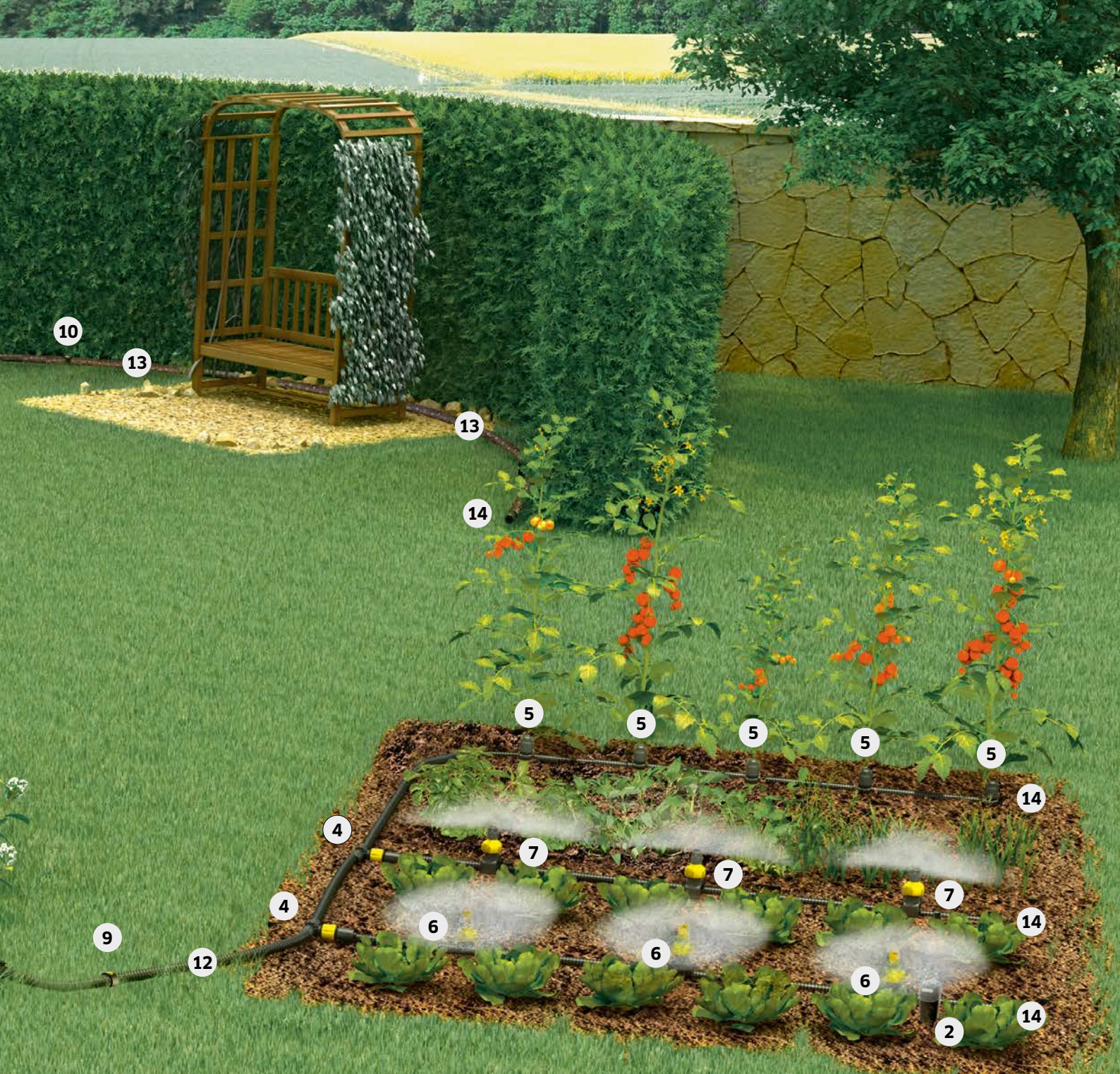
**T-connector with
water flow regulation**
Order no. 2.645-231.0



Drip nozzle
Order no.
2.645-234.0



Micro spray nozzles
360°, 180°, 90°
Order no. 2.645-236.0



9



Sealing collar
Order no.
2.645-235.0

10



Hose spike
Order no.
2.645-237.0

11



I-connector
Order no.
2.645-232.0

12



Kärcher Rain System® hose
Order no. 2.645-227.0

13



Trickle hose
Order no. 2.645-229.0 (10 m)
Order no. 2.645-228.0 (25 m)

14



Hose stop
Order no.
2.645-233.0

RAIN ON TAP!

EFFICIENT & PRECISE WATERING

SAVE WATER

The new Kärcher Rain System® combines the benefits of micro-dripping and conventional watering. The system operates at pressures up to 4 bar and includes a 1/2" PVC hose with drip and micro spray nozzles. A pressure reducer and filter for protection against excess pressure and dirt particles can also be installed. The Kärcher Rain System® can be adapted to any garden.



Particle filter

- To protect the Kärcher Rain System® from small dirt particles
- The filter inlay can be removed and cleaned
- Ergonomic design for comfortable handling
- Includes the G3/4 tap adaptor and an adaptor for Kärcher Rain System® hoses



Pressure reducer with filter

- To protect the Kärcher Rain System® from small dirt particles
- The filter inlay can be removed and cleaned
- Reduced input pressure with 4 bar output pressure
- Includes filter
- Includes the G3/4 tap adaptor and an adaptor for Kärcher Rain System® hoses



T-connector with water flow regulation

- For connecting three Kärcher Rain System® hoses and the trickle hose
- Side outlet with regulated flow
- Allows you to establish two independent hose lines
- Ergonomic design for comfortable handling
- Includes two pieces



I-connector

- For connecting two Kärcher Rain System® hoses and the trickle hose
- Ergonomic design for comfortable handling
- Includes two pieces



Hose stop

- For stopping the Kärcher Rain System® hose
- For stopping the trickle hose
- Ergonomic design for comfortable handling
- Includes two pieces

Kärcher Rain System®

Order no. (PU)¹⁾	2.645-225.0 (6 pc.)	2.645-226.0 (6 pc.)	2.645-231.0 (10 pc.)	2.645-232.0 (20 pc.)	2.645-233.0 (10 pc.)
Price in €*					



Drip nozzle

- To be fitted onto the Kärcher Rain System® hose
- Easy to install thanks to its collar with an integrated needle
- Water volumes can be individually adjusted
- Drip volume can be adjusted from 0-10 l/h
- Includes five pieces



Micro spray nozzles

- To be fitted onto the Kärcher Rain System® hose
- Easy to install thanks to its collar with an integrated needle
- Water volume can be adjusted individually on the nozzle head (from 0-55 l/h)
- Adjustable nozzles
- Includes 1 x 360°, 2 x 180° and 2 x 90°



Sealing collar

- To be fitted onto the Kärcher Rain System® hose
- For closing unwanted nozzle holes
- Simple to fit thanks to the collar
- With an interior rubber sealing surface
- Includes five pieces



Hose spike

- For fixing the Kärcher Rain System® hoses and the trickle hoses in the bed
- With marker aids to ensure optimal depth
- Includes five pieces

Kärcher Rain System®

Spray radius with 2 bar	1.3 m			
Spray radius with 4 bar	1.8 m			
Order no. (PU)¹⁾	2.645-234.0 (10 pc.)	2.645-236.0 (10 pc.)	2.645-235.0 (10 pc.)	2.645-237.0 (16 pc.)
Price in €*				

¹⁾ PU = packaging unit. All specifications relating to the watering area are based on a system pressure of 4 bar. * Non-binding price recommendation including VAT. G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



Flexible layout

Thanks to the connection pieces, the Kärcher Rain System® hose and trickle hose can be used in any combination.



Efficient drip irrigation

Reliable watering for all of your plants. Suitable for plantings up to 50 m in length.



Targeted watering

Drip nozzle with volume regulation for targeted watering directly onto the plants.



Area watering

Micro spray nozzles with three different spraying patterns (360°, 180° and 90°) and adjustable water volumes.



Kärcher Rain System® hose

- Supply hose for the Kärcher Rain System®
- Drip and micro spray nozzles and sealing collars can be fitted to it easily.
- Can be combined with the connection pieces for optimum results
- Weather-resistant anti-UV outer layer
- Free from cadmium, barium and lead
- Can be shortened as required and combined with the trickle hose



Trickle hose

- Efficient watering for all your plants
- Even distribution across the entire length
- Can be shortened as required and combined with the Kärcher Rain System®
- Extendible to a maximum of 50 m
- Optimum operation with 2 bar pressure
- 2-layer hose with core and textile coating
- Safe-to-operate and phthalate-free high-quality hose
- Free from cadmium, barium and lead

Kärcher Rain System®

Inner diameter	1/2"	1/2"	1/2"
Length	10 m	10 m	25 m
Order no. (PU) ¹⁾	2.645-227.0 (1 pc.)	2.645-229.0 (10 pc.)	2.645-228.0 (10 pc.)
Price in €*			



Micro sprayer set

- Extension kit for the Kärcher Rain Box
- Attachment to Kärcher Rain System® hose
- For the individual watering of different plant groups
- Includes 5 drip nozzles
- Includes 10 sealing collars
- Includes 10 micro spray nozzles (4 × 90°, 4 × 180°, 2 × 360°)
- Includes 5 hose spikes



Hose connection set

- Extension kit for the Kärcher Rain Box
- For connecting additional Kärcher Rain System® hoses or trickle hoses
- Includes 4 T-connectors with regulation
- Includes 4 I-connectors
- Includes 5 hose stops



Trickle hose set

- Ideal kit for targeted watering of all of your hedges and plants
- Ready-to-use set
- Includes 20 m trickle hose
- Includes particle filter and hose stop



Kärcher Rain System®

Order no. (PU) ¹⁾	2.645-239.0 (9 pc.)	2.645-240.0 (7 pc.)	2.645-241.0 (10 pc.)
Price in €*			

¹⁾ PU = packaging unit. All specifications relating to the watering area are based on a system pressure of 4 bar. * Non-binding price recommendation including VAT. G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

Kärcher Rain System® Sets – FOR TAILOR-MADE WATERING



The Kärcher Rain System® can be adapted to suit any garden and works perfectly together with the SensoTimer to provide a watering control system based on the requirements of the garden. The system is available in a variety of ready-to-use sets: from the beginner to deluxe set – practical carrying case included. The various micro spray and drip nozzles, together with the trickle hose, ensure optimal, targeted garden watering – suitable for gardens of any size with any plants.



Deluxe irrigation set



Premium irrigation set

- The ideal set for garden lovers – for targeted, moisture-controlled watering
 - The system can be adapted to suit any garden layout
 - Set includes watering variants for hedges, bushes, flower beds and vegetable patches
 - Includes practical plastic carrying case
-
- Set contains SensoTimer ST 6 Duo ecologic including 2 moisture sensors
 - Includes 10 m trickle hose and 1 × 15 m and 2 × 10 m Kärcher Rain System® hoses (both as a supply hose and for the sprayers)
 - Set includes: 4 T-connectors with water flow rate regulation, 4 I-connectors, 10 drip nozzles, 15 micro spray nozzles (3 × 360°, 6 × 180° and 6 × 90°), 10 sealing collars for resealing holes, 15 hose spikes for fixing the hoses, 5 hose stops, 1 filter and 2 connectors
 - 1 G1 tap adaptor with G3/4 reducer
-
- Set includes SensoTimer ST 6 ecologic with 1 moisture sensor
 - Includes 10 m trickle hose and 15 m Kärcher Rain System® hose (both as a supply hose and for the sprayers)
 - Set includes: 4 T-connectors with water flow rate regulation, 4 I-connectors, 15 drip nozzles, 10 micro spray nozzles (2 × 360°, 4 × 180° and 4 × 90°), 10 sealing collars for resealing holes, 10 hose spikes for fixing the hoses, 5 hose stops, 1 filter and 2 connectors
 - 1 G1 tap adaptor with G3/4 reducer

Kärcher Rain System®

Order no. (PU)¹⁾	2.645-246.0 (1 pc.)	2.645-245.0 (1 pc.)
Price in €*		



Kärcher Rain Box



Kärcher Rain System® pot watering set

- Ideal starter set for efficient watering
 - The system can be adapted individually to suit any garden layout
 - Set includes watering variants for hedges, bushes, flower beds and vegetable patches
 - Includes practical plastic carrying case
 - Includes 10 m Perl hose and 15 m Kärcher Rain System® hose (both as a supply hose and for the sprayers)
 - Set includes: 4 T-connectors with water flow rate regulation, 4 I-connectors, 10 drip nozzles, 5 hose spikes for fixing the hoses, 5 hose stops, 1 filter and 2 connectors
 - 1 G1 tap adaptor with G3/4 reducer
 - Optional accessories: SensoTimer ecologic for watering only where required
-
- Starter set for need-based watering of up to 15 plants on balconies or terraces
 - Ideal for pots and window boxes
 - Easy installation without tools
 - Includes 10 m flexible, phthalate-free 1/2" hose, G3/4 brass tap adaptor with G1/2 reducer and hose connector for connection to the tap
 - Includes 10 m narrow, phthalate-free 4 mm hose for connection to the pots
 - Includes 15 droppers, water volume can be adjusted from 0-10 l/h
 - Includes 15 hose spikes to be fitted directly to the dropper or for fixing the 4 mm hose.
 - Includes 10 T-connectors for connecting the 4 mm hoses
 - Includes hose stops (3 × small, 1 × large) for stopping the hoses
 - Can be combined and extended, for example with Kärcher Rain System® components, as well as with the SensoTimer ecologic for efficient control

Kärcher Rain System®

Order no. (PU)¹⁾	2.645-238.0 (1 pc.)	2.645-276.0 (3 pc.)
Price in €*		

¹⁾ PU = packaging unit. All specifications relating to the watering area are based on a system pressure of 4 bar. * Non-binding price recommendation including VAT. G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

A GARDEN FOR THE WHOLE FAMILY TO ENJOY

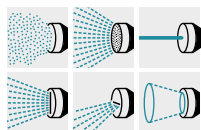


On hot summer days, both people and plants love to be cooled down. With the new garden shower and spray lances, any garden can become a refreshing oasis in no time. The practical Kärcher garden shower can be used not only to provide a refreshing and enjoyable shower, but also as the ideal system for watering your plants. It is easy to install, features a stable tripod and takes up minimum storage space. And the ergonomic Kärcher Premium spray lance is a masterpiece in perfection and comfort. Its various possible applications make it an excellent all-rounder.



