

#### HDS 10/20-4 M

The most powerful 3-phase hot water high-pressure cleaner in the Kärcher middle class: HDS 10/20-4 M Classic. With 4-pole, water-cooled electric motor, 2 cleaning agent tanks and lots more.

















#### 1 Efficiency

- In the ecolefficiency mode the machine operates in the most economical temperature range (60°C) with full water flow.
- The burner cycles are optimised to reduce fuel consumption by 20% compared to full-load operation.

#### 2 Maximum efficiency

- Highly efficient, tried-and-tested burner technology.
- Four-pole electric motor with three-piston axial pump.

#### 3 Operational safety

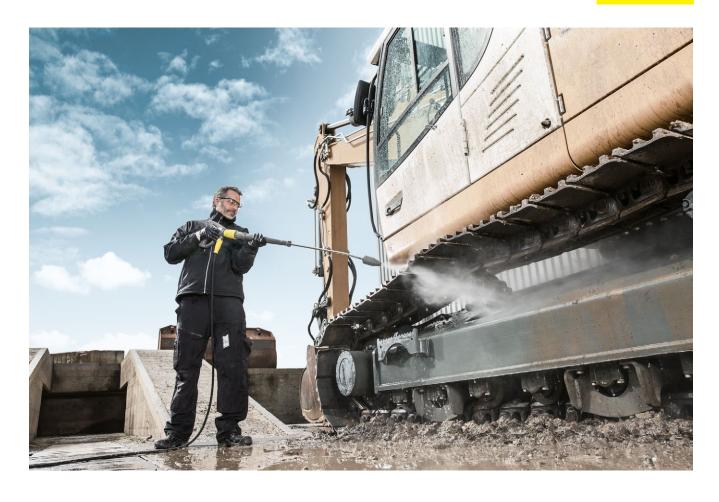
- The large, integrated water fine filter reliably protects the high-pressure pump against small dirt particles.
- The integrated exhaust gas thermostat switches off the drive motor if the emission temperature exceeds 300 °C.

#### 4 Storage

- Safe and ample storage for protective gear, accessories and cleaning agents
- Storage hooks for power cable and high-pressure hose.

# **TECHNICAL DATA AND EQUIPMENT**





#### HDS 10/20-4 M

- Economical eco!efficiency mode
- Two detergent tanks
- Three-phase motor: water-cooled

Technical data		
Order no.		1.071-905.0
EAN code		4054278140278
Current type	Ph / V / Hz	3 / 400 / 50
Flow rate	l/h	500-1000
Pressure	bar / MPa	30-200 / 3-20
Max. temperature	°C	80 / 155
Connection load	kW	7.8
Heating oil or gas consumption, full load	kg/h	6.4
Fuel tank	1	25
Weight	kg	167.3
Dimensions (L × W × H)	mm	1330 × 750 × 1060
Equipment		

Equipment				
Cleaning agent function		20 + 10 l tank	Pole reverse plug (3-phase)	
Spray gun		EASY!Force Advanced	Service electronics with LED display	
High-pressure hose	m	10 / Long-life	Two detergent tanks	•
Spray lance	mm	1050	Dry-running protection	
Power nozzle				
Servo Control		-		
ANTI!Twist		•		
Anti-twist system (AVS)		-		
Tanks for cleaning agent, calcification protection and fuel can be filled from the outside		•		
Control panel with display light				
Pressure cut-off		•		
■ Included in the scope of supply.				

Included in the scope of supply.































