Full power for the home and garden.

Pumps and watering systems – because every drop counts.









Sustainable top quality.

From the high-pressure pump to the premium sprayer – Kärcher watering products stand for top quality, trend-setting design and frugal water use. Kärcher watering systems are fully compatible with watering systems of all other major manufacturers.



Refined technology.

Kärcher's watering units ensure a completely automatic watering process. This makes watering by hand a thing of the past, leaving you more time to enjoy your garden or other leisure activities. A further advantage is that they use only the exact amount of water required. The sensor takes the current precipitation into account and deactivates the programmed cycle so water flows only when it is actually needed. This is good for the environment and it also saves you money.



Efficient pumps.

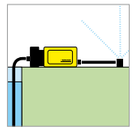
Kärcher garden pumps can use water from harvested sources to save resources while watering. In terms of energy consumption, the multistage hydraulics save 30 % in comparison to conventional jet garden pumps. Kärcher submersible pumps feature an intelligent IQ Level Sensor. An electronic sensor causes the pump to react immediately to water contact. And thanks to the adaptive pump rhythm, the pump adjusts itself to various conditions and switches on at precisely the right moment.



Ecological Sense.

Kärcher's intelligent and efficient technology as well as ideally matched products ensure the responsible use of natural resources.

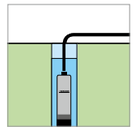
Watering pumps



Garden pumps



Drum pumps



Immersion pressure pumps

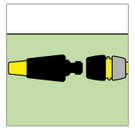
Watering systems



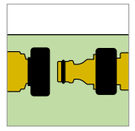
Sprayers and guns



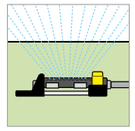
Garden showers and watering rods



Hose plug-in systems



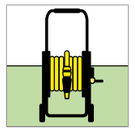
Brass line



Sprinklers



Hoses and stationary hose storage

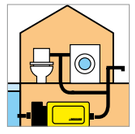


Hoses and mobile hose storage

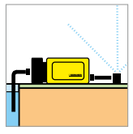


Watering units

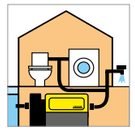
House water supply



House water dispenser

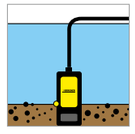


House water dispenser

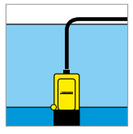


House water works

Watering pumps



Wastewater immersion pumps



Clear water immersion pumps



Water is our element.

As one of the world's leading manufacturers of high-pressure machines, Kärcher continuously sets new standards in technology and innovation. Kärcher's powerful and intelligent watering systems ensure precise and resource-conserving water distribution while combining Kärcher's high standard of quality with maximum convenience and sophisticated design.

Intelligent pumping and watering.

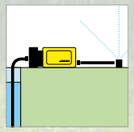
Kärcher's extensive range of watering products will make any garden enthusiast's pulse race. Perfectly matched pumps and watering products ensure the responsible handling of natural resources. Valuable water is used efficiently in an environmentally-friendly manner. Innovative technology and precise sensors guarantee that plants receive the precise amount of water they need to grow. Kärcher provides high-efficiency sprayers, spray guns, sprinklers, hoses, watering units, pumps, hose connection systems and storage systems for the unadulterated enjoyment of your garden in harmony with nature. Whether you want to water your garden, supply your house with inexpensive process water, or pump clear or dirty water – Kärcher has the right high-performance pump for every job. For example Kärcher submersible pumps feature an intelligent IQ Level Sensor. The pump reacts immediately to water contact thanks to the electronic sensor. The pump adjusts itself to various conditions and switches on at precisely the right moment thanks to the adaptive pump rhythm. Whichever Kärcher product you use, it is always the right choice.

Kärcher makes a difference.

Kärcher watering pumps:

Technology for a better future.

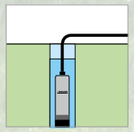
In order to make gardens really blossom, Kärcher has developed a high-quality and flexible line of pumps and watering products that provides ideal conditions for lush plant growth. Precise and innovative sensor technology ensures that the plants receive the exact amount of water they need. Kärcher garden pumps make it possible to use harvested water sources for resource-conserving watering. Using multi-stage hydraulics, the submersible pumps provide adequate pressure to take in well water, groundwater and spring water from deep under ground. And Kärcher barrel pumps make it easy to utilise natural rainwater from rain barrels to ensure efficient and environmentally friendly watering.



Garden pumps



Drum pumps



Immersion pressure pumps

Garden pumps – the small wide-range wonders.

The Kärcher garden pumps GP 60 and GP 70 Mobile Control are handy power packages with convenient remote control. They offer a programming function for the fully automatic watering of large areas. The powerful pumps are also ideal for water recovery from alternative sources such as cisterns or rain barrels



Use friendly
The large filler neck make it possible to prime the pump simply by filling it with water.



Foot operated switch
On/off switch without having to bend.



Everything remote-controlled
The GP 60/70 garden pump is equipped with a remote control that includes a programming function. This makes it possible to control the pump from the patio, for example.



Powerful
The GP 70 is the strongest pump in its class with 7.0 bar pressure. The advantage: several sprinklers can be run simultaneously; the lawn is watered in no time.



	GP 40	GP 45	GP 55	GP 60 Mobile Control	GP 70 Mobile Control
	■ Comfortable carry handle	■ Prefilter standard ■ Convenient foot switch ■ Easy priming	■ Prefilter standard ■ Convenient foot switch ■ Easy priming	■ Remote control, incl. programming function ■ Prefilter standard ■ Easy priming	■ Remote control, incl. programming function ■ Prefilter standard ■ The pump that is most capable of withstanding pressure in its class
Technical data					
Max. motor rating	**W**	650	850	1100	1300	1600
Max. flow rate**	**l/h**	3000	3800	4300	4500	5000
Delivery height / pressure max.	**m / bar**	36/3.6	43/4.3	49/4.9	55/5.5	70/7
Max. suction height	**m**	9	9	9	9	9
Pump travelling mechanism		Jet	Jet	Jet	Jet	Jet
Delivery temperature max.	**°C**	35	35	35	35	35
Weight without accessories	**Kg**	7.3	10.15	10.15	11.75	12.25
Dimensions (L x W x H)	**mm**	360x225x223	486x233x267	486x233x267	486x233x267	486x233x267
Connection thread		G1	G1	G1	G1	G1
Power cord H07RN-F	**m**	1.2	1.5	1.5	1.5	1.5
Equipment						
Comfortable carry handle		■	■	■	■	■
Optimised union		–	■	■	■	■
Convenient foot switch		–	■	■	■	■
Prefilter standard		–	■	■	■	■
Large filler neck		–	■	■	■	■
Remote control, incl. programming function		–	–	–	■	■
Pump connection adapter		■	–	–	–	–
Order no. EU I		**1.645-200.0**	**1.645-201.0**	**1.645-202.0**	**1.645-203.0**	**1.645-204.0**

■ Included in delivery package.
** Tip: The delivery rate of the pump depends on the pump height, the connected hoses and watering systems
By lowering the pump height or increasing the inside diameter of the connected hoses and watering systems, a higher water flow rate can be achieved.

Multistage garden pumps – quiet and efficient powerhouses.

Higher performance, higher efficiency, and quieter – the new Kärcher multistage garden pumps offer many con-vincing advantages. Through the use of several impellers, they manage the same flow rate with less motor performance than conventional jet garden pumps and thus save approximately 30 % energy.



In good standing
Even in a vertical position the multistage garden pumps give it their all – and can be stored in a minimum of space.



Practical double
The machines have two water outlets. This makes it possible to connect two hoses at the same time.



Perfectly protected
The built-in thermal protection secure the pump from over-heating.



Conveniently on the move
The GP 60 M5 is easy to move thanks to its practical trolley-handle.

30% ENERGIE SPAREN ENERGY SAVING

* Compared to Jet garden pumps, with relation to the volume of water pumped.

	GP 50 Multistage 4	GP 60 Multistage 5
	■ Upright storage ■ Two water outlets ■ Robust brass internal thread	■ Upright storage ■ Two water outlets ■ Robust brass internal thread ■ Extendable trolley-handle
Technical data		
Max. motor rating	**W**	1100	1400
Max. flow rate**	**l/h**	5000	6000
Delivery height / pressure, max.	**m / bar**	50/5	60/6
Max. suction height	**m**	8	8
Pump travelling mechanism		4-stage	5-stage
Delivery temperature, max.	**°C**	35	35
Weight without accessory	**Kg**	11.5	13
Dimensions (L x W x H)	**mm**	570x234x255	573x296x255
Connecting thread		G1	G1
Power cord H07RN-F	**m**	1.5	1.5
Equipment			
Stainless steel pump head body		■	■
Brass internal thread		■	■
Thermal protection		■	■
Upright storage		■	■
Extendable trolley-handle		–	■
Two water outlets		■	■
Pump connectors (3 pcs)		■	■
Cover for closing the second water outlet		■	■
Order no. EU I		**1.645-300.0**	**1.645-305.0**

■ Included in delivery package.
** Tip: The delivery rate of the pump depends on the pump height, the connected hoses and watering systems
By lowering the pump height or increasing the inside diameter of the connected hoses and watering systems, a higher water flow rate can be achieved.

You will find an extensive range of Kärcher original accessories on pages 38/39.

Water butt pumps – use and conserve resources.

Thanks to innovative barrel pumps with integrated on/off switch, you can water your garden conveniently, efficiently and inexpensively with rain water, which is rich in nutrients. The benefits are obvious. There is no need to lift heavy watering cans and no need to use expensive drinking water.



Simple and light
The ideal watering can replacement. With a water butt pump you can avoid straining your back and your wallet.



A perfect fit
Innovative water butt mounting clamp ensures maximum security and simple handling.



Practical and safe
On and off switch on the water butt mounting clamp helps save energy because the pump does not run constantly. There is no need to plug in and unplug the pump.



Innovative and convenient
Kärcher water butt pumps come with a convenient carrying handle, a length-adjustable hose, and a prefilter.