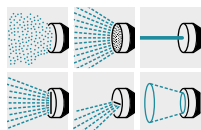
Premium spray lance

- Adjust the water flow rate with one hand and the ON/OFF function.
- 6 spraying patterns
- Rotatable spray head (180°)
- Can be conveniently hung up
- Telescopic lance (70-105 cm)



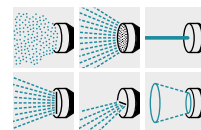
Spray lance Plus

- Adjust the water flow rate with one hand and the ON/OFF function.
- 6 spraying patterns
- Rotatable spray head (180°)
- Can be conveniently hung up



Spray lance

- Adjust the water flow rate with one hand and the ON/OFF function.
- 6 spraying patterns



Spray lances

Order no. Blister (PU)¹⁾	2.645-137.0 (8 pc.)	2.645-158.0 (8 pc.)	2.645-157.0 (8 pc.)
Price in €*			



Garden shower



Wall bracket



**Premium spray lance I display
Spray lance display**

- With tripod and spike; can be set up in under three minutes
- Height adjustable from 1.50 to 2.20 m
- Detachable shower and spray lance (2-in-1)
- Rotatable spray head (180°) with wide shower spray
- Adjust the water flow rate with one hand and the ON/OFF function
- Convenient and space-saving storage
- Spray lances may be optionally attached for use as garden shower
- Can also be used on interior walls for storing spray lances and other pipes (pipe diameter 16-20 mm)
- Includes Anchors and screws
- Ideal for secondary placements
- Includes 32 spray lances
- Space-saving oval shape for displaying against walls and in aisles
- Quick to assemble
- 4 compartments for loose items (maximum 150 items)
- Includes images of different uses and product information



Garden showers and spray lances

Order no. (PU)¹⁾	2.645-181.0 (3 pc.)	2.645-182.0 (6 pc.)	2.645-154.0 -159.0 (32 pc.)
Price in €*			

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

THE RIGHT NOZZLE FOR ANY REQUIREMENT

Perfectly programmed spraying patterns are the foundation of optimal watering. Our varied range of nozzles, complete with rotatable handles, easy water flow regulation and comfortable hand grip elements, provides the perfect solution for any requirement. In addition, our Plus and Premium product lines are bound to impress with their innovative membrane

technology - so that there are no more drips, and garden work is made even more comfortable and efficient. The new metal drip-proof multi-functional spray gun comes highly recommended in this regard. We hope you enjoy watering your garden. You've got the garden - we'll supply the perfect nozzle. Discover our range for yourself!



							
		Flower and plant beds	Cleaning leaves	Seedlings, greenhouse	Cleaning	Watering at hedges and close to the roots	Potted plants, filling
Premium							
	Multi-functional metal spray gun Premium						
	Metal spray gun Premium						
Plus							
	Multi-functional spray gun Plus						
	Spray gun Plus						
Starter							
	Multi-functional spray gun	 					
	Spray gun						
	Spray nozzle						
	Nozzle						

NEED-BASED WATERING



With Kärcher, watering your garden becomes a pleasure rather than a chore. Why not discover our new multi-functional metal spray gun? This premium quality gun with sophisticated design offers four spraying patterns. The innovative membrane technology ensures that unwanted dripping is prevented both when changing the spraying pattern and after switching off the flow. Additional benefits: The handle can be individually adjusted, has a comfortable outer layer made of soft components, and fits nicely in the hand. The robust metal elements on the gun further emphasise the high Kärcher quality and make the product even more durable.

Comfortable volume regulation

The water volume can be comfortably adjusted with just one hand.



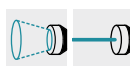
Multi-functional metal spray gun Premium



Metal spray gun Premium

- Drip-proof
- Metal elements for extra robustness and durability
- Rotatable handle to adapt operation to the individual needs
- Soft plastic elements for greater comfort and protection
- 4 spraying patterns: shower, flat jet, fine mist, aerator jet
- Ergonomic volume regulation with one hand, from min. to max.
- Trigger can be easily locked in place for convenient, constant watering

- Rotatable handle to adapt operation to the individual needs
- Metal elements for extra robustness and durability
- Soft plastic elements for greater comfort and protection
- Spraying pattern continuously adjustable from hard jet to cone jet
- Ergonomic volume regulation with one hand, from min. to max.
- Trigger can be easily locked in place for convenient, constant watering



Nozzles and sprinklers

Order no. Card (PU)¹⁾	2.645-271.0 (8 pc.)	2.645-270.0 (10 pc.)
Price in €*		



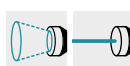
Multi-functional spray gun Plus



Spray gun Plus

- Drip-proof
- Rotatable handle to adapt operation to the individual needs
- Soft plastic elements for greater comfort and protection
- 4 spraying patterns: shower, flat jet, fine mist, hard jet
- Ergonomic volume regulation with one hand, from min. to max.
- Trigger can be easily locked in place for convenient, constant watering

- Rotatable handle to adapt operation to the individual needs
- Soft plastic elements for greater comfort and protection
- Spraying pattern continuously adjustable from hard jet to cone jet
- Ergonomic volume regulation with one hand, from min. to max.
- Trigger can be easily locked in place for convenient, constant watering



Nozzles and sprinklers

Order no. Card (PU)¹⁾	2.645-269.0 (8 pc.)	2.645-268.0 (10 pc.)
Price in €*		

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
 G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



Drip-proofing

The double membrane technology ensures against dripping when changing spraying pattern and after turning off.



Flexible handle adjustment

The rotatable handle can be optimally adjusted to suit the preferences of each individual operator.



Sits comfortably in the hand

High-quality soft components make for slip-free, ergonomic working and protect against injuries.



Easy to change spraying pattern

The spraying pattern can easily be adapted to individual watering requirements at any time.



Multi-functional spray gun

- Spraying pattern continuously adjustable from hard jet to cone jet and shower spray
- Ergonomic volume regulation with one hand, from min. to max.
- Trigger can be easily locked in place for convenient, constant watering



Spray gun

- Spraying pattern continuously adjustable from hard jet to cone jet
- Ergonomic volume regulation with one hand, from min. to max.
- Trigger can be easily locked in place for convenient, constant watering



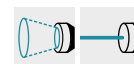
Spray nozzle

- Spraying pattern continuously adjustable from hard jet to cone jet
- Ergonomic volume regulation with one hand, from 0 to max.



Nozzle

- Spraying pattern can be adjusted with minimal movement
- Continuously adjustable from hard jet to cone jet
- Water flow can be locked



Nozzles and sprinklers

Order no. Card (PU)¹⁾	2.645-266.0 (9 pc.)	2.645-265.0 (10 pc.)	2.645-267.0 (14 pc.)	2.645-264.0 (10 pc.)
Order no. Loose (PU)¹⁾	2.645-274.0 (10 pc.)	2.645-273.0 (15 pc.)	2.645-275.0 (15 pc.)	2.645-272.0 (20 pc.)
Price in €*				



Multi-functional spray gun set Plus

- Watering set includes
- Multi-functional spray gun Plus (2.645-269.0)
 - Universal hose connector Plus (2.645-193.0)
 - Universal hose connector Plus with Aqua Stop (2.645-194.0)
 - G3/4 tap adaptor and G1/2 reducer (2.645-006.0)



Spray gun set

- Set includes
- Spray gun (2.645-265.0)
 - Hose connector for 1/2" and 5/8"
 - Hose connector with Aqua Stop for 1/2" and 5/8"
 - G3/4 tap adaptor and G1/2 reducer



Nozzle set

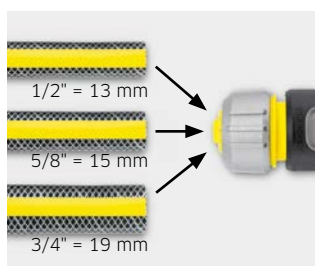
- Starter set includes
- Nozzle (2.645-264.0)
 - Hose connector for 1/2" and 5/8"
 - Hose connector with Aqua Stop for 1/2" and 5/8"
 - G3/4 tap adaptor and G1/2 reducer

Nozzles and sprinklers

Order no. Card (PU)¹⁾	2.645-290.0 (7 pc.)	2.645-289.0 (8 pc.)	2.645-288.0 (16 pc.)
Price in €*			

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
 G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

ONE CONNECTOR. THREE DIAMETERS



Regardless of the hose diameter - 1/2", 5/8" or 3/4": The watertight Kärcher hose connectors are always the perfect fit - guaranteed. The universal hose connectors also boast outstanding resilience and maximum tensile strength. The connectors are available with or without Aqua Stop. The premium universal hose connector also has an aluminium hose fastening and soft plastic recessed handles for even better handling. All Kärcher plug systems are of course compatible with the standard click systems on the market.



Premium universal hose connector

- Robust aluminium hose fastening
- Soft plastic recessed handles for easy handling
- Universally suitable for all standard garden hoses

Premium universal hose connector with Aqua Stop

- Robust aluminium hose fastening
- Soft plastic recessed handles for easy handling
- Aqua stop prevents splashing during disconnection
- Universally suitable for all standard garden hoses

Universal hose connector Plus

- Soft plastic recessed handles for easy handling
- Universally suitable for all standard garden hoses

Universal hose connector Plus with Aqua Stop

- Soft plastic recessed handles for easy handling
- Aqua stop prevents splashing during disconnection
- Universally suitable for all standard garden hoses

Universal hose connector

- Ergonomic design for easy handling
- Universally suitable for all standard garden hoses

Hose connection systems

Order no. Blister (PU)¹⁾	2.645-195.0 (15 pc.)	2.645-196.0 (15 pc.)	2.645-193.0 (15 pc.)	2.645-194.0 (15 pc.)	2.645-191.0 (15 pc.)
Order no. Loose (PU)¹⁾	-	-	2.645-203.0 (25 pc.)	2.645-204.0 (25 pc.)	2.645-201.0 (25 pc.)
Price in €*					



Universal hose connector with Aqua Stop

- Ergonomic design for easy handling
- Aqua stop prevents splashing during disconnection
- Universally suitable for all standard garden hoses



Universal hose mender

- Ergonomic design for easy handling
- For connecting or repairing two hoses
- Universally suitable for all standard garden hoses



Control valve

- For regulating the flow
- Includes 2-way connector
- For connecting a hose and sprinkler or two hoses
- For all standard click systems/connectors



G3/4 tap adaptor with G1/2 reducer

- Very robust
- Reducer allows connection to two thread sizes



G1 tap adaptor with G3/4 reducer

- Very robust
- Reducer allows connection to two thread sizes
- Primarily suitable for connection to Kärcher garden pumps

Hose connection systems

Order no. Blister (PU)¹⁾	2.645-192.0 (15 pc.)	2.645-197.0 (15 pc.)	2.645-198.0 (15 pc.)	2.645-006.0 (15 pc.)	2.645-007.0 (15 pc.)
Order no. Loose (PU)¹⁾	2.645-202.0 (25 pc.)	2.645-207.0 (25 pc.)	2.645-208.0 (15 pc.)	2.645-065.0 (25 pc.)	2.645-066.0 (25 pc.)
Price in €*					

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
 G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



Aqua stop
For safe decoupling without splashing



Recessed handles
Very comfortable soft plastic recessed handles facilitate connection/disconnection of Kärcher premium and plus connectors.



3-way tap adaptor
High-quality 3-way tap adaptor with three independent controls.



3-way connector
Intelligent 3-way connector for straightforward connection of three hoses.