								$\neg \neg$
				Max. working				
		Order no.	ID	pressure	Length	Price	Description	
Standard with unions on both sides		·	•	'				
High-pressure hose, 10 m, ID 8, 315 bar, extension	1	6.391-342.0	ID 8	315 bar	10 m		To extend the operating radius with the high-pressure clean er. Connection on both sides M22 x 1.5.	1-
High-pressure hose, 30 m, ID 8, incl. rotary coupling	2	6.390-293.0	ID 8	315 bar	30 m			<b>A</b>
High-pressure hose, 2 x EASY!Lock, DN 8, 315 bar, 30 m, ANTI!Twist	3	6.110-014.0	ID 8	315 bar	30 m		Convenient length (30 m) and innovative EASY!Lock hand screw connection: high-pressure hose (ID 8) with ANTI!Twist for up to 315 bar pressure.	t 🔺
High-pressure hose, 2 x EASY!Lock, DN 10, 220 bar, 15 m	4	6.110-042.0	ID 10	220 bar	15 m		With innovative EASY!Lock hand screw connection for up to 220 bar pressure: 15 m long high-pressure hose (ID 10).	) 🔺
High-pressure hose, 2 x EASY!Lock, DN 10, 220 bar, 20 m	5	6.110-043.0	ID 10	220 bar	20 m		Main features of this high-pressure hose (ID 10): 20 m long with extremely time-saving and convenient EASY!Lock hand screw connection at both ends.	- 1
High-pressure hose, 2 x EASY!Lock, -DN-10, 220 bar, 25 m	6	6.110-044.0	ID 10	220 bar	25 m		Impressive values and basic equipment: high-pressure hose (ID 10), 25 m long, for up to 220 bar pressure.	
High-pressure hose, 2 x EASY!Lock, DN 10, 220 bar, 40 m	7	6.110-045.0	ID 10	220 bar	40 m		40 m long high-pressure hose with EASY!Lock system for time-saving hand screw connection (at both ends). (ID) 10, up to 220 bar working pressure.	<b>A</b>
High-pressure hose, 2 x EASY!Lock, DN 12, 210 bar, 15 m	8	6.110-059.0	ID 12	210 bar	15 m		Suitable for up to 250 bar working pressure: high-pressure hose (ID 12), 15 m long, with convenient EASY!Lock hand screw connection at both ends.	•
High-pressure hose, 2 x EASY!Lock, 2x EASY!Lock, DN 12, 210 bar, 40 m	9	6.110-060.0	ID 12	210 bar	40 m		With EASY!Lock hand screw connection, 40 m long for wide working radius: high-pressure hose (ID 12) with EASY!Lock hand screw connection at both ends. Suitable for up to 250 bar working pressure.	
Hose assembly TR DN10 22MPa 10m	10	6.110-041.0	ID 10	220 bar	10 m		but working pressure.	<b>A</b>
Longlife 400 with unions on both si	ides			'				
High-pressure hose Longlife 400, 10 m, ID 8, extension	11	6.391-354.0	ID 8	400 bar	10 m		To extend the operating radius with the high-pressure clean er. Connection on both sides M22 x 1.5.	1-
High-pressure hose Longlife 400, 15 m, ID 8, including rotary cou- pling	12	6.389-709.0	ID 8	400 bar	15 m		With rotary coupling, 2 x M 22 x 1.5	•
High-pressure hose Longlife 400, 30 m, ID 8, including rotary cou- pling	13	6.390-294.0	ID 8	400 bar	30 m			•
High-pressure hose 1.5 m, ID 8, including connectors	14	6.390-178.0	ID 8	400 bar	1.5 m		1.5 m high-pressure hose (DN 8, M 22 x 1.5) with kink protection and connectors at both ends. For connecting to hose reels with appropriate connector (M 22 x 1.5).	
Food industry version with unions	on bot	h sides						
High-pressure hose, food grade, 2 x EASY!Lock, DN 8, 10 m, AN-TI!Twist	15	6.110-051.0	ID 8	250 bar	10 m		High-pressure hose (ID 6), 10 m long, with grey, non-marking outer covering. Approved for use in the food industry. With quick and robust EASY!Lock hand screw connection at both ends.	
High-pressure hose, food grade, 2 x EASY!Lock, DN 8, 20 m, AN- TI!Twist	16	6.110-052.0	ID 8	250 bar	20 m		Suitable for use in food industry: 20 m long high-pressure hose (ID 8) with grey, non-marking outer covering, AN-TI!Twist and EASY!Lock hand screw connections.	•
Longlife food design with screw con	nnecti		_	1				
High pressure hose food ID 8, 10 m	17	6.391-864.0	ID 8	400 bar	10 m		Longlife HP hose for use in the food industry. Außendecke## animal-grease-resistant, non-colour-bleeding mate	
High-pressure hose food industry 400 bar, 20 m, ID 8, including rotary coupling	18	6.391-887.0	ID 8	400 bar	20 m		rial. With rotary coupling, 2 x M 22 x 1,5	•

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.