SBP 2200

- Flexible clamping device
- Prefilter standard

SBP 3800

- Flexible clamping device
- Prefilter standard
- On/Off switch integrated in the float switch

SBP 3800 Set

- Ideal set for garden beginners
- SBP 3800 with accessories: Spray gun 2.645-104, 15 m 1/2" PrimoFlex® hose, Universal hose connector 2.645-191.0, Universal hose connector with Aqua Stop 2.645-192.0

Technical data

Max. motor rating	**W**	350	400	400
Max. flow rate**	**l/h**	2200	3800	3800
Delivery height / pressure, max.	**m / bar**	11 / 1.1	11 / 1.1	11 / 1.1
Max. depth of immersion	**m**	8	8	8
Max. grain size	**mm**	1	1	1
Delivery temperature, max.	**°C**	35	35	35
Weight without accessory	**Kg**	4.1	4.2	4.2
Dimensions (L x W x H)	**mm**	172 x 137 x 266	172 x 137 x 266	172 x 137 x 266
Power cord H05RN-F	**m**	10	10	10

Equipment

Comfortable carry handle	■	■	■
Flexible barrel clamping device	■	■	■
Hose, adjustable length	■	■	■
Prefilter standard	■	■	■
Integrated on/off switch	–	■	■
Control and check valve	■	■	■
Simple definition of switching level	■	■	■
Watering accessories			■
Order no. EU I	**1.645-450.0**	**1.645-460.0**	**1.645-465.0**

■ Included in delivery package.
** Tip: The delivery rate of the pump depends on the pump height, the connected hoses and watering systems
By lowering the pump height or increasing the inside diameter of the connected hoses and watering systems, a higher water flow rate can be achieved.

Submersible pressure pumps – high performance at great depths.

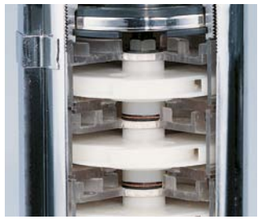
Kärcher submersible pressure pumps can be used to tap alternative water sources in order to conserve water when watering your garden. Their compact dimensions make them flexible and ideal for numerous applications. Using multi-stage hydraulics, the submersible pressure pumps provide adequate pressure to take in well water, groundwater and spring water from deep under ground.



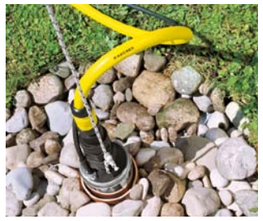
Robust
The standard steel stainless body makes Kärcher submersible pressure pumps extremely shock-proof and ensures a long life.



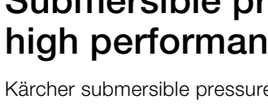
Convenient
The submersible pressure pump SPP 33 Inox can be easily carried due to its integrated handle.



Reliable
Kärcher submersible pressure pumps are highly resistant to sand and the effects of dry running.



Far reaching
The SPP 60 Inox uses high pressure to transport water from depths of up to 60 m.
The fastening rope included ensures a secure hold.





SPP 33 Inox

- Comfortable carry handle
- Stainless steel pump body



SPP 56 Inox

- Stainless steel pump body
- Extra compact dimensions: 98 mm
- 20 m lifting rope included



SPP 60 Inox

- Stainless steel pump body
- Extra compact dimensions: 98 mm
- 20 m lifting rope included

Technical data

Max. motor rating	**W**	850	800	1200
Max. flow rate**	**l/h**	6200	4800	6000
Delivery height / pressure, max.	**m / bar**	33 / 3.3	56 / 5.6	60 / 6
Max. depth of immersion	**m**	9	14	14
Pump travelling mechanism		3-stage	8-stage	8-stage
Diameter	**mm**	220	98	98
Delivery temperature, max.	**°C**	35	35	35
Weight without accessory	**Kg**	7.4	12	13
Dimensions (L x W x H)	**mm**	220 x 220 x 400	98 x 98 x 600	98 x 98 x 600
Connecting thread		G1¼	G1¼	G1¼
Power cord H07RN-F	**m**	10	15	15

Equipment

Stainless steel pump body	■	■	■
20 m lifting rope included	–	20 m	20 m
Built-in non-return valve	–	■	■
Comfortable carry handle	■	–	–
Pump connector	1", ¾", ½"	–	–
Simple definition of switching level	■	–	–
Order no. EU I	**1.645-400.0**	**1.645-401.0**	**1.645-402.0**

■ Included in delivery package.
** Tip: The delivery rate of the pump depends on the pump height, the connected hoses and watering systems
By lowering the pump height or increasing the inside diameter of the connected hoses and watering systems, a higher water flow rate can be achieved.

You will find an extensive range of Kärcher original accessories on pages 38/39.

Watering with a system –

and a clear conscience.

Sprayers, spray guns, sprinklers, watering rods and garden showers – Kärcher has the ideal solution for every need. For example our sprinklers are available with spikes for sloping surfaces or blades for flat surfaces. Our oscillating sprinklers feature a splash guard, water volume control and nozzle shut-off that provide convenience while preventing excessive water consumption. And our new garden shower can also be used as a watering rod for efficient watering. Every product can be easily connected with the new universal hose couplings. Just one click and the connection fits perfectly and firmly. Not a single drop of water is wasted.



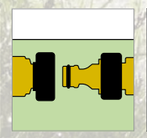
Sprayers and guns



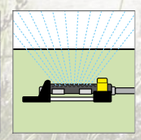
Garden showers and watering rods



Hose plug-in systems



Brass line



Sprinklers

Manual watering systems – spray nozzles and guns.



Only perfectly set spray patterns can ensure optimal watering. Kärcher guarantees the right solution for every need with a versatile range of spray guns, nozzles and lances. The spray patterns and water volumes can be set precisely to meet the needs of every plant, making sure that they are well taken care of. A positive result is that water wastage is almost completely prevented. The precious water ends up exactly where it should be in precisely the right amount. An accessory we especially recommend is the high-quality premium metal spray gun. The elegant spray gun is very robust, fits perfectly in your hand and makes garden work even more fun.

Handle
Soft handle and flexible trigger.



Premium spray gun
Flexible jet for all purposes.



Premium multifunctional spray gun
Four different spray patterns can be set, from shower jet to gentle spray mist.



Premium metal spray gun
Professional version: spray head and connector made of robust metal.



Spray gun Plus
The most important features include the continuously variable spray pattern setting and robust metal body.

product design award 2009



Premium metal spray gun

- Ergonomic one-hand operation
- Continuous regulation of the water flow
- Fine adjustment of spray pattern
- Automatic locking/unlocking with one finger
- Ergonomic handle
- Very robust and long service life



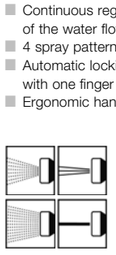
Premium spray gun

- Ergonomic one-hand operation
- Continuous regulation of the water flow
- Fine adjustment of spray pattern
- Automatic locking/unlocking with one finger
- Ergonomic handle



Premium multi-functional spray gun

- Ergonomic one-hand operation
- Continuous regulation of the water flow
- 4 spray patterns
- Automatic locking/unlocking with one finger
- Ergonomic handle





Spray gun Plus

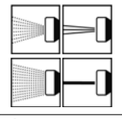
- Spray pattern adjustable from full jet to mist
- Robust metal body
- Shock-proof and non-sliding
- Continuous regulation and setting of the water quantity

Spray guns and nozzles				
Order no. Blister (PU)[1)]	2.645-046.0 (6 pcs)	2.645-045.0 (10 pcs)	2.645-047.0 (10 pcs)	2.645-048.0 (6 pcs)
Order no. Loose (PU)[1)]	–	–	–	2.645-069.0 (15 pcs)



Multi-functional spray gun Plus

- 4 spray patterns
- Robust metal body
- Shock-proof and non-sliding
- Continuous regulation and setting of the water flow





Spray gun

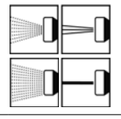
- Spray pattern adjustable from full jet to mist
- 3-stage water flow regulation
- Storage hook





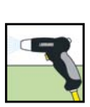
Multifunctional spray nozzle

- Single-handed regulation of the water flow
- 4 spray patterns



Spray guns and nozzles			
Order no. Blister (PU)[1)]	2.645-049.0 (6 pcs)	2.645-105.0 (10 pcs)	2.645-051.0 (6 pcs)
Order no. Loose (PU)[1)]	–	2.645-104.0 (20 pcs)	2.645-070.0 (10 pcs)

[1)] PU = packing unit.
G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; hose inner diameter: 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.





Nozzle

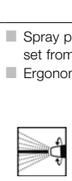
- Spray pattern can be set from hard to soft





Nozzle Plus

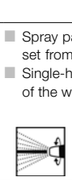
- Spray pattern can be set from hard to soft
- Ergonomically shaped handle





Spray nozzle

- Spray pattern can be set from hard to soft
- Single-handed regulation of the water flow





Premium spray gun connection kit

- Premium metal spray gun 2.645-046.0
- **NEW:** Premium universal hose connector with Aqua Stop 2.645-196.0



Spray gun set Plus

- Spray gun Plus 2.645-048.0
- Tap adaptor G3/4 with G1/2 reducer 2.645-006.0
- Universal hose connector Plus 2.645-193.0
- **NEW:** Universal hose connector Plus with Aqua Stop 2.645-194.0



Spray gun set

- Spray gun 2.645-105.0
- Tap adaptor G3/4 with G1/2 reducer 2.645-006.0
- **NEW:** Universal hose connector 2.645-191.0
- **NEW:** Universal hose connector with Aqua Stop 2.645-192.0



Spray nozzle connection set

- Spray nozzle 2.645-050.0
- **NEW:** Universal hose connector Plus with Aqua Stop 2.645-194.0



Nozzle set

- Nozzle 2.645-053.0
- Tap adaptor G3/4 with G1/2 reducer 2.645-006.0
- **NEW:** Universal hose connector 2.645-191.0
- **NEW:** Universal hose connector with Aqua Stop 2.645-192.0

Spray guns and nozzles				
Order no. Blister (PU)[1)]	2.645-110.0 (8 pcs)	2.645-109.0 (8 pcs)	2.645-111.0 (8 pcs)	2.645-123.0 (8 pcs)
Order no. Loose (PU)[1)]	–	–	–	–

[1)] PU = packing unit.
G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; hose inner diameter: 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

Fun in the garden for the whole family.



Both people and plants need to cool off on hot summer days. Any garden can become a refreshing oasis with our new garden showers and spray lances! Kärcher's practical showering rod not only provides sparkling refreshment, but it is also ideal for watering plants. A stable tripod keeps the easily set up garden shower upright, and when disassembled the shower can be stored in a compact space. The ergonomic Kärcher premium spray lance is a masterpiece of perfection and comfort. Its versatile applications make it a universal all-rounder.



Garden shower

- Set up within 3 minutes
- Includes tripod and spike
- Height can be adjusted between 1,50 – 2,20 m
- Detachable shower and spray lance (2-in-1)
- Wide shower stream
- Water flow rate controlled by one hand plus on / off function
- Mobile spray head (180°)
- Convenient and space-saving storage



Wall bracket

- Spray lances can be fixed in place to be used as a garden shower
- Can also be used on interior walls for storing spray lances and other tubes (tube diameter 16 – 20 mm)
- Includes anchors and screws

Garden shower and wall bracket

Order no. Blister (PU)[1]	2.645-181.0 (3 pcs)	2.645-182.0 (6 pcs)



Garden shower display

- Ideal for secondary placements
- Includes 16 garden showers
- Folding side with attention-grabbing image of shower in use
- Space-saving design for setting up along walls and in aisles
- Quickly set up
- Includes application photos and product information

Garden shower display

Order no. Display	2.645.183.0 (16 pcs)

[1] PU = packing unit.