Tap adaptor for round taps

- Perfect for threadless taps
- Thanks to the reducer, outer diameters of between 15 and 20 mm are covered
- Install without tools by attaching the stainless steel hose clamp
- Compatible with standard click systems on the market



Tap adaptor for in-house fittings

- Allows connection to a garden hose in the house
- Robust attachment with brass inner thread
- Thread protection for easy attachment



2-way tap adaptor

- 2 independent, adjustable water connections
- Ideal for connecting two hoses to a single tap with G3/4 thread
- G3/4 brass tap adaptor with g1/2 reducer



3-way tap adaptor

- Tap adaptor for taps with G1 thread and G3/4 reducer
- Makes it possible to water with up to 3 hoses at the same time
- 3 independent, continuous controllers
- With 3 tap adaptors



2-way connector | 3-way connector

- 2-way connector for connecting 2 hoses
- 3-way connector for connecting 3 hoses
- Robust design

Hose connection systems

Order no. Blister (PU)¹⁾	2.645-256.0 (10 pc.)	2.645-010.0 (15 pc.)	2.645-199.0 (10 pc.)	2.645-200.0 (4 pc.)	2.645-008.0 -009.0 (15 pc.)
Order no. Loose (PU)¹⁾	-	-	-	-	2.645-067.0 -068.0 (25 pc.)
Price in €*					



Equipment connectors G1/2 | G3/4

- For connecting hose connectors and sprinklers with inner threads, among other things



Gasket set

- 3 gaskets (2 for G3/4, 1 for G1)
- 1 prefilter for G3/4 tap adaptors



O-ring set

- 6 gaskets (4 × 10.8 × 2.6 mm, 1 × 15.9 × 2.6 mm, 1 × 17.1 × 2.6 mm)
- 1 sprinkler filter

Hose connection systems

Order no. Blister (PU)¹⁾	2.645-098.0 -099.0 (15 pc.)	2.645-073.0 (15 pc.)	2.645-074.0 (15 pc.)
Order no. Loose (PU)¹⁾	-	-	-
Price in €*			

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

INTELLIGENT WATERING



Kärcher's high-quality brass line has been specially developed for demanding gardening tasks. These robust products boast outstanding workmanship and durability. The brass line not only exemplifies Kärcher's high quality claim, but also impresses with its ecologically sound use of materials to avoid waste.

Plastic ring

Comfortable handle thanks to the soft plastic ring.



Brass hose connector, 1/2" and 5/8"

- High-quality brass hose connector
- Comfortable rubber ring on the handle for easy handling and better attachment
- Suitable for 1/2" and 5/8" hoses



Brass hose connector, 1/2" und 5/8", with Aqua Stop

- High-quality brass hose connector
- Comfortable rubber ring on the handle for easy handling and better attachment
- Aqua stop prevents splashing during disconnection
- Suitable for 1/2" and 5/8" hoses



Brass hose connector, 3/4"

- High-quality brass hose connector
- Comfortable rubber ring on the handle for easy handling and better attachment
- Suitable for 3/4" hoses



Brass hose connector, 3/4", with Aqua Stop

- High-quality brass hose connector
- Comfortable rubber ring on the handle for easy handling and better attachment
- Aqua stop prevents splashing during disconnection
- Suitable for 3/4" hoses



Brass hose mender, 1/2" and 5/8" | 3/4"

- For connecting hoses with 1/2" and 5/8" (2.645-102.0) 3/4" (2.645-103.0) inner diameter
- For repairing a damaged hose
- Made from robust brass

Brass line

Order no. Blister (PU)¹⁾	2.645-015.0 (10 pc.)	2.645-017.0 (10 pc.)	2.645-016.0 (10 pc.)	2.645-018.0 (10 pc.)	2.645-102.0 -103.0 (10 pc.)
Price in €*					



Brass 2-way connector

- For connecting two hoses/a hose extension
- Made from robust brass



Brass 3-way connector

- For connecting three hoses
- Allows you to establish two independent hose lines
- Made from robust brass



Brass G3/4 tap adaptor with G1/2 reducer

- High-quality brass tap adaptor
- Comfortable rubber ring on the handle for easy handling and better attachment
- Reducer allows connection to two thread sizes



Brass G1 tap adaptor

- High-quality brass tap adaptor
- Comfortable rubber ring on the handle for easy handling and better attachment



Brass nozzle

- Rubber ring grip for easy handling
- Spraying pattern can be adjusted from hard to soft



Brass line

Order no. Blister (PU)¹⁾	2.645-100.0 (10 pc.)	2.645-101.0 (10 pc.)	2.645-013.0 (10 pc.)	2.645-014.0 (10 pc.)	2.645-054.0 (10 pc.)
Price in €*					

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
 G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



Oscillating sprinkler

Continuously adjustable sprinkling area up to a maximum area of 320 m².

Convenient alignment

The splash guard protects the operator when the sprinkler is being aligned.

In the dry

Protected from the water, you can comfortably adjust the watering area and water volume.

Variable width of spray

The width of spray can be regulated by switching off the nozzles.



Oscillating sprinkler OS 5.320 SV

- Continuous reach adjustment
- Very durable gear
- Comfortable alignment thanks to the splash guard
- Adjustable water volume (0 - max)
- Max. watering area²⁾ 320 m²
- Adjustable width of spray



Oscillating sprinkler OS 5.320 S

- Continuous reach adjustment
- Very durable gear
- Comfortable alignment thanks to the splash guard
- Adjustable water volume (0 - max)
- Max. watering area²⁾ 320 m²



Oscillating sprinkler OS 3.220

- Continuous reach adjustment
- Very durable gear
- Max. watering area²⁾ 220 m²



Pulse, circular and sector sprinkler PS 300

- Watering area of 30 - 360°
- Adjustable spray angle e.g. for watering under trees
- Robust spike for uneven or sloping underground
- Max. watering area²⁾ 706 m²

Sprinklers

Area coverage	Length m	Width m	m ²	Length m	Width m	m ²	Length m	Width m	m ²	ø in m	m ²
For 2 bar	5-16	5-12	25-190	5-16	12	60-190	5-14	9	45-120	25	490
For 4 bar	6-20	6-16	36-320	6-20	16	100-320	6-17	13	80-220	30	706
Spraying pattern											
Order no. (PU)¹⁾	2.645-135.0 (6 pc.)			2.645-134.0 (6 pc.)			2.645-133.0 (6 pc.)			2.645-023.0 (10 pc.)	
Price in €*											



Rotating sprinkler RS 130/3

- Robust metal arms
- Max. watering area²⁾ 133 m²



Rotating sprinkler RS 120/2

- Adjustable spray angle
- Max. watering area²⁾ 113 m²



Circular sprinkler CS 90 Spike I CS 90 Vario

- Robust spike for uneven or sloping underground
- Max. watering area²⁾ 64 m²
- Extra adapter for watering rectangular areas (CS 90 Vario)



Multi-functional surface sprinkler MS 100, 6 functions

- Various possible watering types with 6 different nozzle shapes
- Wall bracket
- Max. watering area²⁾ 78 m²

Sprinklers

Area coverage	ø in m	m ²	ø in m	m ²	ø in m	m ²	ø in m	m ²
For 2 bar	11	95	8	50	9	64	8.4	55
For 4 bar	13	133	12	113	9	64	10	78
Spraying pattern								
Order no. (PU)¹⁾	2.645-019.0 (8 pc.)		2.645-020.0 (8 pc.)		2.645-024.0 -025.0 (10 pc.)		2.645-026.0 (8 pc.)	
Price in €*								

¹⁾ PU = packaging unit. ²⁾ All of the specifications for the watering area are based on a system pressure of 4 bar. * Non-binding price recommendation including VAT. G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

NEW FREEDOM OF MOVEMENT



Greater mobility, less pulling and tugging: the new hose trolleys from Kärcher make gardening considerably easier. Now that the hose can be moved effortlessly from A to B on the hose trolley, the chore of dragging it through the garden is no longer necessary. Obstacles can be bypassed effortlessly and smoothly. The hose is simply unwound and laid down along the route on the ground. The long section of hose is simply connected to the tap and the short hose is used for watering. The result: no more annoying pulling on the hose, no more continually knocking the hose trolley over and considerably less damage.



Metal hose trolley HT 80 M

- Robust and rust-resistance steel frame and drum
- Non-slip, ergonomic handle
- Height-adjustable handle
- Hose guide and freewheeling crank handle
- Angled hose connection
- With two universal hose connectors Plus (2.645-193.0)



Metal hose trolley HT 80 M Kit

- Like HT 80 M hose trolleys
- With 20 m 1/2" PrimoFlex® Plus hose 2.645-144.0, spray gun Plus 2.645-268.0, 4 universal hose connectors Plus (3 × 2.645-193.0, 1 × 2.645-194.0) and G3/4 tap adaptor

Mobile hose storage

Hose capacities		
1/2" (13 mm)	Max. 80 m	Max. 80 m
5/8" (15 mm)	Max. 60 m	Max. 60 m
3/4" (19 mm)	Max. 40 m	Max. 40 m
Order no. (PU) ¹⁾	2.645-042.0 (1 pc.)	2.645-043.0 (1 pc.)
Price in €*		



Hose trolley HT 4.500

- Non-slip, ergonomic handle
- Height-adjustable handle
- Foldable for space-saving storage
- Angled hose connection
- Spray lance or nozzle may optionally be attached
- Storage hook for short hose provides increased mobility
- 2 hose connectors
- Fully assembled



Hose trolley HT 4.520 Kit 1/2" | HT 4.450 Kit 1/2"

- Like the HT 4.500
- HT 4.520 Kit 1/2" with 20 m 1/2" PrimoFlex® hose
- HT 4.450 Kit 1/2" with 40 m 1/2" PrimoFlex® hose
- Nozzle (2.645-264.0), 3 hose connectors, 1 hose connector with Aqua Stop, G3/4 tap adaptor and G1/2 reducer
- Fully assembled



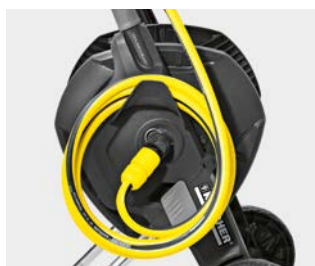
Hose trolley HT 4.520 Kit 5/8"

- Like the HT 4.500
- With 20 m 5/8" PrimoFlex® hose, Nozzle (2.645-264.0), 3 hose connectors, 1 hose connector with Aqua Stop, G3/4 tap adaptor and G1/2 reducer
- Fully assembled

Mobile hose storage

Hose capacities			
1/2" (13 mm)	Max. 50 m	Max. 50 m	Max. 50 m
5/8" (15 mm)	Max. 35 m	Max. 35 m	Max. 35 m
3/4" (19 mm)	Max. 23 m	Max. 23 m	Max. 23 m
Order no. (PU) ¹⁾	2.645-170.0 (6 pc.)	2.645-168.0 (6 pc.) 2.645-244.0 (6 pc.)	2.645-169.0 (6 pc.)
Price in €*			

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
 G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



Mobile with style

Simply place the short end of the hose over the hook, store accessories directly on the hose trolley and move it comfortably to the location of use.



Greater manoeuvrability

No more annoying tugging on the hose: obstacles can now be easily and smoothly bypassed with the new hose trolley.



Compact comfort

The new Kärcher hose trolley occupies minimal storage space.



Robust and durable

High-quality metal hose trolley for discerning gardeners.



Hose trolley HT 3.400

- Height-adjustable handle
- Foldable for space-saving storage
- Fully assembled



Hose trolley HT 3.420 Kit 1/2" | HT 3.425 Kit 1/2"

- HT 3.420 Kit 1/2" with 20 m 1/2" PrimoFlex® hose
- HT 3.425 Kit 1/2" with 2 5 m 1/2" PrimoFlex® hose
- Height-adjustable handle
- Foldable for space-saving storage
- Nozzle (2.645-264.0), 3 hose connectors, 1 hose connector with Aqua Stop, G3/4 tap adaptor and G1/2 reducer
- Fully assembled



Hose trolley HT 3.420 Kit 5/8"

- Height-adjustable handle
- Foldable for space-saving storage
- With 20 m 5/8" Primo Flex® hose, Nozzle (2.645-264.0), 3 hose connectors, 1 hose connector with Aqua Stop, G3/4 tap adaptor and G1/2 reducer
- Fully assembled

Mobile hose storage

Hose capacities			
1/2" (13 mm)	Max. 40 m	Max. 40 m	Max. 40 m
5/8" (15 mm)	Max. 30 m	Max. 30 m	Max. 30 m
3/4" (19 mm)	Max. 20m	Max. 20m	Max. 20m
Order no. (PU)¹⁾	2.645-180.0 (6 pc.)	2.645-166.0 (6 pc.) 2.645-283.0 (6 pc.)	2.645-167.0 (6 pc.)
Price in €*			



Promotion pallet hose trolley HT 3.420 Kit 1/2"

- 18×hose trolley HT 3.420 Kit with 20 m 1/2" PrimoFlex® hose and accessories (2.645-166.0) on one pallet
- 2 attention-grabbing posters with usage diagrams and product information
- Fully assembled



Promotion pallet hose trolley HT 3.420 Kit 5/8"

- 18×hose trolley HT 3.420 Kit with 20 m 5/8" PrimoFlex® hose and accessories (2.645-167.0) on one pallet
- 2 attention-grabbing posters with usage diagrams and product information
- Fully assembled

Mobile hose storage

Order no. Display	2.645-172.0 (18 pc.)	2.645-173.0 (18 pc.)
Price in €*		

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
 G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

PERFECTION IN HOSE STORAGE



No more tripping hazards and hoses left lying around. With Kärcher's practical storage systems, hoses can be elegantly stored and quickly brought out again when needed. For example the premium CR 7.220 automatic hose reel: features smooth automatic hose retraction, integrated angle adjustment and 180° swivel function. Or the compact CR 3.110 hose box with thin 10 m hose: ideal for watering on balconies and roof terraces. What's more, the CR 3.110 balcony hose reel can also be fitted to in-house taps thanks to the matching tap adaptor for in-house fittings.