		Order no.	ID	Max. working pressure	Length	Price	Description
Longlife 400		1	'	'			
High-pressure hose Longlife 400, 10 m, ID 8, AVS trigger gun con- nection	19	6.391-351.0	ID 8	400 bar	10 m		With patented AVS connection in the trigger gun (rotatable) and hand screw connection, M 22 x 1.5 with kink protection.  With double steel reinforcement.
Longlife food design							
HIgh-pressure hose Longlife 400, 10 m, ID 8, AVS trigger gun con- nection	20	6.391-885.0	ID 8	400 bar	10 m		Longlife HP hose for use in the food industry. Außendecke## animal-grease-resistant, non-colour-bleeding material. With patented AVS connection in the pistol (pivot
HIgh-pressure hose Longlife 400, 20 m, ID 8, AVS trigger gun con- nection	21	6.391-886.0	ID 8	400 bar	20 m		mounted)
Special hoses							
High-pressure hose, 1.5 m, ID 8, incl. connection parts, curved outflow	22	6.388-886.0	ID 8	400 bar	1.5 m		Connection hose in longlife quality with 2x M22 x 1.5, with angled connection on one side.

<sup>■</sup> Included in the scope of supply. □ Available accessories. ▲ Extension hose.











		Order no.	Flow rate		Price	Description
Servo control						
Servo Control controller with EASY!Lock	1	4.118-008.0	750-1100 l/h			Water quantity and pressure regulated directly from the hand spray gun.
Trigger guns						
High-end HP trigger gun	2	4.775-823.0				High-end spray guns with optimised flow. Small pressure losses also with water volumes up to 2500 l/h. Robustness and durability for professional use. Food-safe and saltwater-resistant materials offer the best conditions for use in the food sector and in industry. Connector for HP hoses M 22 × 1.5.
Quick connect						
Quick coupling	3	6.401-458.0				For fast changes between different spray lances/accessories. Perfect for Kärcher spray unit, suitable for trigger gun/spray lance interface. With M 22 x 1.5 internal thread.
Male coupling	4	6.401-459.0				Hardened stainless steel male coupling for quick coupling 6.401-458. With M 22 x 1.5 external thread.

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.













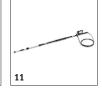


















			Max. working			
		Order no.	pressure	Length	Price	Description
Rotating spray lances						
1050 mm spray pipe, rotatable	1	4.760-660.0	300 bar	1050 mm		1050 mm stainless steel lance (manual coupling) with ergo- nomic handle for ease of use and protection. Rotatable 360° under pressure.
600 mm spray pipe, rotatable	2	4.760-664.0	300 bar	600 mm		600 mm stainless steel lance (manual coupling) with ergo- nomic handle for ease of use and protection. Rotatable 360° under pressure.
Spray lance, 840 mm, rotatable	3	4.760-663.0	300 bar	840 mm		850 mm stainless steel lance (manual coupling) with ergo- nomic handle for ease of use and protection. Rotatable 360° under pressure.
1550 mm spray pipe, rotatable	4	4.760-661.0	300 bar	1550 mm		1550 mm stainless steel lance (manual coupling) with ergo- nomic handle for ease of use and protection. Rotatable 360° under pressure.
2050 mm spray pipe, rotatable	5	4.760-662.0	300 bar	2050 mm		2050 mm stainless steel lance (manual coupling) with ergo- nomic handle for ease of use and protection. Rotatable 360° under pressure.
EASY!Lock 1000 mm spray lance extender	6	4.112-048.0	300 bar	1000 mm		Spray lance extension with EASY!Lock connection. Length 1000 mm.
Spray lance						
250 mm lance, non-rotatable	7	4.760-667.0		250 mm		250 mm stainless steel lance. With manual coupling. Non-ro-tatable.
Vibrasoft lance	8	6.415-951.0	250 bar	950 mm		The spring-loaded 360° loop handle significantly reduces the vibrations on the spray lance, reducing the physical burden on the user, e.g. when working with the dirt blaster.
Flexible spray lance					•	
Flexible lance 1050 mm	9	6.394-654.0	210 bar	1050 mm		1050 mm flexible lance with variable bend from 20° to 140°, ideal for cleaning difficult to reach areas, e.g. gutters.
High-pressure M18x1.5 articulated joint	10	4.481-039.0	300 bar			High-pressure articulated joint: Thanks to infinite angle adjustment up to 120°, this tool is ideal to effortlessly clean hard-to-reach areas. Simply attach to the spray lance of the pressure washer.
Telescopic spray lance						pressure washer.
Telescopic spray lance	11	6.394-690.0	225 bar			Can be continuously extended from 1.8 to 5.4 m. For cleaning areas that are difficult to reach, such as ceilings or facades. With integrated HD trigger gun, M 22 x 1.5 connection with rotary coupling. Connection for M 18 x 1.5 nozzles,
Strap for telescopic spray pipe	12	6.373-987.0				Convenient strap for relief when working with the telescopic spray lance (6.394-690). The burden is optimally distributed on the body and longer periods of use are possible.
Gutter cleaner		·				and the second s
Gutter cleaning lance	13	2.642-305.0				The lance is suited for cleaning of gutter systems. Because of the shape of the lance and the special nozzle the gutter can be cleaned without removing the cover plates.
Weed control			•		 •	
WR 50	14	2.114-013.0				In combination with a hot water high-pressure cleaner from Kärcher, the 50 cm wide weed remover WR 50 is ideal for removing weeds. It comes with an adaptive chassis and nozzle adapter.
WR 20	15	2.114-014.0				For thorough weed removal: The WR 20 weed remover for use with a hot water high-pressure cleaner from Kärcher. Equipped with a 20 cm wide nozzle bar and nozzle adapter.
WR 100	16	2.114-015.0				Equipped with a 20 cm wide hozzle but and hozzle daupter.