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.



For all sizes
The height of the shower is conveniently adjustable at the touch of a button between 1.50 m and 2.20 m.



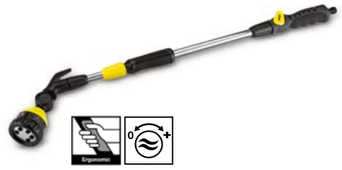
Clean and tidy
Whenever the shower is not being used, for example in winter, it can be quickly and easily disassembled and pieced together to save space.



Cleverly convertible
The watering rod can be instantly converted into a garden shower when used with the wall bracket.



Premium spray lance
The convenient solution for universal applications – from watering the ground to watering above your head.



Premium spray lance

- To water flower/vegetable beds, pots, and hanging baskets
- Stepless water flow regulation (0-max) ergonomic operation with one finger
- 6 spray patterns
- Flexible spray head angle (180°)
- Compact storage on open hook
- Telescopic lance (70-105 cm)



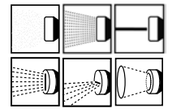
Spray lance Plus

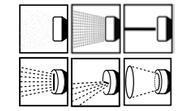
- To water flower/vegetable beds, pots, and hanging baskets
- Stepless water flow regulation (0-max) ergonomic operation with one finger
- 6 spray patterns
- Flexible spray head (180°)
- Compact storage on open hook

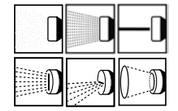


Spray lance

- To water flower/vegetable beds and pots
- Stepless water flow regulation (0-max) ergonomic operation with one finger
- 6 spray patterns







Spray lances

Order no. Blister (PU)[1]	2.645-137.0 (8 pcs)	2.645-158.0 (8 pcs)	2.645-157.0 (8 pcs)



Premium spray lance display

- Ideal for secondary placements
- Includes 32 x premium spray lances
- Space-saving oval design for setting up along walls and in aisles
- Quickly set up
- 4 compartments for loose items (max. 150 pcs)
- Includes application photos and product information



Spray lance Plus display

- Ideal for secondary placements
- Includes 32 x premium spray lances plus
- Space-saving oval design for setting up along walls and in aisles
- Quickly set up
- 4 compartments for loose items (max. 150 pcs)
- Includes application photos and product information



Spray lance display

- Ideal for secondary placements
- Includes 32 x spray lances
- Space-saving oval design for setting up along walls and in aisles
- Quickly set up
- 4 compartments for loose items (max. 150 pcs)
- Includes application photos and product information

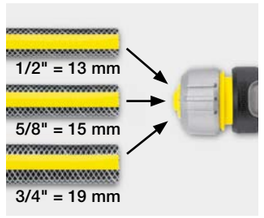
Spray lance displays

Order no. Display	2.645-154.0 (32 pcs)	2.645-160.0 (32 pcs)	2.645-159.0 (32 pcs)

[1] PU = packing unit.

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 coupling. Three diameters.



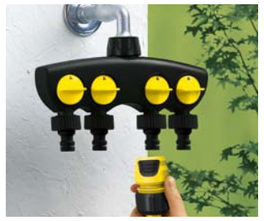
All of Kärcher's specially leak-proof hose connectors are compatible with hose diameters of 1/2", 5/8" and 3/4". The universal hose connectors also provide excellent stability as well as maximum tensile and breaking strength. The connectors are available with or without Aqua Stop. The Premium universal hose connector is equipped with a hose holder made of aluminium and recessed handles made of soft plastic for easy handling. All Kärcher plug systems are compatible with standard click-on systems.



Aqua Stop
For safely disconnecting hose and connector without splashing.



Moulded grip surface
Convenient grip surfaces for easy connecting and disconnecting.



Tap adaptor with 4 outlets
High-quality tap adaptor with 4 outlets, four independent regulators and robust metal body.



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





Premium Universal hose coupling
- Robust hose connector made of aluminium
- Recessed handles made of soft plastic for easy handling

Premium Universal hose coupling with Aqua Stop
- Robust hose connector made of aluminium
- Recessed handles made of soft plastic for easy handling
- Disconnect without splashing thanks to Aqua Stop

Universal hose coupling Plus
- Recessed handles made of soft plastic for easy handling

Universal hose coupling Plus with Aqua Stop
- Recessed handles made of soft plastic for easy handling
- Disconnect without splashing thanks to Aqua Stop

Universal hose connector
- Ergonomic design for easy handling

Connectors					
Order no. Blister (PU)[1]	2.645-195.0 (15 pcs)	2.645-196.0 (15 pcs)	2.645-193.0 (15 pcs)	2.645-194.0 (15 pcs)	2.645-191.0 (15 pcs)
Order no. Loose (PU)[1]	–	–	2.645-203.0 (25 pcs)	2.645-204.0 (25 pcs)	2.645-201.0 (25 pcs)



Universal hose connector with Aqua Stop
- Ergonomic design for easy handling
- Disconnect without splashing thanks to Aqua Stop

Universal hose mender
- Universal use for all standard garden hoses
- Ergonomic design for easy handling
- To connect or to repair 2 hoses

Control valve
- Universal for all standard garden hoses
- For controlling the flow rate
- Includes 2-way connector
- For connecting between hose and sprinkler or two hoses

Tap adaptor G3/4 with G1/2 reducer
- Very robust
- Reducer permits connection of 2 thread sizes

Tap adaptor G3/4 with G1/2 reducer
- Very robust
- Reducer permits connection of 2 thread sizes
- Ideal for connection to Kärcher garden pumps

Connectors					
Order no. Blister (PU)[1]	2.645-192.0 (15 pcs)	2.645-197.0 (15 pcs)	2.645-198.0 (15 pcs)	2.645-006.0 (15 pcs)	2.645-007.0 (15 pcs)
Order no. Loose (PU)[1]	2.645-202.0 (25 pcs)	2.645-207.0 (25 pcs)	2.645-208.0 (15 pcs)	2.645-065.0 (25 pcs)	2.645-066.0 (25 pcs)

[1] PU = packing unit.

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.





Tap adapter for in-house fittings
- Permits connection of a garden hose to in-house fitting
- Robust fit due to internal thread made of brass
- Thread protection for easy locking

Twin tap connector
- 2 separately adjustable water outlets
- Ideal for the connection of two hoses to a single tap with G3/4-thread

Tap adaptor with 4 outlets
- Tap connection for taps with G1 thread and G3/4 reducer
- Permits simultaneous supply to 4 hoses
- 4 separate regulators
- Robust brass internal thread
- With 4 tap adaptors

2-way connector
- For connection of 2 hoses
- Robust design

3-way connector
- For connection of 2 hoses
- Robust design

Schlauchstecksysteme					
Order no. Blister (PU)[1]	2.645-010.0 (15 pcs)	2.645-097.0 (10 pcs)	2.645-012.0 (3 pcs)	2.645-008.0 (15 pcs)	2.645-009.0 (15 pcs)
Order no. Loose (PU)[1]	–	–	–	2.645-067.0 (25 pcs)	2.645-068.0 (25 pcs)



Tool connector G1/2 I G3/4
- For connection of e.g. sprinklers with inner thread or similar equipment and hose connectors

Gasket set
- 3 gaskets (2x for G3/4, 1x for G1)
- 1 pre-filter for G3/4 tap adaptors

O-ring set
- 6 gaskets (4x 10.8 x 2.6 mm, 1x 15.9 x 2.6 mm, 1x 17.1 x 2.6 mm)
- 1 sprinkler filter

Counter display
- Appealing, space-saving presentation box with product information and system overview
- **NEW:** 16 x 2.645-193;
  NEW: 16 x 2.645-194;
  NEW: 16 x 2.645-197; 12 x 2.645-006; 8 x 2.645-007; 20 x 2.645-008; 12 x 2.645-009; 5 x 2.645-048; 4 x 2.645-051; 20 x 2.645-053

Schlauchstecksysteme				
Order no. Blister (PU)[1]	2.645-098.0 I -099.0 (15 pcs)	2.645-073.0 (15 pcs)	2.645-074.0 (15 pcs)	2.645-061.0 (1 pcs)
Order no. Loose (PU)[1]	–	–	–	–

[1] PU = packing unit.

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 was specially developed for demanding garden jobs. The robust products feature top-quality machining and exemplary service lives. The brass line not only meets Kärcher's demands for high-quality, but it also uses materials in an environmentally friendly manner in order to prevent waste.

Plastic ring
Comfortable handle thanks to soft plastic ring.



Oscillating sprinklers
Infinitely adjustable range of spray up to max. 320 m².



Convenient adjustment
The splash guard protects you from getting wet when arranging the sprinklers.



Stay dry
While protected from getting wet, you can conveniently set the sprinkling area and water flow rate.



Adjustable width of spray
The sprinkling width can be adjusted by switching off the nozzles.





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

- High-quality brass hose connector
- Ergonomic rubber ring at handle for easy handling and improved fastening
- Suitable for 1/2" and 5/8" hoses



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

- High-quality brass hose connector
- Ergonomic rubber ring at handle for easy handling and improved fastening
- Disconnect without splashing thanks to Aqua Stop



Brass hose connector, 3/4"

- High-quality brass hose connector
- Ergonomic rubber ring at handle for easy handling and improved fastening
- Suitable for 3/4" hoses



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

- High-quality brass hose connector
- Ergonomic rubber ring at handle for easy handling and improved fastening
- Disconnect without splashes thanks to Aqua Stop



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

- For the connection of hoses with 1/2" and 5/8" (2.645-102.0) or 3/4" (2.645-103.0) internal diameter
- To repair damaged hoses or to extend hoses
- Made of robust brass

Brass line

Order no. Blister (PU)[1]	2.645-015.0 (10 pcs)	2.645-017.0 (10 pcs)	2.645-016.0 (10 pcs)	2.645-018.0 (10 pcs)	2.645-102.0 I -103.0 (10 pcs)



Brass 2-way connector

- For connection of two hoses or hose extension
- Made of robust brass



Brass 3-way connector

- For connection of 3 hoses
- Permits laying out 2 separate hose lines
- Made of robust brass



Brass tap adaptor G1 with G3/4 reducer

- High-quality tap adaptor made of brass
- Ergonomic rubber ring handle for easy handling and improved fastening
- Reducer permits connection of 2 thread sizes



Brass tap adaptor G1

- High-quality tap adaptor made of brass
- Ergonomic rubber ring at handle for easy handling and improved fastening



Brass nozzle

- Rubber ring for easy handling
- Spray pattern adjustable from hard to soft



Brass line

Order no. Blister (PU)[1]	2.645-100.0 (10 pcs)	2.645-101.0 (10 pcs)	2.645-013.0 (10 pcs)	2.645-014.0 (10 pcs)	2.645-054.0 (10 pcs)