Premium CR 7.220 automatic hose reel

- With tidy automatic hose retraction
- Smooth hose winding
- Flat, space-saving wall bracket
- Can swivel from 0°-180°
- Adjustable swivel stop prevents damage to walls and objects next to the hose box
- Includes 20 plus 2 m high-quality, phthalate-free 1/2" hose, nozzle (2.645-264.0), 1 hose connector, 1 hose connector with Aqua Stop, G3/4 tap adaptor and G1/2 reducer
- Convenient accessory storage
- Fully assembled



HR 4.525 1/2" Wall Hose Reel Kit *

- Practical hose storage for mobile or stationary use
- Smooth hose reel
- With wall bracket, 25 m 1/2" hose, nozzle (2.645-264.0), 3 hose connectors, 1 hose connector with Aqua Stop, G3/4 tap adaptor and G3/4 reducer for G1/2

Stationary hose storage

Hose capacities	1/2" (13 mm) = max. 20 m	1/2" (13 mm) = max. 50 m
Order no. (PU)¹⁾	2.645-218.0 (1 pc.)	2.645-281.0 (1 pc.)
Price in €*		



Compact CR 3.110 balcony hose reel

- First hose reel for watering on balconies, roof terraces and allotments
- Especially space-saving for storing in an apartment
- No risk of dirt or water leakage in the apartment
- Quick and convenient winding and unwinding
- Supply hose and accessories can be stored directly on the hose box
- Includes 10 plus 2 m high-quality, phthalate-free hose, nozzle (2.645-264.0), 2 hose connectors with Aqua Stop for decoupling without splashing, G3/4 tap adaptor and G1/2 reducer, flat wall bracket, connection pieces for outdoor and indoor taps
- Fully assembled



Display for CR 3.110 balcony hose reel

- Ideal for secondary placements (quarter pallet)
- Attention-grabbing balcony motif
- Universally applicable pallet corner, printed on both sides
- Includes 18 x CR 3.110 balcony hose reel

Stationary hose storage

Hose capacities	5/16" (8 mm) = max. 10 m	-
Order no. (PU)¹⁾	2.645-210.0 (4 pc.)	2.645-211.0 (18 pc.)
Price in €*		

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.

G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



Functional and discreet

No snagging, no unsightliness: The wall bracket with its extra flat design is very discreet. The CR 7.220 Automatic can be safely mounted and removed again.



Superbly compact

Ideal for balconies: Lightweight and with compact dimensions, the CR 3.110 Balcony is very easy to transport.



Smooth hose reel

The optimal spacing between hose and legs makes for convenient handling and easy winding.



Always at hand

No untidiness, no hunting around: the new hose hangers and reels provide ample storage space for your garden accessories.



Premium hose reel HR 7.300

- Practical, space-saving storage for hoses, nozzles and sprayers
- Spacious storage box for garden gloves, shears, shovels, etc.
- Spray lance or nozzle may optionally be attached
- Detachable hose reel (2-in-1)
- With wall bracket and 2 hose connectors
- Fully assembled



Premium hose reel HR 7.315 Kit 1/2"

- Like the HR 7.300 hose reel
- With wall bracket, 15 m 1/2" PrimoFlex® Hose, Nozzle (2.645-264.0), 3 hose connectors, 1 hose connector with Aqua Stop, G3/4 tap adaptor and G1/2 reducer
- Fully assembled



Premium hose reel HR 7.315 Kit 5/8"

- Like the HR 7.300 hose reel
- With wall bracket, 15 m 5/8" PrimoFlex® Hose, Nozzle (2.645-264.0), 3 hose connectors, 1 Hose connector with Aqua Stop, G3/4 tap adaptor and G1/2 reducer
- Fully assembled

Stationary hose storage

Hose capacities			
1/2" (13 mm)	max. 30 m	max. 30 m	max. 30 m
5/8" (15 mm)	max. 20 m	max. 20 m	max. 20 m
Order no. (PU)¹⁾	2.645-163.0 (1 pc.)	2.645-164.0 (1 pc.)	2.645-165.0 (1 pc.)
Price in €*			



Premium hose hanger with box

- Practical, space-saving hose storage
- Storage possibility for nozzles and sprayers
- Storage compartment for tap adaptors, connectors and gardening gloves
- Additional storage box for gardening shears and other tools



Hose switch Plus

- Practical, space-saving hose storage
- Storage possibility for nozzles and sprayers
- Storage compartment for tap adaptors, connectors and gardening gloves



Hose switch

- Robust design
- Easy to mount on outside walls
- Storage possibility for nozzles and sprayers
- For all well-known garden hoses

Stationary hose storage

Order no. (PU)¹⁾	2.645-162.0 (4 pc.)	2.645-161.0 (4 pc.)	2.645-044.0 (10 pc.)
Price in €*			

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

HEALTHY WATERING – WITHOUT PHTHALATES



Kärcher's PrimoFlex® quality hoses are free from plasticisers, which are detrimental to health. They impress with their robustness, flexibility and kink-resistance, as well as outstanding functionality and handling. What's more, Many of our hoses are available as practical sets and ready to use straight away.



PrimoFlex® Premium hose

- For the discerning gardener
- Safe-to-operate and phthalate-free quality garden hose
- Resistant to high pressure thanks to the patented double reinforcement: Knitted and braided weave with innovative yellow Kevlar®²⁾ fibre by DuPont™
- 5 layers
- Weather-resistant anti-UV outer layer
- Opaque middle layer prevents algae formation inside the hose
- Extremely flexible, kink-resistant and resistant to twisting
- Bursting pressure 50 bar³⁾
- High temperature resistance from -20 to +65 °C
- Free from cadmium, barium and lead
- 18-year guarantee



PrimoFlex® hose Plus

- For experienced gardeners
- Safe-to-operate and phthalate-free quality garden hose
- Extremely robust, flexible hose which is resistant to kinks
- Knitted and braided weave with innovative yellow Kevlar®²⁾ fibre by DuPont™
- 3 layers
- Weather-resistant anti-UV outer layer
- Opaque inner layer prevents algae formation inside the hose
- Bursting pressure 45 bar³⁾
- High temperature resistance from -20 to +65 °C
- Free from cadmium, barium and lead
- 15-year guarantee

Hoses

Inner diameter	1/2"		5/8"		1/2"		5/8"		3/4"	
Length	20 m	50 m	25 m	50 m	20 m	50 m	25 m	50 m	25 m	50 m
Weight g/m	155	155	190	190	130	130	160	160	230	230
Order no. (PU) ¹⁾	2.645-1500 (1 pc.)	2.645-1510 (1 pc.)	2.645-1520 (1 pc.)	2.645-1530 (1 pc.)	2.645-144.0 (1 pc.)	2.645-145.0 (1 pc.)	2.645-146.0 (1 pc.)	2.645-147.0 (1 pc.)	2.645-148.0 (1 pc.)	2.645-149.0 (1 pc.)
Price in €*										



PrimoFlex® hose

- Handy garden hose with pressure-resistant woven reinforcement
- Safe-to-operate and phthalate-free quality garden hose
- 3 layers
- Weather-resistant anti-UV outer layer
- Opaque middle layer prevents algae formation inside the hose
- Bursting pressure 24 bar³⁾
- High temperature resistance from -20 to +65 °C
- Free from cadmium, barium and lead
- 12-year guarantee
- Available by the metre for individual length adjustment, max. 50 m (only 2.645-247.0)



Spiral hose set | Spiral hose starter set, 10 m

- Ideal for watering plants in small gardens, on balconies or terraces, or at campsites
- 10 m spiral hose, phthalate-free, resistant to kinks and UV-resistant
- Multifunctional spray gun with 4 spraying patterns
- Two spiral hose connectors with kink protection, one with Aqua Stop
- G3/4 tap adaptor and tap adaptor for in-house fittings (only 2.645-178)
- Wall bracket (only 2.645-178.0)

Hoses

Inner diameter	1/2"		5/8"		3/4"		1"		5/16"	
Length	20 m	30 m	50 m	25 m	50 m	25 m	50 m	50 m	10 m	
Weight g/m	110	110	110	145	145	220	220	360		
Order no. (PU) ¹⁾	2.645-138.0 (1 pc.)	2.645-248.0 (1 pc.)	2.645-139.0 (1 pc.)	2.645-140.0 (1 pc.)	2.645-141.0 (1 pc.)	2.645-142.0 (1 pc.)	2.645-143.0 (1 pc.)	2.645-247.0 (1 pc.)	2.645-178.0 2.645-179.0 (3 pc.)	
Price in €*										

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT ²⁾ Kevlar® is a registered trademark of E.I. du Pont de Nemours and Company.

³⁾ This applies to 1/2" (13 mm) hoses without fittings.

G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



Spiral hose set

Ideal for watering small gardens, balconies or terraces.



Hose connection set

Ideal for garden watering - and for supplying water during high-pressure cleaning.



Water supply hose set

To be connected to round threadless taps. For convenient water supply.



Hose hanger

Practical hose hanger for mounting on walls.



Hose set, 20 m

- Ideal set for beginners
- Spray gun 2.645-265.0
- G3/4 brass tap adaptor with G1/2 reducer 2.645-006.0
- 1/2" PrimoFlex® hose
- Universal hose connector 2.645-191.0
- Universal hose connector with Aqua Stop 2.645-192.0



Hose set, 30 m

- Ideal set for beginners
- Nozzle 2.645-264.0
- G3/4 brass tap adaptor with G1/2 reducer 2.645-006.0
- 1/2" PrimoFlex® hose
- Universal hose connector 2.645-191.0
- Universal hose connector with Aqua Stop 2.645-192.0



Hose set with Hose hanger, 15 m

- Ideal set for use as a supply hose for pressure washers
- Hose switch
- Nozzle 2.645-264.0
- Tap adaptor G1 with reducer G3/4 2.645-007.0
- 1/2" PrimoFlex® hose
- Universal hose connector 2.645-191.0
- Universal hose connector with Aqua Stop 2.645-192.0

Hose sets

Length	20 m	30 m	15 m
Order no. (PU)¹⁾	2.645-115.0 (4 pc.)	2.645-282.0 (4 pc.)	2.645-114.0 (4 pc.)
Price in €*			



Hose connection set for pressure washers

- Ideal set for using as a supply hose for pressure washers
- 10 m 3/4" PrimoFlex® hose
- G3/4 tap adaptor
- Universal hose connector 2.645-193.0
- Universal hose connector with Aqua Stop 2.645-194.0



Water supply hose set

- 10 m 1/2" PrimoFlex® hose
- Hose connector
- Hose connector with Aqua Stop 2.645-256.0 (outer: ø 15-20 mm)



Connection set

- For connecting the hose trolley and reel to the tap
- Suitable for all standard products
- G3/4 tap adaptor with G1/2- reducer (2.645-006.0)
- 2 x Universal hose connector (2.645-191.0)
- 1.5 m 5/8" PrimoFlex® hose

Hose sets

Length	10 m	10 m	
Order no. (PU)¹⁾	2.645-156.0 (1 pc.)	2.645-258.0 (1 pc.)	2.645-122.0 (5 pc.)
Price in €*			

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
 G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

AUTOMATIC WATERING ON DEMAND



Intelligent watering

When the level of soil moisture becomes too low, the watering starts automatically at the next designated time.



Continuous radio contact

Every 30 minutes, the measured level of moisture in the soil is transmitted to the SensoTimer via radio - no need for cables.



Water Timer WT 5

Thanks to its precise programming every weekday, the WT 5 is especially suitable for regions with watering restrictions.



Water Timer WT 2

Combines the advantages of a 3-way tap adaptor and a water timer in a single product.



SensoTimer ST 6 Duo ecologic

- Watering controlled by moisture levels: starts automatically when the soil moisture falls below the desired level; can be set to five different levels
- Can be set to 2 watering times (mornings and evenings)
- Pause mode: deactivates watering for 24 h
- ecologic mode: watering times can be delayed by 1-7 days
- Detachable display for convenient programming
- Includes Tap adaptor and prefilter
- Water stops when the battery has run out
- Includes 2 programmable water outlets
- Includes 2 radio moisture sensors (1 sensor per outlet)



SensoTimer ST 6 ecologic

- Includes 1 programmable water outlet
- Includes 1 radio moisture sensor



Replacement sensor pad

- Replacement sensor pad for SensoTimer ST 6 ecologic and ST 6 Duo ecologic
- Kärcher recommends changing the pad once a year
- Includes two pieces



Automatic watering

Connection thread	G3/4 and G1	G3/4 and G1	-
Order no. Blister (PU)¹⁾	2.645-214.0 (3 pc.)	2.645-213.0 (3 pc.)	2.645-242.0 (15 pc.)
Price in €*			



Water timer WT 5

- Precise programming every weekday
- Start and duration of watering can be programmed to the minute (max. 120 minutes)
- 2 watering sessions per day
- Manual watering possible
- Detachable display for convenient programming
- Pause mode: deactivates watering for 24 h
- Includes Tap adaptor and prefilter
- Water stops when the battery has run out



Water timer WT 4

- Easy individual programming
- Max. watering duration 120 mins
- Manual watering possible
- Detachable display for convenient programming
- Includes Tap adaptor and prefilter
- Water stops when the battery has run out



Water timer WT 2

- Watering stops automatically once the set time has lapsed
Max. 120 min
- Ideal for connecting 3 hoses to a single tap
- 2 water connections with continuous controls
- 1 water connection with water timer
- Includes Tap adaptor and prefilter

Automatic watering

Connection thread	G3/4 and G1	G3/4 and G1	G3/4 and G1
Order no. Blister (PU)¹⁾	2.645-219.0 (3 pc.)	2.645-174.0 (3 pc.)	2.645-209.0 (3 pc.)
Price in €*			

¹⁾ PU = packaging unit. * Non-binding price recommendation including VAT.
G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; Hose inner diameter: 5/16" = 8 mm; 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



THE KÄRCHER PUMP RANGE: THE PERFECT PUMP FOR ANY APPLICATION.