		Order no.	Max. working pressure	Length		Price	Description	
WR 10	17	2.114-016.0					In combination with hot water high-pressure cleaners our WR 10 weed remover enables fast and thorough weed removal. With 10 cm spray head and nozzle adapter.	
WR 50	18	2.643-758.0					In combination with a hot water high-pressure cleaner from Kärcher, the 50 cm wide weed remover WR 50 is ideal for removing weeds. It comes with an adaptive chassis and nozzle adapter.	
WR 20	19	2.643-760.0					For thorough weed removal: The WR 20 weed remover for use with a hot water high-pressure cleaner from Kärcher. Equipped with a 20 cm wide nozzle bar and nozzle adapter.	

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.











							$\Box$
		Order no.			Price	Description	
Attachment kit for transport			'				
Crane loading attachment kit for HDS Middle and Super Class	1	2.642-424.0				Effortless loading by crane.	
Transport eyelet attachment kit	2	2.644-053.0				Robust transport eyelet attachment kit for the secure fixing of HDS Medium and Super Class pressure washers during transport.	
Y distributor							
Y distributor	3	4.405-048.0				Offers the option to connect two spray units to the machine Installation on the high pressure outlet.	
Accumulator kits						-	
Pressure tank attachment kit for HDS Middle and Super Class	4	2.641-803.0				The accumulator can be mounted on the HDS machine in order to dampen pressure surges, which conserves the machine's line system.	

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.











		1						_
		Order no.	Flow rate	Nozzle size	Diame- ter	Price	Description	
Hard Surface Cleaner FRV 30		·	'	•				
FRV 30 surface cleaner	1	2.642-999.0					With the integrated and automatic suction of the dirty water, the FRV 30 makes surface cleaning even more efficient. There is no longer a need to rinse the surface after cleaning, as the dirty water can be removed through the 5m suction hose, which is supplied. Additional features include the non-marking steering rollers and double ceramic bearings. Machine specific nozzle kit must be ordered separately.	
Machine-specific nozzle kits for FF	RV							
Nozzle kit 050 - for FRV	2	2.642-433.0		50			Machine-specific nozzle kit with Kärcher power nozzles and jet nozzle for FRV 30.	
FRV 30 Me surface cleaner								
FRV 30 Me	3	2.642-911.0					Thanks to automatic suction of the dirty water, the stainless steel FRV 30 Me Surface Cleaner makes surface cleaning more efficient in both inside and outside areas. Hot water cleaning up to 85°C.	
Extension hose FRV 30 Me and FRV 50 Me	4	4.441-040.0					5 m extension hose for FRV 30 Me. Includes connecting adapter.	

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.