[1] PU = packing unit.
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 sprinklers OS 5.320 SV

- Adjustable range of spray
- Long lasting gearbox with protection against dirt
- With splash guard for convenient adjustment
- Adjustable water flow (0 – max)
- Max. area coverage[2] 320 m²
- Adjustable width of spray



Oscillating sprinklers OS 5.320 S

- Adjustable range of spray
- Long lasting gearbox with protection against dirt
- With splash guard for convenient adjustment
- Adjustable water flow (0 – max)
- Max. area coverage[2] 320 m²



Oscillating sprinklers OS 3.220

- Adjustable range of spray
- Long lasting gearbox with protection against dirt
- Max. area coverage[2] 220 m²



Pulse, circular and sector sprinklers PS 300

- Watering areas of 30 – 360°
- Adjustable width of spray, e.g. for watering under trees
- Robust spike for uneven or sloping ground
- Max. area coverage[2] 706 m²

Sprinklers

Area coverage	Length m	Width m	m²	Length m	Width m	m²	Length m	Width m	m²	Ø in m	m²
At 2 bar	5-16	5-12	25-190	5-16	12	60-190	5-14	9	45-120	25	490
At 4 bar	6-20	6-16	36-320	6-20	16	100-320	6-17	13	80-220	30	706
Spray patterns											
Order no. (PU)[1]	2.645-135.0 (6 pcs)			2.645-134.0 (6 pcs)			2.645-133.0 (6 pcs)			2.645-023.0 (6 pcs)	



Rotating sprinkler RS 130/3

- Robust metal arms
- Max. sprinkling area[2] 133 m²



Rotating sprinkler RS 120/2

- Adjustable spray angle
- Max. sprinkling area[2] 113 m²



Circular sprinkler CS 90 Spike I CS 90 Vario

- Robust spike for uneven or sloping surface
- Max. sprinkling area[2] 64 m²
- Additional adapter for the irrigation of rectangular areas (CS 90 Vario)



Multi-functional surface sprinkler MS 100, 6-pattern

- Several different watering forms through 6 different nozzle shapes
- Wall bracket
- Max. sprinkling area[2] 78 m²

Sprinklers

Area coverage	Ø in m	m²	Ø in m	m²	Ø in m	m²	Ø in m	m²
At 2 bar	11	95	8	50	9	64	8,4	55
At 4 bar	13	133	12	113	9	64	10	78
Spray patterns								
Order no. (PU)[1]	2.645-019.0 (8 pcs)		2.645-020.0 (8 pcs)		2.645-024.0 I -025.0 (10 pcs)		2.645-026.0 (8 pcs)	

[1] PU = packing unit. [2] All data for the sprinkling area are related to a system pressure of 4 bar.
G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; hose inner diameter: 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

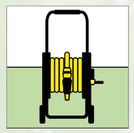
Kärcher watering systems:

for your dream garden.

Kärcher has developed an innovative watering system that achieves excellent results so you can make your garden a pleasant oasis of relaxation with little effort. The flow of water automatically starts and stops at precisely the time set thanks to the sophisticated technology of Kärcher's watering units. Manual programming is quick and uncomplicated. The sensor takes the current precipitation into account and deactivates the programmed cycle if necessary. This means that water only flows when needed, which saves money and protects the environment.



Hoses and stationary hose storage



Hoses and mobile hose storage



Watering units

The new freedom of mobility.



More mobility, less pulling and tugging. Kärcher's new hose trolleys make garden work a lot easier. At last there is no need to pull the hose through your garden. Instead it is conveniently transported by the hose trolley from A to B. Obstacles are easily and quickly avoided. Simply uncoil the hose and let it lay on the ground along the path to the trolley. The long section of the hose is connected to the water tap, while the shorter section is used for watering. The result: the hose trolley remains stable and damage is prevented.



Mobile with style
Simply put short hose on the hook, store accessories directly on the trolley and conveniently move the hose trolley to the location of watering.



More mobility
No more laborious pulling on the hose: With the new hose trolley obstacles can be bypassed easily and elegantly.



Compact comfort
The new Kärcher hose trolleys can be stowed in a particularly space-saving way.



Always ready at hand
No mess, no troublesome searching: The new hose hangers and reels offer sufficient stowage room for your garden accessories.





Metal hose trolley HT 80 M

- Made of robust, corrosion-resistant steel
- Non-slip, ergonomic handle
- Height-adjustable handle
- Hose guide and free-wheeling crank
- Angled hose connection to prevent bending of the hose
- 2 universal hose connectors Plus (2.645-003.0)



Metal hose trolley HT 80 M/Kit

- Like hose trolley HT 80 M
- With 20 m 1/2" PrimoFlex® Plus hose 2.645-144.0, spray gun Plus 2.645-048.0, 4 universal hose connectors Plus (3x 2.645-193.0, 1x2.645-194.0), 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 pcs)	2.645-043.0 (1 pcs)



Hose trolley HT 4.500

- Non-slip, ergonomic handle
- Height adjustable handle
- Foldable for space-saving stowage
- Angled hose connector
- Accessory holder for spray lance or sprayers while connected to the hose
- Increased mobility through stowing hook for short hose
- 2 hose connectors
- Fully assembled



Hose trolley HT 4.520 Kit

- Like HT 4.500
- With 20 m 1/2" PrimoFlex® hose, Nozzle Plus (2.645-177.0), 3 hose connectors, 1 hose connector with Aqua Stop, and G3/4 tap adaptor with G1/2 reducer
- Fully assembled



Hose trolley HT 4.520 Kit

- Like HT 4.500
- With 20 m 5/8" PrimoFlex® hose, Nozzle Plus (2.645-177.0), 3 hose connectors, 1 hose connector with Aqua Stop, and G3/4 tap adaptor with 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 pcs)	2.645-168.0 (6 pcs)	2.645-169.0 (6 pcs)

[1] PU = packing unit.

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.





Hose trolley HT 3.400

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



Hose trolley HT 3.420 Kit

- Height adjustable handle
- Foldable for space-saving stowage
- With 20 m 1/2" PrimoFlex®hose, Nozzle Plus (2.645-177.0), 3 hose connectors, 1 hose connector with Aqua Stop, and G3/4 tap adaptor with G1/2 reducer
- Fully assembled



Hose trolley HT 3.420 Kit

- Height adjustable handle
- Foldable for space-saving stowage
- With 20 m 5/8"-Primo Flex® hose, Nozzle Plus (2.645-177.0), 3 hose connectors, 1 hose connector with Aqua Stop, and G3/4 tap adaptor with 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. 20 m	Max. 20 m	Max. 20 m
Order no. (PU)[1]	2.645-180.0 (6 pcs)	2.645-166.0 (6 pcs)	2.645-167.0 (6 pcs)



Promotion pallet hose trolley HT 3.420 kit 1/2"

- 18 x hose trolley HT 3.420 kits with 20 m 1/2" PrimoFlex® hoses and accessories (2.645-166.0) on a pallet
- 2 attention-grabbing placards with application illustrations and product information
- Fully assembled



Promotion pallet hose trolley HT 3.420 Kit 5/8"

- 18 x hose trolley HT 3.420 kits with 20 m 5/8" PrimoFlex® hoses and accessories (2.645-167.0) on a pallet
- 2 attention-grabbing placards with application illustrations and product information
- Fully assembled

Mobile hose storage		
Order no. Display	**2.645-172.0** (18 pcs)	**2.645-173.0** (18 pcs)

[1] PU = packing unit.

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.

Perfect hose storage.



With Kärcher's practical storage systems tangled hoses and trip hazards are a thing of the past. You can neatly stow away hoses while maintaining quick access to them. An example of a premium hose box is the CR 7.220 Automatic, this hose box has uniform automatic hose retraction, integrated angle adjustment and a swivelling range of 180°. The compact hose box CR 3.110 comes with a thin 10 m hose, which is ideal for watering on balconies and roof terraces. The CR 3.110 Balcony hose box can be connected to in-house water taps thanks to the compatible tap connection for interior fittings.



Functional & discreet
Neat and compact storage. The extra flat wall bracket is very discreet. The CR 7.220 Automatic can be securely attached and later removed.



Conveniently adjustable
Thanks to the swivel stop, the swivelling range of the CR 7.220 Automatic is reduced to 30° intervals. Preventing damage.



Cleverly packed
The CR 3.110 Balcony, which features an intelligent storage concept for a sprayer and supply hose, ensures that not a single drop is lost on the way to your balcony.



Splendidly compact
The CR 3.110 Balcony is incredibly easy to transport thanks to its light weight and compact dimensions, making it ideal for your balcony.



Premium CR 7.220 Automatic hose box

- With automatic hose retraction
- Smooth hose winding
- Flat, space-saving wall bracket
- Pivots 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" hoses, sprayer plus (2.645-177.0), 1 hose connector, 1 hose connector with Aqua Stop, G3/4 tap connection and G1/2 reducer
- Convenient accessory storage
- Fully assembled



Compact CR 3.110 Balcony hose box

- First hose drum for watering on balconies, roof terraces and small gardens
- Ideal as a supply hose for the balcony cleaner K 2.200 Balcony
- Takes up little storage space at home
- No stains or water leakage in your home
- Convenient and quick winding and unwinding
- Supply hose and accessories can be stored directly on the hose box
- Includes 10 plus 2 m high-quality, phthalate-free hoses, sprayer plus (2.645-177.0), 2 hose connectors with Aqua Stop for disconnecting without spraying, G3/4 tap connection and G1/2 reducer, flat wall bracket and connectors for exterior and interior water taps
- Fully assembled

Stationary hose storage

Schlauchkapazitäten	1/2" (13 mm) = Max. 20 m	5/16" (8 mm) = Max. 10 m
Bestell-Nr. (VE)[1]	2.645-218.0 (1 pcs)	2.645-210.0 (4 pcs)
Order no. Display	–	2.645-218.0 (18 pcs)



Display for CR 3.110 Balcony hose box

- Ideal for secondary placements (1/4 pallet)
- Attention-grabbing balcony image
- Universal pallet corner printed on both sides
- Includes 18 x CR 3.110 Balcony hose boxes

Stationary hose storage

Order no. Display	**2-645-211.0** (18 pcs)

[1] PU = packing unit.
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.