Whether for supplying your home and garden with processed water or water from alternative sources or removing unwanted water quickly and easily, Kärcher offers a suitable pump for every need and area of use. The booster pumps from Kärcher supply enough pressure to pump rain or groundwater from barrels, cisterns and deep wells directly to where it is needed. This allows you to water your garden or supply your toilet or washing machine with service water while being economical and conserving resources. Submersible pumps, by contrast, are for removing water that is unwanted or no longer needed: emptying a pool for spring cleaning ready for the warm season, or draining a flooded cellar, the powerful and robust pumps help restore dryness quickly and reliably.

Booster pumps in brief:

If you want a pump solely for watering the garden, the BP Barrel and BP Garden pumps from Kärcher are an ideal place to start. The BP Barrel Pump allows you to water your garden directly from your water butt, without needing to carry around heavy watering cans. The high-power BP garden models can also easily accommodate sprinklers. The BP Cistern submersible pressure pump is perfect for cisterns, barrels or wide well shafts. It works underwater and switches off automatically as soon as the water level becomes too low. Its principal area of use is for garden watering. Pumps in the BP Deep Well model series are also installed directly in water. Their compact dimensions and higher working pressure make these pumps the ideal solution for narrow, deep wells. With an extra pressure switch, the pumps can also be used for the household service water supply. The Home & Garden pumps in the BP Home & Garden range switch on and off automatically depending on the amount of water required. They are equally well suited for garden and household use – for example for supplying washing machines or toilet flush systems in conjunction with a cistern. The constant operating pressure of the pumps also make them reliable for watering your garden.

Submersible pumps in brief:

Our high-quality submersible pumps enable you to pump large volumes of water very quickly. The pumps in the SP Dirt range are particularly suitable for water with dirt particles – for example in the case of flooding, excavations that have filled up with water, or ponds. The pumps, depending on their performance class, can handle water particles of up to 30 millimetres. The flat suction pumps in the SP Flat range are intended for water with a low dirt level and are suitable for emptying pools, for washing machine leaks or in drainage shafts, for example. The key advantage is that flat suction pumps can pump away water down to a depth of just one millimetre and achieve wipe-dry results.













BOOSTER PUMPS IN BRIEF








Supplying service water throughout the home and garden		Performance data	 For use in the garden	 For use in the home*	 For home & garden use*
Garden					
	 BP 4 Garden Set	45/4,5 $\frac{\text{m}}{\text{bar}}$ 4.000 $\frac{\text{l}}{\text{h}}$ 1.000 $\frac{\text{W}}{\text{max}}$	Max. 800 m ²	-	-
	 BP 3 Garden (also available as BP 3 Garden Set Plus)	40/4 $\frac{\text{m}}{\text{bar}}$ 3.500 $\frac{\text{l}}{\text{h}}$ 800 $\frac{\text{W}}{\text{max}}$	Max. 500 m ²	-	-
	 BP 2 Garden	35/3,5 $\frac{\text{m}}{\text{bar}}$ 3.000 $\frac{\text{l}}{\text{h}}$ 700 $\frac{\text{W}}{\text{max}}$	Max. 350 m ²	-	-
Home & Garden					
	 BP 7 Home & Garden ecologic	60/6 $\frac{\text{m}}{\text{bar}}$ 6.000 $\frac{\text{l}}{\text{h}}$ 1.200 $\frac{\text{W}}{\text{max}}$	Max. 1,200 m ²	Max. 12 people	Max. 900 m ² + max. 4 people
	 BP 5 Home & Garden	48/4,8 $\frac{\text{m}}{\text{bar}}$ 6.000 $\frac{\text{l}}{\text{h}}$ 1.000 $\frac{\text{W}}{\text{max}}$	Max. 1,000 m ²	Max. 12 people	Max. 800 m ² + max. 4 people
	 BP 4 Home & Garden ecologic	45/4,5 $\frac{\text{m}}{\text{bar}}$ 3.800 $\frac{\text{l}}{\text{h}}$ 950 $\frac{\text{W}}{\text{max}}$	Max. 800 m ²	Max. 10 people	Max. 600 m ² + max. 4 people
	 BP 3 Home & Garden	40/4 $\frac{\text{m}}{\text{bar}}$ 3.300 $\frac{\text{l}}{\text{h}}$ 800 $\frac{\text{W}}{\text{max}}$	Max. 500 m ²	Max. 8 people	Max. 300 m ² + max. 4 people
Barrel					
	 BP 1 Barrel (also available as BP 1 Barrel Set)	11/1,1 $\frac{\text{m}}{\text{bar}}$ 3.800 $\frac{\text{l}}{\text{h}}$ 400 $\frac{\text{W}}{\text{max}}$	Max. 100 m ²	-	-
Deep Well					
	 BP 6 Deep Well	55/5,5 $\frac{\text{m}}{\text{bar}}$ 5.000 $\frac{\text{l}}{\text{h}}$ 1.000 $\frac{\text{W}}{\text{max}}$	Max. 1,100 m ²	 Max. 12 people	 Max. 500 m ² + max. 6 people
	 BP 4 Deep Well	43/4,3 $\frac{\text{m}}{\text{bar}}$ 4.600 $\frac{\text{l}}{\text{h}}$ 700 $\frac{\text{W}}{\text{max}}$	Max. 900 m ²	 Max. 6 people	 Max. 300 m ² + max. 4 people
Cistern					
	 BP 2 Cistern	32/3,2 $\frac{\text{m}}{\text{bar}}$ 5.700 $\frac{\text{l}}{\text{h}}$ 800 $\frac{\text{W}}{\text{max}}$	Max. 1,200 m ²	 Max. 6 people	 Max. 600 m ² + max. 2 people

* The recommended values for house water supply are based on a maximum of three storeys.

** By registering at www.kaercher.com/guarantee, you can extend your guarantee to 5 years.

SUBMERSIBLE PUMPS IN BRIEF

Rapid pumping of dirty water in large volumes	Performance data	 Pond / swimming pond	 Flooding	 Small excavation (max. 100 m³)
Submersible dirty water pumps				
  	<p>15.500 l/h max.</p> <p>8 / 0,8 m/bar max.</p> <p>30 mm max.</p> <p>750 W max.</p>	■	■	■
	<p>15.500 l/h max.</p> <p>8 / 0,8 m/bar max.</p> <p>30 mm max.</p> <p>750 W max.</p>	■	■	■
	<p>9.500 l/h max.</p> <p>7 / 0,7 m/bar max.</p> <p>20 mm max.</p> <p>500 W max.</p>	■	■	-
	<p>7.000 l/h max.</p> <p>6 / 0,6 m/bar max.</p> <p>20 mm max.</p> <p>350 W max.</p>	■	-	-
	<p>5.500 l/h max.</p> <p>4,5 / 0,45 m/bar max.</p> <p>20 mm max.</p> <p>250 W max.</p>	■	-	-

Fast pumping of large volumes of clean and lightly contaminated water	Performance data	 Washing machine leaks/Ground-water ingress	 Pool	 Drainage shaft
Submersible flat suction pumps				
  	<p>14.000 l/h max.</p> <p>9 / 0,9 m/bar max.</p> <p>1 mm max.</p> <p>550 W max.</p>	■	■	■
	<p>6.000 l/h max.</p> <p>5 / 0,5 m/bar max.</p> <p>1 mm max.</p> <p>250 W max.</p>	■	■	-

** By registering at www.kaercher.com/guarantee, you can extend your guarantee to 5 years.



BOOSTER PUMPS FROM KÄRCHER: SIMPLY CLEVER!

The Kärcher pump range provides the ideal conditions for luscious plant growth and an efficient and convenient supply of processed water for home and garden. The booster pumps allow you to access alternative water sources with optimum results (for example, for garden watering or toilet flush systems). Multi-stage hydraulics ensure that Kärcher submersible pressure pumps can pump well water, groundwater, rain water and spring water with the necessary pressure. The Kärcher barrel pump allows you to water your garden in an ecologically responsible way directly from your water butt.

Garden pumps
Home & Garden pumps
Barrel pump

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Deep well pumps
Cistern pump

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KÄRCHER GARDEN PUMPS – POWERFUL PACKAGES THAT ARE EASY TO OPERATE

The powerful Kärcher pumps are ideal for watering the garden using alternative water sources such as cisterns or water butts. The practical foot switch provides extra comfort. The thermal protection on the BP 4 garden pump protects against overheating, increasing both the safety and lifetime of the pump at the same time.



Perfectly protected
The built-in thermal protection protects the pump from overheating.



Versatile
The BP Garden is suitable not only for watering with a nozzle and a spray lance, but also in conjunction with a lawn sprinkler.



Ready to use
The BP 4 Garden Set complete with connectible vacuum-resistant spiral hose with suction filter and non-return valve.



Optimally equipped
The BP 3 Garden Set Plus offers a suction hose, a 20 m 1/2" Primoflex Hose, a nozzle, connectors and a tap adaptor.



BP 4 Garden Set



BP 3 Garden Set Plus

- All garden pumps can be connected without tools thanks to the optimised connection adapters
- Long lifetime
- Maximum safety thanks to the integrated thermal protection for a long lifetime
- Direct application thanks to the supplied 3/4" spiral hose (3.5 m) including filter and non-return valve

- All garden pumps can be connected without tools thanks to the optimised connection adapters
- Long lifetime
- Direct application thanks to the supplied 3/4" spiral hose including filter and non-return valve, 20 m 1/2" Primoflex hose, nozzle, connectors and tap adaptor

Technical data

Max. delivery height/pressure	m / bar	45 / 4.5	40 / 4.0
Max. flow rate **	l/h	4000	3500
Max. motor rating	W	1000	800
Max. suction height	m	8	8
Pump type		Jet	Jet
Delivery temperature, max.	°C	35	35
Weight without accessories	kg	9	8.3
Dimensions (L x W x H)	mm	340 x 210 x 230	340 x 210 x 230
Connection thread		G1	G1
Power cable H07RN-F	m	1.5	1.5

Equipment

Comfortable carrying handle	■	■
Optimised union	■	■
Connection adaptor for G1 pumps	■	■
Convenient foot switch	■	■
Thermal protection	■	-
Suction kit	■	■
Watering set	-	■
EU order number	1.645-352.0	1.645-357.0
Price in €*		

■ Included in the scope of delivery. * Non-binding price recommendation including VAT.

** Tip: The capacity of the pump depends on the delivery height and the connected hoses and watering systems. The lower the delivery height and the larger the diameter of the connected hoses and watering systems, the higher the flow volumes. *** By registering at www.kaercher.com/guarantee, you can extend your guarantee to 5 years.



No need to bend over

Thanks to the large foot switch, the pump can be switched on and off comfortably in a way that is gentle on your back.



Easy to transport

The ergonomic handle makes it easy to handle.



Effective use of alternative water sources

The BP garden pumps enable the use of rain water from barrels and cisterns for watering. This saves drinking water and saves both money and the environment.



reddot award 2014
best of the best



BP 3 Garden

- All garden pumps can be connected without tools thanks to the optimised connection adapters
- Long lifetime



reddot award 2014
best of the best



BP 2 Garden

- All garden pumps can be connected without tools thanks to the optimised connection adapters
- Long lifetime

m / bar	40 / 4.0	35 / 3.5
l / h	3500	3000
W	800	700
m	8	8
	Jet	Jet
°C	35	35
kg	8.3	8.1
mm	340 × 210 × 230	340 × 210 × 230
	G1	G1
m	1.5	1.5

	■	■
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	-	-
	-	-
	-	-
	-	-
	1.645-351.0	1.645-350.0

THE PERFECT PUMP FOR HOME AND GARDEN

Whether you want to water the garden or supply water for the washing machine or the toilet – Kärcher’s durable, intelligent and high-quality pumps are perfectly suited to using alternative water sources. The pumps switch on automatically – and then off again – as required. The multistage pumps provide even more power and efficiency and even less operating noise. At the same flow rate, they require a lower motor rating than conventional jet pumps. This reduces energy consumption by roughly 30 per cent. The ecologic models with a 0-watt stand-by function are even more energy efficient.



Safe and durable

Kärcher Home & Garden pumps come equipped with a prefilter, non-return valve and dry-run protection as standard.



Save electricity

The 0-watt stand-by function on the ecologic models reduces power consumption. This makes it easy on both your budget and the environment.



Well informed

In the event of a breakdown, the fault display indicates exactly where the cause of the breakdown lies – on either the suction or pressure side.



Can be fitted in a variety of ways

The machines come with a 2-way connection adaptor that can be fitted in a variety of ways, allowing you to align the connected hoses for maximum effect.