		Order no.			Price	Description	
Spacer (including nozzle union)							
Spacer (includes nozzle screws)	1	5.394-294.0				Guarantees constant safety clearance, e.g. for tyres and bodywork. Helps prevent damage to sensitive surfaces.  Mounts directly to lance.	
Rotary coupling							
Rotary coupling	2	4.401-091.0				Reliably prevents twisting of HP hoses. Connection M 22 x 1.5 m. Handle protection	
EASY!Lock adapter							
Adapter 12 rotary coupling EASY!Lock 22 IG - M22 x 1.8 AG	3	4.111-046.0				Rotatable adapter for connecting EASY!Force high-pressure gun and high-pressure hoses with M 22x1.5 connection	
Flue pipe							
Flue gas adapter	<u>4</u> 5	4.656-149.0 4.656-080.0				Flue gas adapter with draught damper for flue pipe connection (adapter for HDS burners for connection to a stack system).	

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.

















		Order no.	Max. working pressure	Nozzle size	Diame- ter	Price	Description	
HKF 50 spray head, brass								
HKF 50 spray head, brass	1	3.631-039.0					Depth of immersion 850 mm. Interior cleaning head for barrels and containers with bungholes of 50 mm and more. Can be directly connected to the high-pressure cleaner. Electric motor drive. Operation is possible both vertically and horizontally	
Nozzle kit for spray head HKF 50 (3			9.0)	l.				
Nozzle 045 for 2-nozzle operation HKF 50	2	6.415-446.0		45			Nozzle for dual-nozzle operation	
Pipe cleaning nozzle								
Pipe cleaning dirt blaster D21/060	3	4.765-002.0		60	21 mm		The forward-tilted rotating pencil jet removes the most	
Pipe cleaning dirt blaster D30/060	4	4.765-005.0		60	30 mm		stubborn dirt. The three backwards-tilted jets ensure the necessary forward movement, as well as convenient handling.	
Pipe cleaning nozzle	5	5.763-015.0		55	16 mm		16 mm pipe cleaning nozzle with internal thread. Various jet	(
	6	5.763-016.0		60	16 mm		directions for environmentally-friendly cleaning of blocked drains and pipes.	
	7	5.763-017.0		50	30 mm		Pipe cleaning nozzle with inner thread. Different spray directions. The hose moves freely through the pipe. (R 1/8" connection, 3 x 30° backwards, diameter 30 mm.)	
Pipe cleaning dirt blaster D 25 / 060	8	6.415-945.0		60	25 mm		The forward-tilted rotating pencil jet removes the most stubborn dirt. The three backwards-tilted jets ensure the	
Pipe cleaning dirt blaster D 30 / 060	9	6.415-947.0		60	30 mm		necessary forward movement, as well as convenient han- dling.	
Pipe cleaning dirt blaster D 35 / 060	10	6.415-949.0		60	35 mm			

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.





		Order no.	Nozzle size		Price	Description
Nozzle kits for wet jet unit						
Nozzle kit for wet jet unit 055	1	2.112-024.0	55			Consisting of wet jet nozzle and nozzle insert – only for use in combination with wet jet unit 4.115-000.0 $\mid$ 4.115-006.0.

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.











		Order no.	Flow rate		Price	Description	
Cup foam lance							
Cup foam lance Basic 3	1	4.112-055.0	900-2500 l/h			High-quality, simple and durable: Basic 3 cup foam lance for high-pressure cleaners with a flow rate of 900-2500 l/h. Halves the cleaning agent consumption while maintaining optimum foam quality.	
1-litre cleaning agent container for advanced foam lance	2	6.414-050.0				Additional 1-litre cleaning agent container for quick replacement of the cleaning agent (for foam lance 2.112-017.0 and 2.112-018.0).	
Cup foam lance	3	6.394-668.0	1200 l/h			Short, handy foam lance with adjustable spray angle with 1 litre detergent tank. Ideal for cleaning cars due to its compact design.	
Nozzle kits for Inno/Easy Foam Set							
Nozzle kit 110 for Inno / Easy Set 1,000-1,300 l/h	4	2.111-020.0	1000-1300 l/h			Nozzle kit 110 contains Kärcher power nozzles and nozzle inserts. For Inn/Easy-Foam set 1000-1300 l/h. For optimal foam system performance.	

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.

