Premium hose reel HR 7.300

- Practical and space-saving hose storage
- Storage for spray guns and nozzles
- Spacious storage box for garden gloves, shears, shovels, etc.
- Accessory holder for spray lance or sprayers while connected to the hose
- Removable hose drum (2 in 1)
- With wall bracket and 2 hose connectors
- Fully assembled



Premium hose reel HR 7.315 Kit

- Like hose reel HR 7.300
- With wall bracket, 15 m 1/2" PrimoFlex® hose, Nozzle Plus (2.645-177.0), 3 hose connectors, 1 hose connector with Aqua Stop, and G3/4 tap adaptor with G1/2 reducer
- Fully assembled



Premium hose reel HR 7.315 Kit

- Like hose reel HR 7.300
- With wall bracket, 15 m 5/8" PrimoFlex® hose Nozzle Plus (2.645-177.0), 3 hose connectors, 1 hose connector with Aqua Stop, and G3/4 tap adaptor with 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 pcs)	2.645-164.0 (1 pcs)	2.645-165.0 (1 pcs)



Premium hose hanger with box

- Practical and space-saving hose storage
- Storage for spray guns and nozzles
- Storage case for tap adapters, connectors, and garden gloves
- Additional storage box for garden shears and other garden tools



Hose hanger Plus

- Practical and space-saving hose storage
- Storage for spray guns and nozzles
- Storage case for tap adapters, connectors, and garden gloves



Hose hanger

- Robust design
- Easy mounting on the wall
- Practical and space-saving with storage for spray guns and nozzles
- For all known garden hoses



Connection set

- For the connection of the hose trolley and reels to the water tap
- Suitable for all available products
- Tap adaptor G3/4 with G1/2 reducer (2.645-006.0)
- 2 Universal hose connectors (2.645-095.0)
- 1.5 m 5/8"-KEVLAR® hose

Stationary hose storage

Order no. (PU)[1]	2.645-162.0 (4 pcs)	2.645-161.0 (4 pcs)	2.645-044.0 (10 pcs)	2.645-122.0 (5 pcs)

[1] PU = packing unit.
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.

100 % phthalate- and heavy metal-free.



Kärcher's new PrimoFlex® quality hoses contain no softeners that are hazardous to your health. They are characterised by extreme durability, flexibility and kink-resistance and are optimised in terms of function and handling. The integrated yellow DuPont™ Kevlar® fibres are an unmistakable feature of our PrimoFlex® Premium and PrimoFlex® Plus hoses that underscore their sturdiness and high-quality.



PrimoFlex® Premium

- For the demanding garden enthusiast
- Harmless to health phthalate-free quality garden hose
- Resistant to high pressures due to patented double reinforcement: knit fabric and canvas with innovative yellow KEVLAR® fibre from DuPont™
- 5 layers
- Weather resistant anti-UV outer layer
- Opaque middle layer prevents algae formation in the hose
- Extremely flexible and resistant to kinks and twisting
- Bursting pressure 50 bar[3]
- High temperature resistance from –20 to +65 °C
- Cadmium-free, barium-free and lead-free
- 18-year warranty



PrimoFlex® Plus

- For the sophisticated garden enthusiast
- Harmless to health phthalate-free quality garden hose
- Extremely robust, flexible and kink-proof hose
- Canvas with innovative yellow DuPont™ KEVLAR® fibres
- 3 layers
- Opaque inner layer prevents algae formation in the hose
- Bursting pressure 45 bar[3]
- High temperature resistance from –20 to +65 °C
- Cadmium-free, barium-free and lead-free
- 15-year warranty

Hoses

Internal 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]		2.645-150.0 (1 pcs)	2.645-151.0 (1 pcs)	2.645-152.0 (1 pcs)	2.645-153.0 (1 pcs)		2.645-144.0 (1 pcs)	2.645-145.0 (1 pcs)	2.645-146.0 (1 pcs)	2.645-147.0 (1 pcs)	2.645-148.0 (1 pcs)	2.645-149.0 (1 pcs)



PrimoFlex® hose

- Handy garden hose with pressure-resistant weaved reinforcement
- Harmless to health phthalate-free quality garden hose
- 3 layers
- Weather resistant anti-UV outer layer
- Opaque middle layer prevents algae formation in the hose
- Bursting pressure 24 bar[3]
- High temperature resistance from –20 to + 65 °C
- Cadmium-free, barium-free and lead-free
- 12-year warranty



Spiral Hose Set | Spiral Hose Starter Set, 10 m

- Ideal to water plants in smaller gardens, on balconies, terraces, or camping sites
- 10 m Spiral hose, phthalate-free, kink- and UV-resistant
- Multifunctional spray gun with 4 spray patterns
- Spiral hose connector with kink-protection
- Spiral hose connector with kink-protection and Aqua Stop
- Tap adapter G3/4
- Tap adapter for inhouse fittings (only 2.645-178.0)
- Convenient storage on wall bracket (only 2.645-178.0)

Hoses

Internal diameter		1/2"		5/8"		3/4"		5/16"
Length		20 m	50 m	25 m	50 m	25 m	50 m	10 m
Weight	g/m	110	110	145	145	220	220	
Order no. (PU)[1]		2.645-138.0 (1 pcs)	2.645-139.0 (1 pcs)	2.645-140.0 (1 pcs)	2.645-141.0 (1 pcs)	2.645-142.0 (1 pcs)	2.645-143.0 (1 pcs)	2.645-178.0 I 2.645-179.0 (3 pcs)

[1] PU = packing unit. [2] Kevlar® is a registered trademark by E.I. du Pont de Nemours and Company. [3] Specification refers 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: 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.



Hose hanger

Practical hose hanger for wall mounting.



Hose kits

Ideal for garden watering – and as water supply for high-pressure cleaning.



Watering unit WU 60/2 sun

UV sensor for automatic watering at sunrise.



Rain sensor

Watering on demand. Once a specific water level is reached in the collection tank, the rain sensor interrupts the watering cycle automatically.



Hose set, 20 m

- Ideal start-up set
- 20 m 1/2" PrimoFlex® hose
- Spray gun 2.645-105.0
- G3/4 tap adaptor with G1/2 reducer 2.645-006.0
- **NEW:** Universal hose connector 2.645-191.0
- **NEW:** Universal hose connector with Aqua Stop 2.645-192.0



Hose set with hose hanger, 15 m

- Set is ideal for use as supply hose for a high-pressure cleaner
- Hose hanger
- 15 m 1/2" PrimoFlex® hose
- Spray nozzle 2.645-053.0
- G1 tap adaptor with G3/4 reducer 2.645-007.0
- **NEW:** Universal hose connector 2.645-191.0
- **NEW:** Universal hose connector with Aqua Stop 2.645-192.0



Hose connection set for pressure washers

- Ideal set for use as a supply hose for a pressure washer
- 10 m 3/4" PrimoFlex® hose
- G3/4 tap connection
- **NEW:** Universal hose connector 2.645-193.0
- **NEW:** Universal hose connector with Aqua Stop 2.645-194.0

Hoses

Length	20 m	15 m	10 m
Order no. (PU)[1]	2.645-115.0 (1 pcs)	2.645-114.0 (1 pcs)	2.645-156 (1 pcs)



Water timer WT 120

- Brass thread for robust attachment to water tap
- Including tap adaptor and pre-filter
- Watering up to 120 min.
- Watering stops after preset time



Watering Unit WT 4.000

- Individual programming for watering on demand
- Watering up to 120 min.
- Manual watering possible
- Removable display for convenient programming
- Including tap adaptor and pre-filter
- 9-Volt battery not included



Watering Unit WU 60/2 sun

- Watering programme with 1 to 2 watering cycles a day
- Manual watering possible
- Solar/UV sensor activates watering at sunrise
- Including tap adaptor and pre-filter
- 9-Volt battery not included



Watering Unit WU 60/49

- 49 watering programmes for watering on demand
- Watering up to 60 min.
- LCD display
- Including tap adaptor and pre-filter
- Watering cycle starts and stops automatically at preset times
- 9-Volt battery not included
- Compatible with rain sensor



Watering Unit WU 90/72

- 72 watering programmes for watering as required by local conditions
- Watering up to 90 min.
- LCD display
- Including tap adaptor and pre-filter
- Watering cycle starts and stops automatically at preset times
- 9-Volt battery not included
- Compatible with rain sensor



Rain sensor

- Measures the rainfall and adapts the watering schedule to it
- For connection to watering units WU 60/49 and WU 90/72
- Approx. 4.5 m connection cable
- No power supply required
- Including wall fixation and spike

Water timers

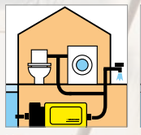
Connection threads	G3/4 and G1	G3/4 and G1	G3/4 and G1	G3/4 and G1	G3/4 and G1	–
Order no. Blister (PU)[1]	2.645-033.0 (4 pcs)	2.645-174.0 (3 pcs)	2.645-034.0 (4 pcs)	2.645-035.0 (3 pcs)	2.645-036.0 (3 pcs)	2.645-037.0 (3 pcs)

[1] PU = packing unit.
G1 = 33.3 mm; G3/4 = 26.4 mm; G1/2 = 21.0 mm; hose inner diameter: 1/2" = 13 mm; 5/8" = 15 mm; 3/4" = 19 mm.

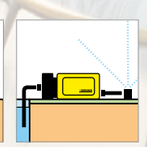
Kärcher house water supply:

A clever way to save water.

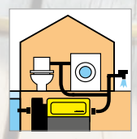
Home owners will realise the value of our drinking water when they look at their latest water bill. Why not make use of inexpensive process water for the washing machine, WC cistern and outdoor tap? Kärcher has developed innovative house water supply pumps for this purpose. They supply the home reliably and conveniently with cheap water from wells, tanks or springs, for example. Fully automatic at high pressure and with a high delivery rate.



House water dispenser



House water dispenser



House water works

Electronic booster pumps – automatic pressure in the pipe.

Kärcher electronic booster pumps feature impressive pressures and flow rates whilst the intelligent technology provides for a great deal of convenience. Whenever water is required they switch themselves on and then later they switch themselves off. They are compact and lightweight enough to be carried into the garden and used for watering.



Protected
Kärcher electronic booster pumps come standard with a prefilter. It protects the pumps from dirt and debris and thus increases their operational reliability.



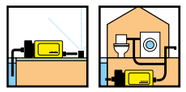
Environmentally friendly
Our electronic booster pumps run extremely quietly. The delayed shutdown time can be individually adjusted.



Perfectly clear
The display shows the relevant performance data, water volume and fault messages.



Convenient handle
The ergonomic shape of the integrated handle makes it easy to carry.