BP 7 Home & Garden ecologic

- Perfect for home & garden
- Extra-long lifetime
- Multi-stage for improved energy efficiency and noise levels
- Energy-saving thanks to the 0-watt stand-by mode



BP 5 Home & Garden

- Perfect for home & garden
- Extra-long lifetime
- Multi-stage for improved energy efficiency and noise levels

Technical data

Max. delivery height/pressure	m / bar	60 / 6.0	48 / 4.8
Max. flow rate **	l/h	6000	6000
Max. motor rating	W	1200	1000
Max. suction height	m	8	8
Pump type		5-stage	4-stage
Delivery temperature, max.	°C	35	35
Weight without accessories	kg	13	12.5
Dimensions (L x W x H)	mm	500 x 235 x 300	500 x 235 x 300
Connection thread		G1	G1
Power cable H07RN-F	m	1.85	1.85

Equipment

Automatic start/stop function	■	■
0-watt stand-by function	■	-
Multistage drive	■	■
Includes prefilter and non-return valve	■	■
Dry-run protection	■	■
Large filler neck	■	■
2-way connection adaptor, G1	■	■
Convenient foot switch	■	■
Cable storage	■	■
Error indication	■	■
EU order number	1.645-356.0	1.645-355.0
Price in €*		

■ Included in the scope of delivery. * Non-binding price recommendation incl. VAT ** Tip: The capacity of the pump depends on the delivery height and the connected hoses and watering systems. The lower the delivery height and the larger the diameter of the connected hoses and watering systems, the higher the flow volumes. *** In comparison with jet pumps, based on the water volume pumped. **** By registering at www.kaercher.com/guarantee, you can extend your guarantee to 5 years.



Automatic intelligence

Kärcher Home & Garden pumps operate only when they are needed. They start and stop automatically, depending on the amount of water required.



Twice as practical

The 2-way connection adaptor allows you to use two water outlets simultaneously, for example for manual watering in addition to watering the lawn using sprinklers.



Easy to use in both home and garden

The pumps provide a reliable water supply for washing machines while also generating constant pressure for consistent garden watering.



Very quiet and efficient

At the same power level, the multistage pumps reduce energy consumption by up to 30 per cent in comparison with jet pumps – and they are also noticeably quieter.



reddot award 2014
honourable mention



BP 4 Home & Garden eco!logic

- Perfect for home & garden
- Extra-long lifetime
- Energy-saving thanks to the 0-watt stand-by mode



reddot award 2014
honourable mention



BP 3 Home & Garden

- Perfect for home & garden
- Extra-long lifetime

m/bar	45/4.5
l/h	3800
W	950
m	8
	Jet
°C	35
kg	10.6
mm	500 × 235 × 300
	G1
m	1.85

	40/4.0
	3300
	800
	8
	Jet
	35
	10.3
	500 × 235 × 300
	G1
	1.85

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1.645-354.0

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1.645-353.0

BARREL PUMP - UTILISING AND CONSERVING RESOURCES

The innovative Kärcher barrel pump with an integrated on/off switch on the barrel mounting clamp makes it easy, efficient and economical to water your garden with soft and nutrient-rich rain water. The advantages are clear: no more lifting heavy watering cans. No more consumption of valuable drinking water. No unnecessarily high water bills.



Easy and light

The perfect replacement for a watering can: using a drum pump for pumping rain water is easy on your back and saves valuable drinking water.



Perfect fit

The practical water barrel mounting clamp guarantees perfect hold thanks to the very high fitting accuracy.



Practical and secure

The integrated on/off switch on the barrel mounting clamp allows quick switching on and off on the spot, thus saving energy.



Innovative and convenient

Kärcher drum pumps are equipped with a convenient carrying handle, a hose with adjustable length and a prefilter.



BP 1 Barrel

- Flexible clamping device
- Includes prefilter
- Integrated on/off switch in the float switch



BP 1 Barrel Set

- Ideal set for beginners
- BP 1 Barrel with accessories: Spray gun, 15 m 1/2" PrimoFlex® hose, universal hose connector, universal hose connector with Aqua Stop

Technical data

Technical data		BP 1 Barrel	BP 1 Barrel Set
Max. delivery height/pressure	m / bar	11 / 1.1	11 / 1.1
Max. flow rate **	l/h	3800	3800
Max. motor rating	W	400	400
Max. immersion depth	m	7	7
Delivery temperature, max.	°C	35	35
Weight without accessories	kg	5.6	5.6
Dimensions (L x W x H)	mm	172 x 137 x 266	172 x 137 x 266
Power cable H05RN-F	m	10	10

Equipment

Comfortable carrying handle	■	■
Flexible clamping device	■	■
Hose with adjustable length	■	■
Includes Prefilter	■	■
Integrated on/off switch	■	■
Control and shut-off valve	■	■
Easy definition of switching level	■	■
Watering accessories	-	■
EU order number	1.645-460.0	1.645-465.0
Price in €*		

■ Included in the scope of delivery. * Non-binding price recommendation incl. VAT.

** Tip: The capacity of the pump depends on the delivery height and the connected hoses and watering systems.

The lower the delivery height and the larger the diameter of the connected hoses and watering systems, the higher the flow volumes.

SUBMERSIBLE PRESSURE PUMPS – DEEPLY IMPRESSIVE

Thanks to Kärcher's compact and versatile stainless-steel submersible pressure pumps, you can use alternative water sources such as cisterns or deep wells for resource-conserving watering. The multistage hydraulics ensure that rain water, well water, ground water and spring water can be pumped with sufficient pressure, even from deep-lying areas.



Safe and robust

Casing and threaded connectors made from stainless steel ensure that Kärcher submersible pressure pumps are impact-resistant and durable.



Optimum protection

The distance foot on the BP Deep Well protects the pump against contamination during installation and protects the prefilter throughout the entire lifetime of the pump.



Easy to use

The Deep Well Box provides over-current protection and is equipped with an on/off switch that is easy and safe to operate.



30 m maximum depth range

Thanks to its extra-long cord (30 m), the BP 6 Deep Well can pump water from even the lowest depths. Fastening rope included.



BP 6 Deep Well

- Stainless steel pump housing and threaded connector
- 3/4" and 1" hose connection piece including non-return valve and hose clamp
- Integrated distance foot assists during installation
- Separate on/off switch at the end of the cord
- Includes 30 m power cable and fastening rope



BP 4 Deep Well

- Stainless steel pump housing and threaded connector
- 3/4" and 1" hose connection piece including non-return valve and hose clamp
- Integrated distance foot assists during installation
- Separate on/off switch at the end of the cord
- Includes 15 m power cable and fastening rope



BP 2 Cistern

- Pump housing, threaded connector and comfortable carrying handle made from stainless steel
- 3/4" and 1" hose connection piece including non-return valve and hose clamp
- Float switch with adjustable switching level

Technical data

		BP 6	BP 4	BP 2
Max. delivery height/pressure	m/bar	55/5.5	43/4.3	32/3.2
Max. flow rate **	l/h	5000	4600	5700
Max. motor rating	W	1000	700	800
Max. immersion depth	m	27	12	7
Pump type		8-stage	6-stage	3-stage
Diameter	mm	99	99	128
Delivery temperature, max.	°C	35	35	35
Weight without accessories	kg	13.7	10.1	10
Dimensions (L x W x H)	mm	99 x 99 x 717	99 x 99 x 620	128 x 128 x 438
Connection thread		G1	G1	G1
Power cable H07RN-F	m	30	15	10

Equipment

	BP 6	BP 4	BP 2
Pump housing and threaded connector	Stainless steel	Stainless steel	Stainless steel
Includes Hose connection piece with hose clamp	1", 3/4"	1", 3/4"	1", 3/4"
Integrated non-return valve	■	■	■
Distance foot assists during installation	■	■	-
Fastening rope	30 m	15 m	-
EU order number	1.645-422.0	1.645-421.0	1.645-420.0
Price in €*			

■ Included in the scope of delivery. * Non-binding price recommendation incl. VAT.

** Tip: The capacity of the pump depends on the delivery height and the connected hoses and watering systems.

The lower the delivery height and the larger the diameter of the connected hoses and watering systems, the higher the flow volumes.

For details of Kärcher's extensive Original accessories range, please see pages 52 - 57.



OUR SUBMERSIBLE PUMPS – IMPRESSIVELY RELIABLE

Kärcher submersible pumps are fitted with a ceramic slide ring sealing, a tried-and-tested solution often used in the professional sector. This high-quality sealing makes the pumps more robust, prolongs their service life and means they are perfect for demanding use in the private sector. Our submersible dirty water pumps easily transport contaminated water from A to B. Submersible flat suction pumps can pump water down to a depth of just one millimetre, providing mop-dry results. In short: Kärcher's range offers the perfect pump for any application and provides need-based equipment details such as the integrated prefilter or the level sensor with continuous switching level adjustment.

Submersible dirty water pumps
Submersible flat suction pumps

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Page 51



SUBMERSIBLE DIRTY WATER PUMPS – FOR DEMANDING TASKS

Our submersible dirty water pumps are robust to the core with a particularly long lifetime. They can handle any task in the private sphere, no matter how demanding, and convey water with dirt particles of up to 30 mm – depending on the performance class. Our top models are equipped with an integrated stainless steel prefilter for even better pump protection.



Extremely durable

Protected by an oil chamber, the ceramic slide ring sealing considerably increases the lifetime of the submersible pumps.



Flexible switching level adjustment

The vertically adjustable float switch offers increased flexibility when changing the switching level.



Perfect protection

The prefilter, available in integrated form or as an optional accessory, reliably protects the pump against blockage.



Automatic pump starter

The level sensor reacts immediately – even at the lowest water level.



SP 7 Dirt Inox



SP 7 Dirt



SP 5 Dirt



SP 3 Dirt | SP 1 Dirt

- Extremely durable thanks to the ceramic slide ring sealing
- Continuous switching level definition
- Integrated stainless steel prefilter
- Change between automatic and manual operation using a switch on the pump
- Height-adjustable float switch for more flexibility
- Integrated stainless steel prefilter
- Height-adjustable float switch for more flexibility
- Possibility to fix the float switch

Technical data

Max. flow rate**	l/h	15,500	15,500	9,500	7,000 5,500
Max. delivery height / pressure	m / bar	8 / 0.8	8 / 0.8	7 / 0.7	6 / 0.6 4.5 / 0.45
Max. grain size	mm	30	30	20	20
Flat pick-up (down to)	mm	-	-	-	-
Max. motor rating	W	750	750	500	350 250
Max. immersion depth	m	7	7	7	7
Max. delivery temperature	°C	35	35	35	35
Weight without accessories	kg	6.7	6.5	4.6	4.2 3.7
Dimensions incl. accessories (L×W×H)	mm	238×287×354	230×285×354	229×238×303	229×238×303
Connection thread		G 1 1/2	G 1 1/2	G1	G1
Power cable	m	10	10	10	10

Equipment

Ceramic slide ring sealing	■	■	■	■
Switch to flat pick-up	-	-	-	-
Level Sensor	■	-	-	-
Vertically adjustable float switch	-	■	■	-
Switching from automatic / manual operation	Switch on the pump	Option to attach float	Option to attach float	Option to attach float
Stainless steel prefilter	integrated	integrated	available as optional accessory	available as optional accessory
Quick Connect	■	■	■	■
Hose connection piece	1", 1 1/4", 1 1/2"	1", 1 1/4", 1 1/2"	1 1/4"	1 1/4"
EU order number	1.645-506.0	1.645-504.0	1.645-503.0	1.645-502.0 -500.0
Price in €*				

■ Included in the scope of delivery. * Non-binding price recommendation incl. VAT.

** Tip: The capacity of the pump depends on the delivery height and the connected hoses and watering systems. The lower the delivery height and the larger the diameter of the connected hoses and watering systems, the higher the flow volumes. *** By registering at www.kaercher.com/guarantee, you can extend your guarantee to 5 years.

SUBMERSIBLE FLAT SUCTION PUMPS - FOR MOP-DRY RESULTS

Our submersible flat suction pumps transport clear or slightly dirty water containing particles of up to 5 mm. Thanks to the folding legs, water can be pumped out right down to a level of 1 mm for mop-dry results. The level sensor ensures that the pump starts even at very low water levels. Both the SP 7 Dirt Inox and the SP 6 Flat Inox models can be operated in both automatic and manual mode according to requirements via a separate switch on the pump.



Mop-dry pumping results
Once the legs have been folded away, the submersible flat suction pumps can remove water to a depth of 1 mm for mop-dry results.



Individual switching level
The switching level can be adjusted continuously simply by moving the Level Sensor.



Manual or automatic
Easy to switch between manual operation and automatic mode.



Practical, fast connection
Quick and simple hose handling thanks to Quick Connect.



SP 6 Flat Inox

- Extremely durable thanks to the ceramic slide ring sealing
- Flat pick-up down to 1 mm
- Continuous switching level definition
- Detachable stainless steel prefilter
- Change between automatic and manual operation using a switch on the pump



SP 2 Flat

- Flat pick-up down to 1 mm
- Possibility to fix the float switch

l/h	14,000	6,000
m/bar	9/0.9	5/ 0.5
mm	5	5
mm	1	1
W	550	250
m	7	7
°C	35	35
kg	5.7	3.7
mm	238 × 287 × 356	227 × 240 × 262
	G 1 1/2	G1
m	10	10

■	■
■	■
■	-
-	-
Switch on the pump detachable	Option to attach float available as optional accessory
■	■
1", 1 ¼", 1 ½" including non-return valve	1 ¼"
1.645-505.0	1.645-501.0

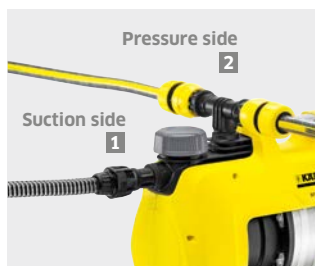


ACCESSORIES FOR PUMP SYSTEMS: EVERY PART AN ORIGINAL!