		Order no.	Length		F	Price	Description
Automatic, self-winding hose reels	for wa	II mounting					
Automatic stainless steel hose reel	1	6.392-442.0	40 m				Automatic hose reels provide the highest level of safety and convenience for winding and unwinding HP hoses. Compatible high-pressure hose, e.g. order no. 6.110-076.0 (ID 8, 40 m, 400 bar, 1x hose reel connection attachment kit).
Stainless steel swivel holder	2	2.641-867.0					Swivelling wall bracket made of high-grade steel (for 2.641- 866). This makes maximum flexibility and convenience possible when working with the HP hose.
Automatic hose reel, powder-coated steel / plastic	3	6.392-975.0	20 m				Automatic hose reel for 20 m high-pressure hose. The console is made from powder-coated steel, the drum is made from plastic.
Automatic stainless steel / syn- thetic material hose drum	4	6.392-965.0	20 m				Automatic hose reel for 20 m high-pressure hose. The console consists of stainless steel, the drum is made from plastic.
ABS automatic stainless steel hose drum	5	2.641-866.0	20 m				High-grade, automatic steel hose reel. Especially suitable for use in the food industry. The material and finish provide for a corrossion-resistant, watertight capsuled sprong drive. Connection for HP hoses with nipple.
Automatic, self-winding hose reel a	ttachn	nent kit					
ABS holder, automatic hose drum HDS M/S	6	2.110-020.0					Holder includes connection material for installing an automatic hose reel to machines in the HDS Middle and Super classes.
ABS automatic hose drum HDS M/S		2.642-957.0		Futuraisa hara			Automatic hose reel as a complete attachment kit that's easy to mount. Suitable for HDS medium and super class. For maximum convenience when winding and unwinding the high-pressure hose.

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.











		Order no.	Flow rate	Inlet tempera- ture	Length	Length	Price	Description	
Solar cleaning - telescopic lances									
iSolar TL 7 H (without hose)	1	4.107-054.0		max. 60 °C				Telescopic rod made from a carbon/fibreglass mixture for maximum rigidity with minimum weight. With 7.2 m max. reach and practical quick-release couplings for easy extension and retraction.	_
iSolar TL 10 H (without hose)	2	4.107-053.0		max. 60 °C				Telescopic rod made from a carbon/fibreglass mixture for maximum rigidity with minimum weight. With 10 m max. reach and practical quick-release couplings for easy extension and retraction.	ן
iSolar TL 10 C (without hose)	3	4.107-055.0		max. 60 °C				The full carbon telescopic lance offers maximum rigidity with minimal weight. It has a reach of up to 10 m and is fitted with practical quick-release couplings – for convenient extension and retraction. The speed is regulated via ball tap, guaranteeing easy handling. For occupational safety reasons, the lowest lance element is made from a carbon-fibreglass mixture for electrical insulation.	]
iSolar TL 14 C (without hose)	4	4.107-052.0		max. 60 °C				Full carbon telescopic rod for maximum rigidity with minimal weight. With 14 m max. reach and practical quick-release couplings for easy extension and retraction.	7
iSolar HP hose 7	5	6.392-978.0		max. 155 °C				High-quality, flexible HP hose (with rubber covering) for the iSolar TL 7. The outer layer has especially good sliding properties when extending and retracting the telescopic rod.	_
iSolar HP hose 10	6	6.392-977.0		max. 155 °C				High-quality, flexible HP hose (with rubber covering) for the iSolar TL 10. The outer layer has especially good sliding properties when extending and retracting the telescopic rod.	
iSolar HP hose 14	7	6.392-976.0		max. 155 °C				High-quality, flexible HP hose (with rubber covering) for the iSolar TL 14. The outer layer has especially good sliding properties when extending and retracting the telescopic rod.	

<sup>■</sup> Included in the scope of supply.

<sup>☐</sup> Available accessories. ▲ Extension hose.







		Order no.	Length	Diameter			Price	Description	
Geka coupling	Geka coupling								
Geka connector with hose barb, R 1"	1	6.388-465.0						with hose barb	
Suction filter									
Water suction filter	2	6.414-956.0						Suitable for ponds, storage tanks or similar, polyamide filter casing, stainless steel strainer, 800 µm mesh, R 3/4" and R 1" connection, without non-return valve	

<sup>■</sup> Included in the scope of supply. 

Available accessories. 

Extension hose.

Authorized Distributor

DELTA
SOLUTIONS

Cleaning solutions for every need