BPE 4000/45 Auto Control

- Adjustable delayed shutdown
- Prefilter and non-return valve standard



BPE 4200/50 Auto Control

- Info display
- Adjustable delayed shutdown
- Prefilter and non-return valve standard



BPE 5000/55 Auto Control

- Info display, incl. pressure gauge
- Adjustable delayed shutdown
- Prefilter and non-return valve standard

Technical data

Motor rating	**W**	850	1100	1300
Max. flow rate**	**l/h**	3800	4200	4800
Delivery height / pressure, max.	**m / bar**	44 / 4,4	49 / 4,9	55 / 5,5
Operating pressure	**bar**	1.6 – 4.4	1.6 – 4.9	1.6 – 5.5
Max. suction height	**m**	9	9	9
Pump travelling mechanism		Jet	Jet	Jet
Delivery temperature, max.	**°C**	35	35	35
Weight without accessory	**Kg**	10.3	10.3	11.9
Dimensions (L x W x H)	**mm**	486 x 233 x 267	486 x 233 x 267	486 x 233 x 267
Connecting thread		G1	G1	G1
Power cord H07RN-F	**m**	1.5	1.5	1.5

Equipment

Adjustable delayed shutdown	■	■	■
Prefilter and non-return valve	■	■	■
Dry run cut-out	■	■	■
Large filler neck	■	■	■
Comfortable carry handle	■	■	■
Convenient foot switch	■	■	■
Optimised union	■	■	■
Display with convenient handling	–	■	■
Order no. EU I	**1.645-250.0**	**1.645-251.0**	**1.645-252.0**

■ Included in delivery package. ** Tip: The delivery rate of the pump depends on the pump height, the connected hoses and watering systems
By lowering the pump height or increasing the inside diameter of the connected hoses and watering systems, a higher water flow rate can be achieved.

Booster pumps – water power for the entire house.

Kärcher booster pumps pump inexpensive process water throughout the entire house. The additional water tank compensates the pressure in the system so that the pump does not have to start and stop frequently. The prefilter, non-return valve and pressure gauge are integrated.



Everything within view
The integral pressure gauge ensure the user has water pressure under control at all times.



Standard equipment
All Kärcher booster pumps are equipped with a prefilter.



Convenient and dependable
Our booster pumps are easy to fill and include a non-return valve as a standard feature.



Pressure compensation
An additional water tank compensates the pressure in the system so that the pump does not have to start and stop frequently.



BPP 3000/42

- Integral pressure tank (18 litres)
- Prefilter and non-return valve standard
- Integral pressure gauge



BPP 4000/48

- Integral pressure tank (18 litres)
- Prefilter and non-return valve standard
- Integral pressure gauge



BPP 4500/50

- Integral pressure tank (18 litres)
- Prefilter and non-return valve standard
- Integral pressure gauge



Technical data

Max. motor rating	**W**	700	900	1200
Max. flow rate**	**l/h**	3000	3700	4500
Delivery height / pressure, max.	**m / bar**	40 / 4	43 / 4,3	50 / 5
Operating pressure	**bar**	1.7 – 3.2	1.7 – 3.6	1.7 – 3.6
Max. suction height	**m**	8	8	8
Pump travelling mechanism		Jet	Jet	Jet
Delivery temperature, max.	**°C**	35	35	35
Weight without accessory	**Kg**	16	16	17
Dimensions (L x W x H)	**mm**	493 x 283 x 554	493 x 283 x 554	493 x 283 x 554
Connecting thread		G1	G1	G1
Power cord H05RN-F	**m**	1.5	1.5	1.5

Equipment

Prefilter and non-return valve	■	■	■
Integral surge tank	18 litres	18 litres	18 litres
Integral pressure gauge	■	■	■
Large filler neck	■	■	■
Mounting facility	■	■	■
Optimised union	■	■	■
Order no. EU I	**1.645-280.0**	**1.645-281.0**	**1.645-282.0**

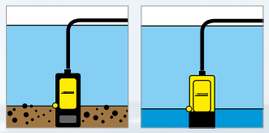
■ Included in delivery package. ** Tip: The delivery rate of the pump depends on the pump height, the connected hoses and watering systems
By lowering the pump height or increasing the inside diameter of the connected hoses and watering systems, a higher water flow rate can be achieved.

You will find an extensive range of Kärcher original accessories on pages 38/39.

Kärcher’s intelligent submersible pumps.

Intelligent submersible pumps.

Kärcher’s submersible pumps feature an intelligent IQ level sensor. The pumps react to water contact immediately thanks to the electronic sensor. The pump adjusts itself to various conditions and switches on at precisely the right moment thanks to the adaptive pump rhythm. The ceramic slide ring sealing ensures an extra-long service life.



Wastewater pumps

Clear water pumps

Submersible dirty water pumps: watertight benefits.

Kärcher dirty water pumps now bear the “Ceramic Technology” seal of quality. The ceramic slide ring sealing – well-known and well-proven in the professional sector – makes the pump more robust, more durable, and top-fit for extreme use in the private sector. And the new, intelligent IQ level sensor convinced in highly demanding applications: Thanks to its adaptive pump rhythm, the precisely correct water quantity is pumped out – the equipment continually adapts to varying water quantities.



Reacts immediately
The IQ level sensor of the submersible pumps switches the pump on immediately upon contact with water. The switching level is freely selectable.



Complete water level control
IQ level sensor for optimal pro-tection due to adaptive pump rhythm.



Priming
If the pump does not immediately take in water after being started up, it can simply be primed by the touch of a button.



Durable protection
The ceramic slide ring sealing is permanently protected by oil and significantly increases the durability of the pump.





SDP 5000

- Comfortable carry handle



SDP 7000

- Comfortable railing handle



SDP 9500

- Comfortable railing handle
- Push-button priming



SDP 14000 IQ Level Sensor

- Electronic IQ level sensor: Infinitely variable switching level with adaptive pump rhythm
- Push-button priming
- Removable stainless steel prefilter



SDP 18000 IQ Level Sensor

- Electronic IQ level sensor: Infinitely variable switching level with adaptive pump rhythm
- Push-button priming
- Removable stainless steel prefilter

DESIGNPREIS 2009 NOMINIERT

iF product design award 2008

KÄRCHER MOST INNOVATIVE BRAND 2007

Technical data

		SDP 5000	SDP 7000	SDP 9500	SDP 14000 IQ Level Sensor	SDP 18000 IQ Level Sensor
Max. motor rating	W	250	320	450	800	1100
Max. flow rate**	l/h	5000	7000	9500	14000	18000
Delivery height / pressure, max.	m / bar	5/0.5	6/0.6	6/0.6	8/0.8	9/0.9
Max. depth of immersion	m	8	9	9	9	9
Max. grain size	mm	20	20	20	25	30
Delivery temperature, max.	°C	35	35	35	35	35
Weight without accessories	Kg	4	4.3	4.3	6.8	8
Dimensions (L x W x H)	mm	170x190x310	170x190x310	200x210x315	220x220x390	220x220x400
Connecting thread		G1	G1	G1	G1¼	G1¼
Power cord		H05RN-F, 10 m	H05RN-F, 11 m	H05RN-F, 11 m	H07RN-F, 11 m	H07RN-F, 11 m

Equipment

Comfortable carry handle	■	■	■	■	■	
Optimised union	■	■	■	■	■	
Push-button priming	–	–	■	■	■	
Ceramic slide ring sealing	–	–	■	■	■	
Electronic IQ level sensor	–	–	–	■	■	
Simple definition of switching level	–	■	■	Infinitely variable	Infinitely variable	
Plug switch: ON/OFF/AUTO	–	–	–	–	■	
Removable stainless steel filter	–	–	□	□	■	
Connecting hose	1"	1"	1", ¾"	1¼, 1" incl. non-return valve	1¼, 1" incl. union nut and non-return valve	
Order no. EU I	**1.645-123.0**	**1.645-100.0**	**1.645-102.0**	**1.645-103.0**	**1.645-104.0**	

■ Included in delivery package. □ Available accessories.
** Tip: The delivery rate of the pump depends on the pump height, the connected hoses and watering systems. By lowering the pump height or increasing the inside diameter of the connected hoses and watering systems, a higher water flow rate can be achieved.

Submersible clear water pumps: clearly the way forward.

The clear water pump SCP 16000 IQ Level Sensor with flat suction function and infinitely variable IQ level sensor reacts to water contact. The adaptive pump rhythm guarantees a drainage behaviour that is precisely adjusted to the water volume. The pump pumps the water mop-dry to 1 mm. The removable, easy-to-clean stainless steel prefilter keeps even coarse particles away from the pump and thus contributes very positively to the durability of the pump.



Convenient
The switch level can be con-tinuously adapted through easy displacing of the IQ level sensor.



Safe
A removable stainless steel prefilter protects the pumps SDP 18000/ SCP 16000 IQ Level Sensors from coarse dirt, e.g. twigs – and thus prevents the clogging of the impeller.



Please select
The SDP 18000/SCP 16000 IQ Level Sensors can be controlled remotely by using a plug switch: “On” (pump runs continuously), “Off” (pump is switched off), “Auto” (pump reacts to IQ Level Sensor).



Mop dry
Wipe dry function allows water to be removed from a level of 1 mm above pump base.





SCP 5000

- Comfortable carry handle



SCP 6000 | 7000

- Comfortable railing handle



SCP 9000

- Flat pick-up to a depth of 1 mm
- Push-button priming





SCP 12000 IQ Level Sensor | SCP 16000 IQ Level Sensor

- Electronic IQ Level Sensor: infinitely variable definition of the switch height with adaptive pumping rhythm
- Flat pick-up to a depth of 1 mm
- Removable stainless steel prefilter (SCP 16000 IQ Level Sensor)

reddot design award honourable mention 2008

KÄRCHER MOST INNOVATIVE BRAND 2007

GOOD DESIGN

Technical data

		SCP 5000	SCP 6000 | 7000	SCP 9000	SCP 12000 IQ Level Sensor | SCP 16000 IQ Level Sensor
Max. motor rating	W	220	250 | 280	350	600 | 900
Max. flow rate**	l/h	5000	6000 | 7000	9000	12000 | 16000
Delivery height / pressure, max.	m / bar	5/0.5	5/0.5 | 6/0.6	7/0.7	7/0.7 | 9/0.9
Max. depth of immersion	m	8	9	9	9
Flat pick-up to a depth of	mm	5	5	1	1
Max. grain size	mm	5	5	5	5
Delivery temperature, max.	°C	35	35	35	35
Weight without accessory	Kg	3.8	4/4.2	4.2	6.5/7.6
Dimensions (L x W x H)	mm	175x190x260	175x190x260	180x195x280	210x215x335 | 215x215x385
Connecting thread		G1	G1	G1	G1¼
Power cord		H05RN-F, 10 m	H05RN-F, 11 m	H05RN-F, 11 m	H07RN-F, 11 m

Equipment

Comfortable carry handle	■	■	■	■	
Optimised union	■	■	■	■	
Pump starts at low water level	■	■	■	■	
Changeover normal mode/flat pick-up	–	–	■	■	
Push-button priming	–	–	■	■	
Ceramic slide ring sealing	–	–	■	■/■	
Electronic IQ level sensor	–	–	–	■	
Simple definition of switching level	–	■	■	Infinitely variable	
Removable stainless steel filter	–	–	□	□/■	
Plug switch: ON/OFF/AUTO	–	–	–	–/■	
Connecting hose	1"	1"	1", ¾"	1¼, 1" incl. non-return valve 1¼, 1" incl. union nut and non-return valve	
Order no. EU I	**1.645-175.0**	**1.645-150.0 | -151.0**	**1.645-152.0**	**1.645-153.0 | -154.0**	

You will find an extensive range of Kärcher original accessories on pages 38/39.