Kärcher customers benefit from an extensive range of high-quality original accessories. Kärcher vacuum-proof spiral hoses, suction kits, prefilters, adaptors, dry-run protection and electronic pressure switches allow you to systematically design your individual watering areas around each other for optimum results. You can use water from alternative sources, allowing you to conserve your resources.



THE RIGHT ACCESSORY FOR EVERY PUMP



Whether on the suction or pressure side, with the right combination of high-quality accessories from Kärcher, the pumps can be put to use quickly, easily and safely. Our accessories table on the next page provides useful information about the individual accessory parts.

Optional accessories		
Garden		
<p>BP 4 Garden Set</p> <p>BP 3 Garden</p> <p>BP 2 Garden</p> <p>5 YEARS GUARANTEE</p>	<p>1 Options for suction side connection</p> <p>10" optional: pump prefilter</p> <p>13" 1, 2" 7, 8" 9"</p> <p>4, 5" 3"</p> <p>Available by the metre</p>	<p>2 Options for pressure side connection</p> <p>2.645-193.0 Tap adaptor 2.645-007.0</p> <p>3/4" (e.g. 2.645-148.0) 17"</p>
Home & Garden		
<p>BP 7 Home & Garden ecologic</p> <p>BP 5 Home & Garden</p> <p>BP 4 Home & Garden ecologic</p> <p>BP 3 Home & Garden</p> <p>5 YEARS GUARANTEE</p>	<p>1 Options for suction side connection</p> <p>11" optional: pump prefilter</p> <p>13" 1, 2" 7, 8" 9"</p> <p>4, 5" 3"</p> <p>For pipelines 6"</p> <p>Available by the metre</p>	<p>2 Options for pressure side connection</p> <p>3/4" (e.g. 2.645-148.0) 2.645-193.0 Tap adaptor 2.645-007.0</p> <p>3/4" (z.B. 2.645-148.0) 17"</p> <p>For pipelines 21"</p>
Barrel		
<p>BP 1 Barrel</p>	<p>5/8" (e.g. 2.645-140.0)</p> <p>2.645-193.0 2.645-203.0</p> <p>2.645-194.0 2.645-204.0 (e.g. 2.645-268.0)</p>	
Deep Well		
<p>BP 6 Deep Well</p> <p>BP 4 Deep Well</p>	<p>3/4" (e.g. 2.645-148.0) 1" pipeline 3/4" (e.g. 2.645-148.0)</p> <p>13" 14" 18" 19"</p>	
Cistern		
<p>BP 2 Cistern</p>	<p>3/4" (e.g. 2.645-148.0) 1" pipeline 3/4" (e.g. 2.645-148.0)</p> <p>13" 14" 19"</p>	

* These numbers are reference numbers for the accessories table on the next page, where you can find more information about the relevant accessory.

** By registering at www.kaercher.com/guarantee, you can extend your guarantee to 5 years.



BP 4 Garden Set.



SP 7 Dirt Inox.



BP 2 Cistern.



BP 7 Home & Garden ecologic.

Optional accessories

Submersible dirty water pumps					
		Prefilter	Pump connectors	Hoses	
 	 SP 7 Dirt Inox	 Integrated into the pump	1", 1 1/4", 1 1/2" Included in the scope of delivery	 Fabric hose set (22") 1 1/4" 2.997-100.0	
	 SP 7 Dirt	 Integrated into the pump	1", 1 1/4", 1 1/2" Included in the scope of delivery	 Fabric hose set (22") 1 1/4" 2.997-100.0	
 SP 5 Dirt	 12"	1 1/4" Included in the scope of delivery	 Fabric hose set (22") 1 1/4" 2.997-100.0		
			3/4" and 1" 13"	 PrimoFlex® 3/4" 2.645-142.0 1" 2.645-247.0 When the pump connector is also used (13")	 PrimoFlex® Plus 3/4" 2.645-148.0
 SP 3 Dirt	 12"	1 1/4" Included in the scope of delivery	 Fabric hose set (22") 1 1/4" 2.997-100.0		
			3/4" and 1" 13"	 PrimoFlex® 3/4" 2.645-142.0 1" 2.645-247.0 When the pump connector is also used (13")	 PrimoFlex® Plus 3/4" 2.645-148.0
 SP 1 Dirt	 12"	1 1/4" Included in the scope of delivery	 Fabric hose set (22") 1 1/4" 2.997-100.0		
			3/4" and 1" 13"	 PrimoFlex® 3/4" 2.645-142.0 1" 2.645-247.0 When the pump connector is also used (13")	 PrimoFlex® Plus 3/4" 2.645-148.0
Submersible flat suction pumps					
		Prefilter	Pump connectors	Hoses	
 	 SP 6 Flat Inox	 Included in the scope of delivery	1", 1 1/4", 1 1/2" Included in the scope of delivery	 Fabric hose set (22") 1 1/4" 2.997-100.0	
	 SP 2 Flat	 12"	1 1/4" Included in the scope of delivery	 Fabric hose set (22") 1 1/4" 2.997-100.0	
			3/4" and 1" 13"	 PrimoFlex® 3/4" 2.645-142.0 1" 2.645-247.0 When the pump connector is also used (13")	 PrimoFlex® Plus 3/4" 2.645-148.0

* These numbers are reference numbers for the accessories table on the next page, where you can find more information about the relevant accessory.






















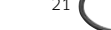
** By registering at www.kaercher.com/guarantee, you can extend your guarantee to 5 years.

ACCESSORIES FOR PUMP SYSTEMS



Systematically efficient

By combining the individual high-quality accessories from Kärcher, pumps can be put into operation quickly and easily. Vacuum-proof spiral hoses, suction kits, prefilters, adaptors, dry-run protection, electronic pressure switches and so on can be combined with each other and configured to ensure resource-conserving operation. The individual watering areas can then be designed according to their needs and water from alternative sources can be utilised in the most efficient way possible.

		Order no.	Sizes	Diameter	Price in €*	
Vacuum-proof spiral hoses						
	1, 2	Vacuum-resistant spiral hose, available by the metre	1	6.997-347.0	Length: 25 m	3/4"
	3	Vacuum-resistant spiral hose, available by the metre	2	6.997-346.0	Length: 25 m	1"
	4	Suction hose	3	6.997-348.0	Length: 3.5 m	3/4"
	5	Suction kit, 3.5 m	4	6.997-350.0	Length: 3.5 m	3/4"
	6	Suction kit, 7 m	5	6.997-349.0	Length: 7 m	3/4"
	6	Suction hose for pipelines	6	6.997-360.0	Length: 0.6 m	3/4"
Filter						
	7, 8	Suction filter with non-return valve, basic, 3/4"	7	6.997-345.0	-	3/4"
	8	Suction filter with non-return valve, basic, 1"	8	6.997-342.0	-	1"
	9	Suction filter with non-return valve, premium	9	6.997-341.0	Set for 3/4" and 1" hoses	-
	10	Pump prefilter, small	10	6.997-343.0	Up to 4,000 l/h Mesh size: 250 µm (0.25 mm)	-
	11	Pump prefilter, large	11	6.997-344.0	Up to 6,000 l/h Mesh size: 250 µm (0.25 mm)	-
	12	Prefilter for submersible pumps, small	12	2.997-201.0	Mesh size: 5 mm	-
Adapters/connections						
	13	Pump connector including non-return valve	13	6.997-359.0	For 3/4" and 1" hoses	-
	14	Connection adaptor for G1 pumps	14	6.997-473.0	1" on 1"	-
	15	2-way connection adaptor for G1 pumps	15	6.997-474.0	1" on 1"	-
	16	Basic pump connector kit	16	6.997-358.0	-	-
	17	Premium pump connector kit	17	6.997-340.0	-	-
Miscellaneous						
	18	Dry-run protection	18	6.997-355.0	-	-
	19	Electronic pressure switch with dry-run protection	19	6.997-357.0	-	-
	20	Float switch	20	6.997-356.0	-	-
	21	Pressure compensation hose	21	6.997-417.0	Length: 1 m	3/4"
	22	Fabric hose set	22	2.997-100.0	Length: 10 m	1 1/4"

■ Included in the scope of delivery. □ Optional accessories. * Non-binding price recommendation incl. VAT.



BP 4 Garden Set.



BP 7 Home & Garden ecologic.



BP 6 Deep Well.



SP 2 Flat.

Description	BP 4 Garden Set	BP 3 Garden	BP 2 Garden	BP 7 Home & Garden eco	BP 5 Home & Garden	BP 4 Home & Garden eco	BP 3 Home & Garden	BP 6 Deep Well	BP 4 Deep Well	BP 2 Cistern	SP 7 Dirt Inox	SP 5 Dirt	SP 3 Dirt	SP 1 Dirt	SP 6 Flat Inox	SP 2 Flat
Vacuum-resistant spiral hose. Available by the metre for individual hose lengths. Can be used as an individual suction kit in combination with the Kärcher connection pieces and Kärcher suction filters.	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vacuum-resistant spiral hose. Available by the metre for individual hose lengths. Can be used as an individual suction kit in combination with the Kärcher connection pieces and Kärcher suction filters.	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vacuum-resistant spiral hose ready for immediate connection directly to the pumps. For extending the suction kit or for use with suction filters. For pumps with G1 (33.3 mm) connection thread.	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Vacuum-resistant spiral hose with suction filter and non-return valve ready for immediate connection. Can also be used as an extension piece for the suction hose. For pumps with G1 (33.3 mm) connection thread.	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Vacuum-resistant spiral hose with suction filter and non-return valve ready for immediate connection. Can also be used as an extension piece for the suction hose. For pumps with G1 (33.3 mm) connection thread.	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Vacuum-proof connection from the pump to the well or pipelines on the suction side. You must comply with any local water regulations when connecting the pump. Double-sided G1 (33.3 mm) connection thread.	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
For connection to the suction hose (available by the metre). The non-return valve prevents the pumped water from flowing back and therefore shortens the re-suction time. Includes hose clamp.	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
For connection to the suction hose (available by the metre). The non-return valve prevents the pumped water from flowing back and therefore shortens the re-suction time. Includes hose clamp.	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Robust metal/plastic model. For connection to the suction hose (available by the metre). The non-return valve prevents the pumped water from flowing back and therefore shortens the re-suction time. Includes hose clamp.	9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Pump prefilter suitable for all standard pumps without an integrated filter. Provides protection for the pump against coarse dirt particles or sand. The fine filter can be washed. For pumps with G1 (33.3 mm) connection thread.	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Pump prefilter suitable for all standard pumps without an integrated filter. Provides protection for the pump against coarse dirt particles or sand. The fine filter can be washed. For pumps with G1 (33.3 mm) connection thread.	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
The robust prefilter is easy to fit and protects your submersible pump, thereby increasing its operational reliability.	12											<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For vacuum-proof connection of the hoses to the pump. Includes hose clamp, flat seal and non-return valve (do not use with BP Home & Garden). For pumps with G1 (33.3 mm) connection thread and 3/4" and 1" hoses.	13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
For connecting pumps with inner threads to water connections.	14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
For connecting pumps with inner threads to water connections. Flexible: can be used with one or two active outlets. The outlets can be used on both sides or alternatively one outlet can face upwards.	15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
For connecting 1/2" (12.7 mm) water hoses to pumps with G1 (33.3 mm) connection thread.	16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
For connecting 3/4" (19 mm) water hoses to pumps with G1 (33.3 mm) connection thread. For increased water flow.	17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
If water is not running through the pump, the dry-run protection protects the pump against damage and switches it off automatically. With G1 (33.3 mm) connection thread.	18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>							
Ideal for converting a garden pump into an electronic booster pump. The pumps switch on and off automatically based on the amount of water required. If water is not running through the pump, the dry-run protection protects the pump against damage and switches it off automatically. With G1 (33.3 mm) connection thread.	19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>							
The float switch switches the pump on or off automatically depending on the water level. With special 10 m power cable.	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input checked="" type="checkbox"/>							
Connection hose for rigid pipeline systems. An elastic interior hose made from silicon provides equalisation in the casing in the event of a pressure drop. This reduces vibrations and therefore reduces noise levels considerably. The internal expansion in the hose also prevents the pump from switching on or off sporadically. G1 (33.3 mm) connection threads at both ends. Length: 1.0 m diameter: 3/4".	21			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
Flexible fabric hose with stainless steel hose clamp (30-40 mm) with wing bolt for tool-free connection. Highly recommended for submersible pumps used for the removal of large volumes of water. Max. operating pressure: 5 bar.	22										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CALCULATION OF THE PUMP CAPACITY – BOOSTER PUMPS

The decisive criteria here are the flow rate and delivery pressure (= delivery height as above) required during application. You can use the calculated values to select the most appropriate pump from the pump performance curve.

Example calculation for selecting the right BP Home & Garden pump:

Q* = flow rate

1. You must first determine the total volume of water required for all of the other points of use that require water at the same time. For the following points of use, guidelines for consumption are: Toilet flushing cisterns = 4 l/min, washing machine = 10 l/min, watering the garden = 10 l/min per sprinkler, cleaning work = 8 l/min.

2. The consumption values that are to be used must be added to the figure.

(Example: use of the washing machine, plus the use of two sprinklers, while also carrying out cleaning work → 10 l/min + 2 × 10 l/min + 8 l/min = 38 l/min).

3. However, since the points of use are not constantly in use, only 50% of the total consumption is taken into account as a usage factor.

(Example: → 38 l/min × 0.5 = 19 l/min).

This means a demand of roughly 1,150 litres per hour; 19 l/min × 60 min).

H** = required delivery pressure or delivery height required for the pump

The delivery height required for the pump combines the suction height (HS) + pumping height (HF) + required working pressure in water column metres (HW). An additional 15% is added at the end to compensate for line loss.

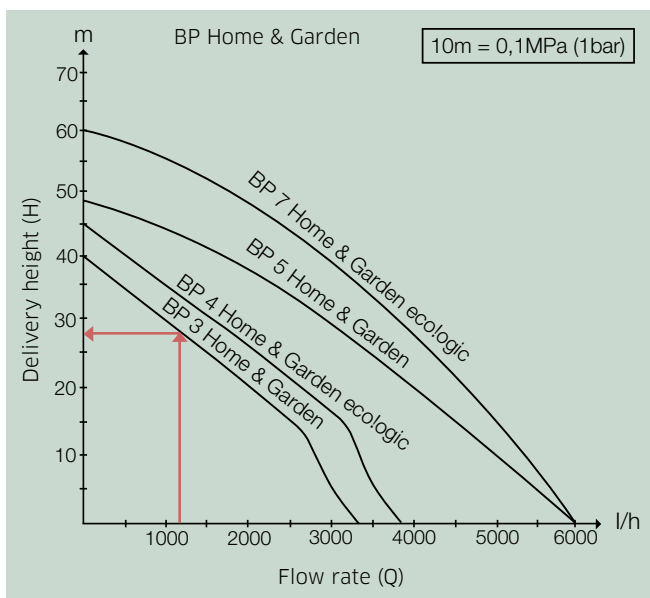
1. The suction height (HS) is the height difference from the lowest water level to the pump **(Example: the water level in the cistern is 4 m below the pump).**

2. The maximum pumping height (HF) is the height difference from the pump to the highest water supply point **(Example: 1 × toilet flushing cistern is on the second floor at a height of 5 m from the pump).**

3. Any value from 1.5 bar is usually sufficient for the minimum operating pressure (HW). This value must be converted into water column metres (0.1 bar = 1 m) **(Example: 1.5 bar × 10 = 15 m).**

4. Friction loss and resistance in the pipelines are factored in with a value of 15% (line resistance). **(Sample calculation: required delivery height of the pumps (H) = 4 m + 5 m + 15 m = 24 m + 15% = 27.6 m).**

*** See diagram at the top of the right hand page*

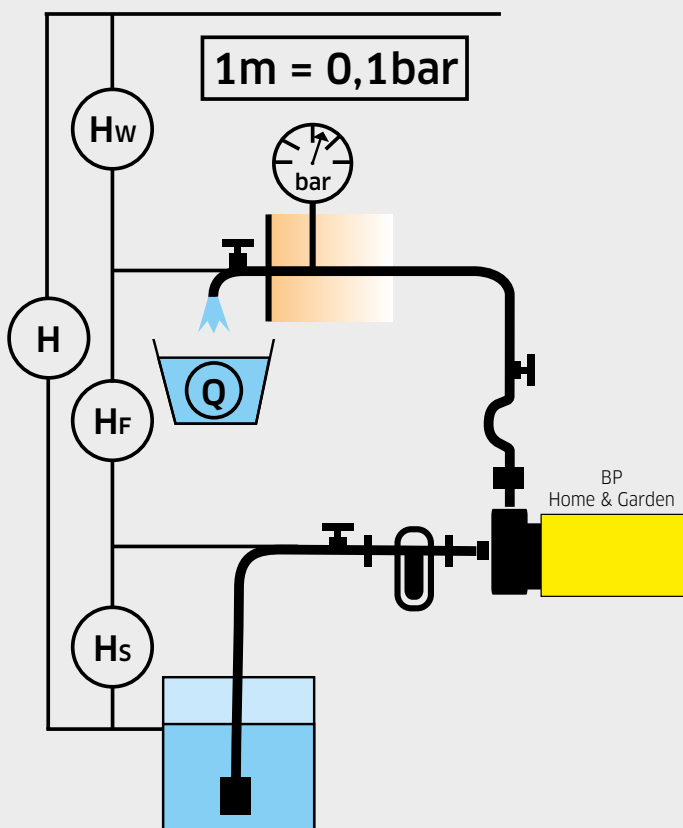


Sample calculation result:

For the above example, you must choose a pump that delivers at least 1,150 l/h with a 27.6 m delivery height. This value can be verified in the capacity characteristic curves (see the curve overview to the left).

- When the flow rate increases, the delivery height decreases
- Conversely, the flow rate decreases when the delivery height increases

Checking the pump performance curve shows that the power of the BP 3 Home & Garden is required for the selected example. If the system is to be extended at a later stage, we recommend choosing a high-performance pump to ensure that there is enough capacity in reserve.



$$Q = V1 + V2 + V... \times 50\%$$

Q = required flow rate of the pump

V1, V2, V... = points of use

50% = usage factor

$$H = (HS + HF + HW) + 15\%$$

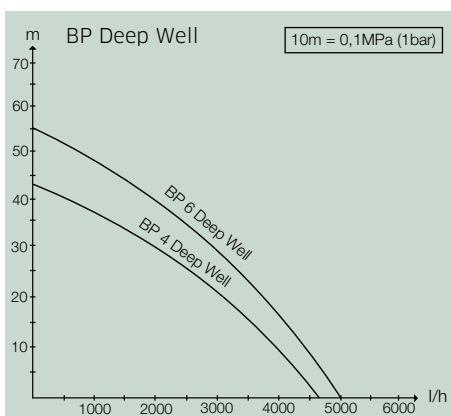
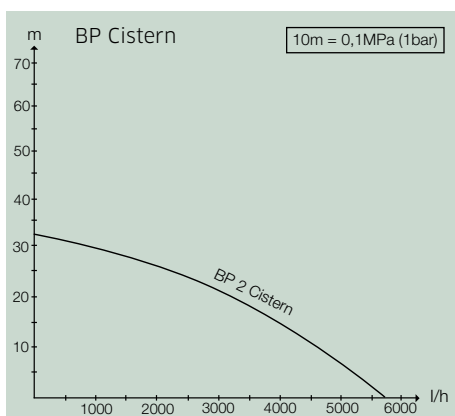
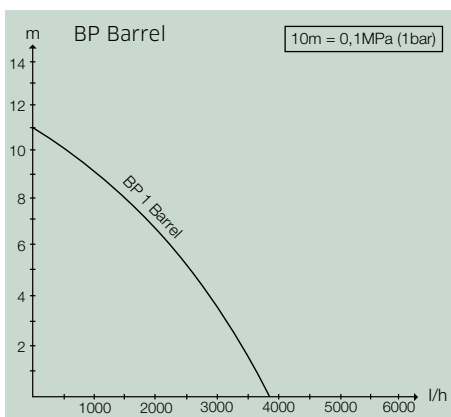
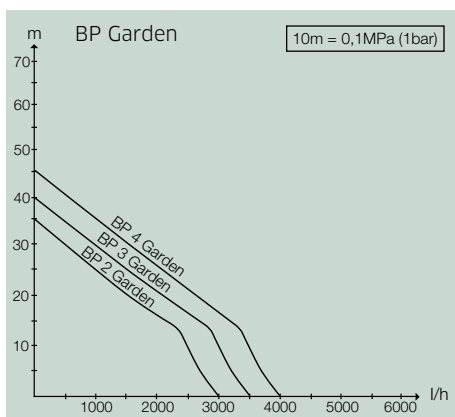
H = required delivery height of the pumps

HS = suction height

HF = pump height

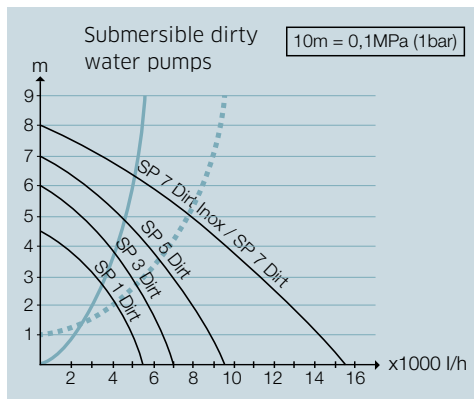
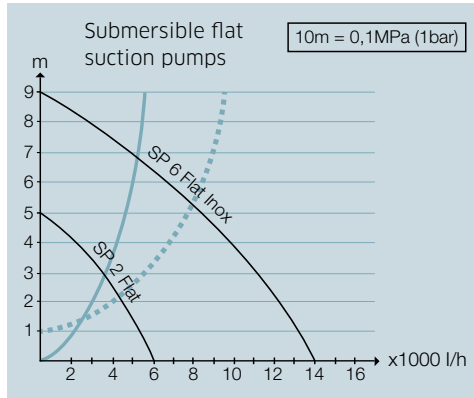
HW = Working pressure in water column metres (Wcm)

15% = Resistance in the pipelines, connections, etc.

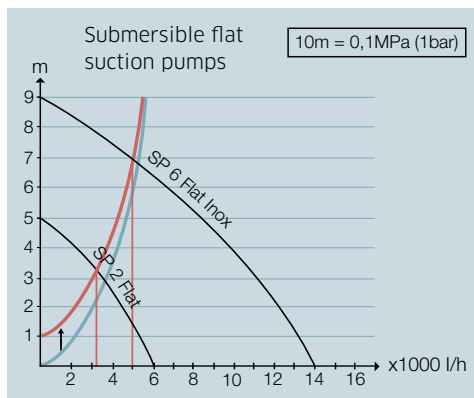


CALCULATION OF THE PUMP CAPACITY - SUBMERSIBLE PUMPS

The decisive criteria here are the flow rate and delivery pressure (= delivery height) required during application. You can use the calculated values to select the most appropriate pump from the pump performance curve.



— Curve for 1" PrimoFlex® hose
 - - - - - Curve for 1 1/4" fabric hose



— Curve for 1" PrimoFlex® hose
 — Shifted curve for the 1" PrimoFlex® hose

Example calculation for selecting the right submersible pump:

1. The choice of the correct pump depends entirely on the water volume, which can be calculated as follows:
 rectangular area: length × width × average depth (m) × 1,000 = basin capacity (l).
 circular area: diameter × diameter × average depth (m) × 0.78 × 1,000 = basin capacity (l).
(Example pool: 6 m × 3 m × 1 m × 1,000 = 18,000 l)

2. Choose a dirty water pump or a flat suction pump depending on the application area. The application overview on page 61 can help you to select the appropriate type of pump.
(Example: flat suction pump)

3. Consult the diagram that applies to you and use the pump curves and the curves for a 10 m-long 1" PrimoFlex® hose or a 10 m-long 1 1/4" fabric hose as a guideline, depending on what type of hose you would like to use.
(Example: 1" PrimoFlex® hose)

Sample calculation result:

At the points where the hose curve and the pump curve intersect, you can now simply read off the approximate corresponding flow rate. Divide the water volumes you calculated previously by the flow rate readings (you can find these on the horizontal axis). In this way you can find out the expected pump duration in hours.

If you need to account for a height difference* when evacuating water, simply shift the curve for the relevant hose upwards by the respective number of metres. **(Example: Max height difference = 1 m; curve must be shifted upwards by one metre on the vertical axis.)**

The point of intersection for the SP 2 Flat is around 3,200 l/h, and for the SP 6 Flat Inox around 5,000 l/h. This results in a pumping duration of around 5 ½ h with the SP 2 Flat. The SP 6 Flat Inox, on the other hand, would require only 3 ½ h and would therefore be the best solution for this application.

* Height difference between the water surface and the hose end

APPLICATION AREAS IN BRIEF

Applications	Booster pumps (BPs)				Submersible pumps							
	Garden	Home & Garden	Barrel	Deep Well	Cistern	Submersible dirty water pumps						
						SP 1 Dirt	SP 3 Dirt	SP 5 Dirt	SP 7 Dirt	SP 7 Dirt Inox	SP 2 Flat	SP 6 Flat Inox
Pump is underwater											■	■
Pump is kept dry												■
Permanent installation possible												■**
Water removal: Pumping from and circulating from												
Pond / swimming pond												
Flooding												
Small excavation (max. 100 m³)												
Washing machine leaks / Groundwater ingress												
Pool												
Drainage shaft												
Water source												
Min. 150 mm well / bore hole												
Min. 180 mm well / bore hole												
Water butt												
Cistern / tank												
Water usage												
Washing machine												
Toilet												
Watering the garden and cleaning work												
The pumps are not suitable for continuous circulation and continuous pump operation or for use with drinking water.												

*For this application, only a pressure switch (6.997-357.0) can be used. ** e.g. in drainage shafts.

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
U.S.A.

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

www.karcherna.com

United Kingdom

Kärcher (UK) Ltd.
Kärcher House
Beaumont Road
Banbury
Oxon OX16 1TB

Phone +44 1295-752-100
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

Southeast Asia

Regional Head Office
Southeast Asia

Kärcher South East Asia Pte. Ltd.
3 Depot Close #01-01
Singapore 109840

Phone +65 6897 18 11
Fax +65 6897 16 11

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

Kärcher 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

Kärcher 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
P.O. Box 11818
Vorna Valley, 1686

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

www.karcher.co.za

Dubai

Kärcher 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