Accessories for pump systems:

Completely equipped with Kärcher.

Kärcher's customers benefit from an extensive range of high-quality original accessories. Thanks to Kärcher's suction hoses, suction sets, prefilters, connectors, dry run cut-outs and electronic pressure switches, individual watering setups can be systematically and optimally coordinated. This makes it possible to use water from harvested sources as frugally and efficiently as possible.

Accessories for pump systems

Accessories for pump systems.



Systematically efficient

Thanks to the combination of Kärcher quality accessories, pumps can be put to work quickly and easily. Suction hoses, suction sets, prefilters, connections, dry run cut-outs, electronic pressure switches etc. can be combined in an optimal configuration for resource-conserving operation. This provides the ideal watering setup while maximizing the efficient use of water from alternative sources.



GP 60 Multistage 5.



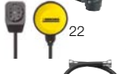
SPP 60 Inox.



BPP 4500/50.



SDP 18000 IQ Level Sensor.

			Order no.	Dimensions	Diameter	Description		GP 40	GP 45	GP 55	GP 60/GP 70 Mobile Control	GP 50 Multistage 4	GP 60 Multistage 5	SPP 33 Inox	SPP 56 Inox	SPP 60 Inox	BPE 4000/45 Auto Control	BPE 4200/50 Auto Control	BPE 5000/55 Auto Control	BPP 3000/42 und 4000/48	BPP 4500/50	SDP 5000	SDP 7000	SDP 9500	SDP 14000 IQ Level Sensor	SDP 18000 IQ Level Sensor	SCP 5000	SCP 6000	SCP 7000	SCP 9000	SCP 12000 IQ Level Sensor	SCP 16000 IQ Level Sensor
Suction hoses																															
 1, 2	Suction hose, by the metre	1	6.997-347.0	Length: 25 m	3/4"	Vacuum-proof spiral hose. Available in reels for cutting to length. Can be combined with Kärcher connectors and suction filters to create customised suction hose kits.	1	□	□	□	□	□	□	□	□	□	□	□	□	□	□			□	□	□					□	□	□
3	Suction hose, by the metre	2	6.997-346.0	Length: 25 m	1"	Vacuum-proof spiral hose. Available in reels for cutting to length. Can be combined with Kärcher connectors and suction filters to create customised suction hose kits.	2	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
4	Suction hose	3	6.997-348.0	Length: 3.5 m	3/4"	Vacuum-proof spiral hose ready for direct connection to pumps. For extending suction hose or for use with suction filters. For pumps with G1 (33.3 mm) connecting thread.	3	□	□	□	□	□	□				□	□	□	□	□	□												
5	Suction kit for pumps, 3.5 m	4	6.997-350.0	Length: 3.5 m	3/4"	Complete, ready-to-connect vacuum-proof spiral hose with suction filter and backflow check valve. Can also be used for extending suction hose. For pumps with G1 (33.3 mm) connecting thread.	4	□	□	□	□	□	□				□	□	□	□	□	□												
	Suction kit for pumps, 7 m	5	6.997-349.0	Length: 7 m	3/4"	Complete, ready-to-connect vacuum-proof spiral hose with suction filter and backflow check valve. Can also be used for extending suction hose. For pumps with G1 (33.3 mm) connecting thread.	5	□	□	□	□	□	□				□	□	□	□	□	□												
6	Suction hose for pipes	6	6.997-360.0	Length: 0.5 m	3/4"	Vacuum-proof connection of pump to driven wells or pipes on the suction side. Local water laws must be observed when connecting the pump. G1 (33.3 mm) connecting thread at both ends.	6										□	□	□	□	□	□												
Filters																															
 7, 8	Suction filter with backflow check valve, Basic, 3/4"	7	6.997-345.0	–	3/4"	For connection to cut-to-length suction hose. The backflow stop prevents the backflow of the pumped water, which reduces the suction time. Including hose clamp.	7	□	□	□	□	□	□				□	□	□	□	□	□												
 9	Suction filter with backflow check valve, Basic, 1"	8	6.997-342.0	–	1"	For connection to cut-to-length suction hose. The backflow stop prevents the backflow of the pumped water, which reduces the suction time. Including hose clamp.	8	□	□	□	□	□	□				□	□	□	□	□	□												
	Suction filter for pumps with backflow check valve, Premium	9	6.997-341.0	Set for 3/4"- and 1"-hoses	–	Robust metal/plastic version. For connection to cut-to-length suction hose. The backflow stop prevents the backflow of the pumped water, which reduces the suction time. Including hose clamp.	9	□	□	□	□	□	□				□	□	□	□	□	□												
 10 11	Pump prefilter, small	10	6.997-343.0	Up to 3.000 l/h Mesh size: 250 µm (0.25 mm)	–	Pump prefilter for all common pumps without integrated filter. Protects pumps from coarse particles or dirt or sand. The filter is washable. For pumps with G1 (33.3 mm) connecting thread.	10	□	□	□							□	□		□												
	Pump prefilter, large	11	6.997-344.0	Up to 6.000 l/h Mesh size: 250 µm (0.25 mm)	–	Pump prefilter for all common pumps without integrated filter. Protects pumps from coarse particles or dirt or sand. The filter is washable. For pumps with G1 (33.3 mm) connecting thread.	11	□	□	□	□	□	□				□	□	□	□	□	□											
 12, 13	Prefilter for submersible pumps, large	12	6.997-353.0	–	–	Removable stainless steel prefilter increases the operational reliability of your submersible pump and protects the pump impeller against blockage. Suitable for SDP 14000, SDP 18000, SCP 12000 and SCP 16000.	12																			■						■	
	Prefilter for submersible pumps, small	13	6.997-351.0	–	–	The removable stainless steel prefilter increases the operational reliability of your submersible pump and protects the pump impeller against blockage. Suitable for SDP 9500 and SCP 9000.	13																	□						□		
Adapters/connections																															
 14 15	Pump connector including non-return valve, small	14	6.997-359.0	For 3/4"- and 1"-hoses	–	Vacuum-proof connection of the suction hoses to the pump. Includes union nut, hose clamp, flat seal, and non-return valve. For pumps with G1 (33.3 mm) connection threads and 3/4" and 1" hoses.	14	□	□	□	□	□	□				□	□	□	□	□	□	□	□	□			□	□	□	□		
	Pump connector including non-return valve, large	15	6.997-418.0	For 1"- and 1 1/4"-hoses	–	Vacuum-proof connection of the hoses to the pump. Includes union nut, two pump adaptor fittings, flat seal, and non-return valve. For pumps with G1 1/4 (41.9 mm) connection thread 1" and 1 1/4" hoses.	15							□	□	□										□	□					□	□
 16 17	Pump connection adapter, small	16	6.997-352.0	G1 on G1	–	For connecting pumps with internal thread.	16	□				□	□																			
	Pump connection adapter, large	17	6.997-354.0	G1 1/4 on G1	–	For connecting pumps with internal thread.	17							□	□																	
 18 19	Pump connector kit, Basic	18	6.997-358.0	–	–	For connecting 1/2" (12.7 mm) water hoses to pumps with G1 (33.3 mm) connecting thread.	18	□	□	□	□	□	□				□	□	□	□	□	□									
	Pump connector kit, Premium	19	6.997-340.0	–	–	For connecting 3/4" (19 mm) water hoses to pumps with G1 (33.3 mm) connecting thread. For increased water flow rate.	19	□	□	□	□	□	□				□	□	□	□	□	□									
Other																															
 20 21	Dry-run cut-out for pumps	20	6.997-355.0	–	–	When water stops flowing through the pump, the dry-run cut-out protects the pump from damage by switching it off automatically. With G1 (33.3 mm) connecting thread. Especially suitable for booster pumps.	20	□	□	□		□	□	□	□	□				□	□											
	Electronic pressure switch with dry-run cut-out for pumps	21	6.997-357.0	–	–	Ideal for converting a garden pump into an electronic booster pump. The pump turns on and off automatically in response to water demand. When water stops flowing through the pump, the dry-run cut-out protects the pump from damage by switching it off automatically. With G1 (33.3 mm) connecting thread.	21	□	□	□		□	□	□	□	□																
 22	Float switch for pumps	22	6.997-356.0	–	–	The float switch starts and stops the pump automatically depending on the water level. With 10 m special power cord. In connection with GP 60/70 Mobile Control is only possible to switch of the pump.	22	□	□	□	□	□	□		□	□	□	□	□	□	□										
 23	Pressure compensation hose	23	6.997-417.0	Length: 1 m	3/4"	Connecting hoses for rigid pipe systems. The silicon inner hose compensates for the pressure drop in the housing. This leads to fewer vibrations, resulting in a considerable noise reduction. In addition the inner expansion in the hose prevents the pump from occasionally switching itself on and off. G1 (33.3 mm) connecting threads at both ends. Length: 1.0 m Diameter: 3/4".	23										□	□	□	□	□												
 24	Flat hose set	24	6.997-419.0	Length: 10 m	1"	Flexible flat hose made from PVC with textile reinforcement with zinc coated hose clamp of 25 – 40 mm. Ideal for efficient evacuation of flood water. Max. working pressure: 4 – 5 bar.	24															□	□	□	□	□	□	□	□	□	□	□	□

■ Included in delivery package. □ Available accessories.

Find the right type of pump for you: a house water dispenser (BPE) or house water works (BPP)

Today, in a time in which drinking water has become an expensive and valuable product, house water dispensers and house water works are becoming increasingly important. Home owners become aware of the price of drinking water at the latest when they see their water bill.

So why not used inexpensive process water for washing machines, toilet flushing and watering your garden?

But what are the differences, and according to what criteria should one choose which pump is the right one?

Difference:
BPEs switch on/off automatically depending on whether water is needed. Their compact build makes it possible to easily take them into the garden for use as a garden pump.

BPPs, on the other hand, have a pressure tank. When water is needed, it is pumped from the tank and only then is the pump automatically switched on or off.

Recommendation:
BPE: If water is used for longer periods of time or if constant pressure is required for water use (e.g. for cleaning work or watering the garden).

BPP: For several outlets in the house, smaller amounts of water and more common use (e.g. WC, washing machine).

Calculation of the pump capacity

Decisive criteria include the required flow rate and pressure for the application (lifting height). The values calculated can be used to select the right pump using the pump capacity characteristic curve.

Q = flow rate

1 First the total required water volume has to be calculated from the outlets that are to be used at the same time. Typical consumption values: WC flushing tanks = 4 l/min, washing machine = 10 l/min, watering the garden = 10 l/min per sprinkler, cleaning work = 8 l/min.

2 Simultaneous consumption values must be added together. **(Example: Simultaneous use of the washing machine and 2 sprinklers => 10 l/min + 2 x 10 l/min = 30 l/min).**

3 Since the outlets are not always open, only 50% of the total consumption is included as a usage factor (e.g. for rinse and washing cycle changes in washing machines). **(Example: => 30 l/min x 0.5 = 15 l/min. This corresponds to a demand of 900 litres per hour; 15 l/min x 60 min).**

H = Required pump pressure / lifting height

The required lifting height of the pump comprises the suction height H_S + pump height H_F + required working pressure in meters of the water head H_W. 15 % is added to compensate for conduction losses.

1 The suction height (H_S) is the height difference between the lowest water level to the pump **(example: water level in the cistern is 2 m below the pump).**

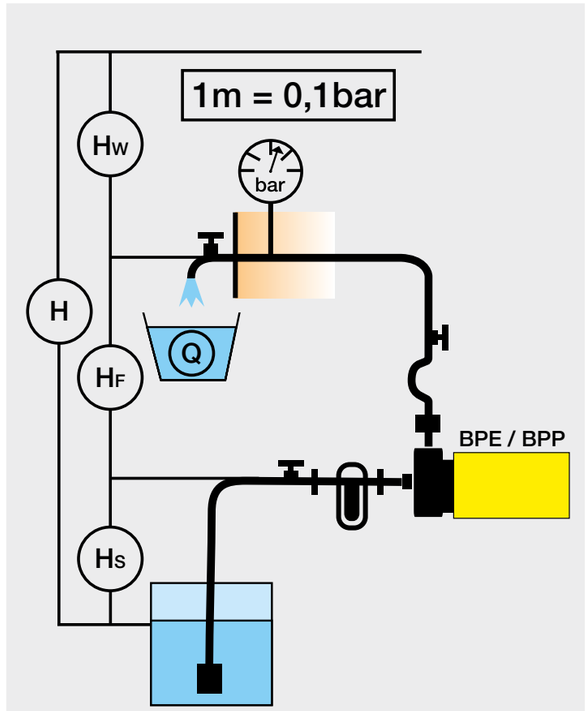
2 The maximum pump height (H_F) is the difference in height between the pump to the highest water outlet **(example: 1x WC flushing tank is on the second floor at a height of 5 m from the pump).**

3 Values of about 1.5 bar usually suffice as minimum working pressures (H_W). This value must be converted to meters of height of the water head (0.1 bar = 1 meter) **(Example: t1.5 bar x 10 = 15 m).**

4 Friction losses and resistance in the pipeline are compensated for by 15% (conduction losses). **(Example: Required lifting height (H) = 2 m + 5 m + 15 m = 22 m + 15% = 25.3 m)**

Result of example calculation:

For this example a pump with a capacity of at least 900 l/h at a lifting height of 25.3 m would be required. This value can be checked in the capacity characteristic curve of the pump (see following example).





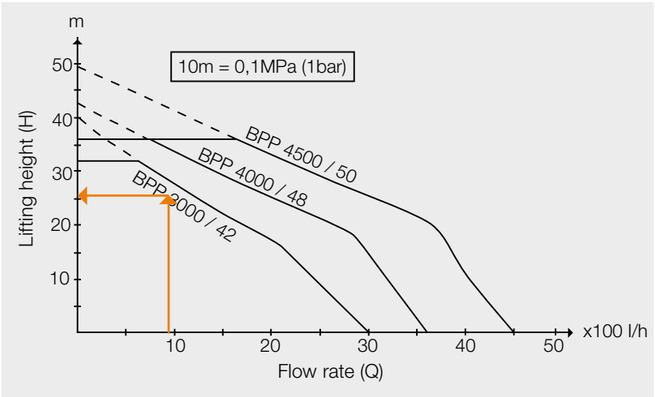
H = (H_S + H_F + H_W) + 15 %

H	= required lifting height of the pumps
H_S	= suction height
H_F	= pump height
H_W	= working pressure in meters of the water head (mWS)
15 %	= conduction loss due to length of pipe, connections u.a.

Q = V_1+ V_2 + V... x 50 %

Q	= required capacity of the pump
V_1, V_2, V...	= outlets
50 %	= usage factor

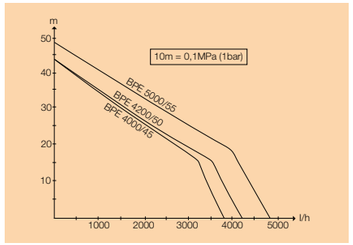
Pump capacity characteristic curve



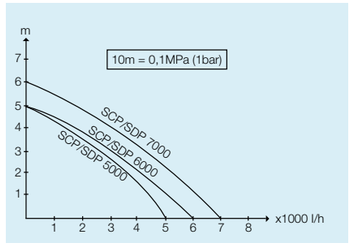
- The lifting height decreases as the flow rate increases
- and the lifting height increases as the flow rate decreases

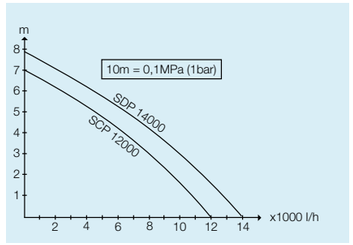
Checking the pump capacity characteristic curve shows that the capacity of BPP 3000/42 is required in the example. In case of a later expansion of the system we recommend selecting the more powerful pump in order to have sufficient reserves.

House water dispenser (BPE)

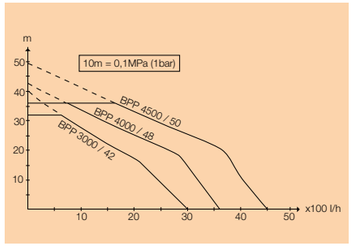


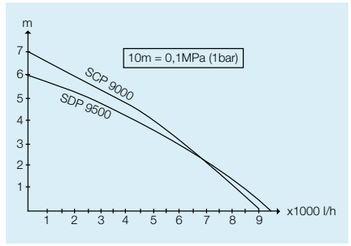
Immersion pumps (SCP / SDP)

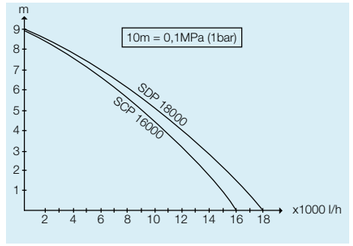




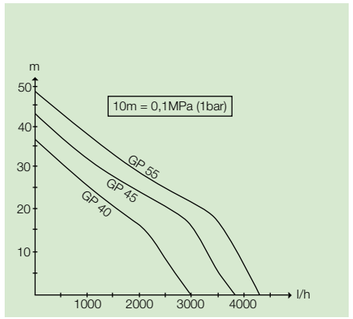
House water works (BPP)

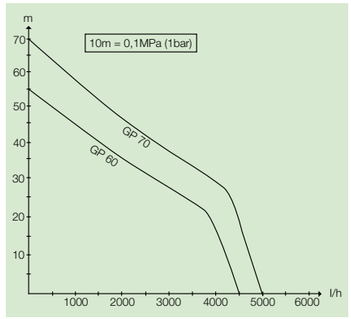


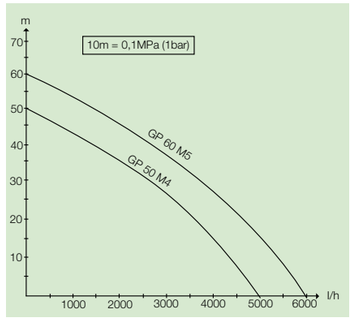




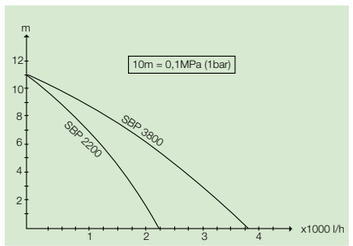
Garden pumps (GP)



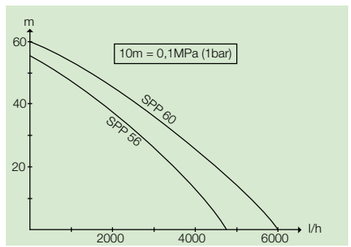


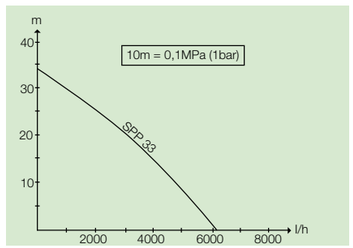


Drum pumps (SBP)



Immersion pressure pumps (SPP)





Checklist for the right pump application

BPPs	BPP 4500		■	■											■	■		■	■	■		
	BPP 4000		■	■											■	■		■	■	■		
	BPP 3000		■	■											■	■		■	■	■		
BPEs	BPE 5000		■	■										■	■	■		■	■	■		
	BPE 4200		■	■										■	■	■		■	■	■		
	BPE 4000		■	■										■	■	■		■	■	■		
SPPs	SPP 60	■		■								■	■		■	■				■		
	SPP 56	■		■								■	■		■	■				■		
	SPP 33	■		■									■	■	■	■				■		
SBPs	SBP 3800	■		■										■								
	SBP 2200	■												■								
GPs	GP 60 M5		■											■	■	■						
	GP 50 M4		■											■	■	■						
	GP 70		■											■	■	■						
	GP 60		■											■	■	■						
	GP 55		■											■	■	■						
	GP 45		■											■	■	■						
	GP 40		■											■	■	■						
SDPs (wastewater)	SDP 18 000	■				■		■	■	■												
	SDP 14 000	■				■		■	■	■												
	SDP 9500	■				■		■	■	■												
	SDP 7000	■				■		■	■	■												
	SDP 5000	■				■		■	■	■												
SCPs (clear water)	SCP 16000	■					■	■	■													
	SCP 12000	■					■	■	■													
	SCP 9000	■					■	■	■													
	SCP 7000	■					■	■	■													
	SCP 6000	■					■	■	■													
	SCP 5000	■					■	■	■													
Applications		Pump is in water	Pump is not in water (dry)	Fixed installation possible	Drainage: pumping out and re-pumping then out	Pond	Swimming pool	Cellar	Drainage chute	Small pit (max. 100 m³)	Watering: Garden watering from	Wells / drill holes at least 98 mm	Wells / drill holes at least 250 mm	Rain drum	Cistern / tank	Water tap in the garden	House water supply: from cistern, tank	Washing machine	WC	Water tap (for watering the garden and cleaning work)	The pumps are not suitable for continuous pumping nor for drinking water use.	

KÄRCHER

makes a difference

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