



HDS-E 8/16-4 M 24 kW

High economy, high performance electrically-heated hot water high pressure cleaner with zero emissions. 24kW version featuring pre-heat chamber and 45°C continuous operating temperature at full pressure



1 Highly energy efficient, for high cost savings

- Highly effective insulating material saves up to 40% energy in stand-by mode.
- Unique eco!efficiency mode.

2 High working temperature

- Large water reservoir (max. 85 °C).

3 Save energy and time: EASY!Force high-pressure guns and EASY!Lock quick-release locks.

- At last – work without getting tired: the EASY!Force high-pressure gun.
- EASY!Lock quick-release locks: durable and robust. And five times faster than screws.

4 Servo Control

- For delivering a significantly higher water temperature to the accessories.



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■ Economical ecoefficiency mode

Technical data

Order Number	1.030-904.0	
EAN code	4054278169002	
Number of current phases	Ph	3
Frequency	Hz	50
Voltage	V	400
Flow rate	l/h	300-760
Pressure	bar / MPa	30-160 / 3-16
Max. temperature	°C	45 / 85
Power rating	kW	29,5
Weight	kg	122,1
Dimensions (L x W x H)	mm	1330 x 750 x 1060

Equipment

Trigger gun	EASY!Force Advanced	
High-pressure hose	m	10 / ID 6, 250 bar
Spray lance	mm	1050
Power nozzle	■	
Servo Control	■	
Emission-free electric heating	■	
Anti-twist system (AVS)	-	
Control panel with indicator lamps	■	
Pressure switch control	■	
Two detergent tanks	■	

■ Included in delivery.

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		Order Number	ID	Max. working pressure	Length	Price	Description	
Standard with unions on both sides								
High-pressure hose, 10 m DN 8, AVS trigger gun connector	1	6.110-031.0	ID 8	315 bar	10 m		10 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.	▲
High-pressure hose, 15 m DN 8, AVS trigger gun connector	2	6.110-030.0	ID 8	315 bar	15 m		15 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.	▲
High-pressure hose, 20 m DN 8, AVS trigger gun connector	3	6.110-032.0	ID 8	315 bar	20 m		20 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 8/155°C/315 bar.	▲
High-pressure hose, 30 m DN 8, including rotary coupling	4	6.110-014.0	ID 8	315 bar	30 m		With rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose, 15 m DN 10, 220 bar, extension	5	6.110-042.0	ID 10	220 bar	15 m		15 m high-pressure hose M 22 x 1.5) with kink protection and threaded couplings at both ends. Further data: DN 10/155°C/220 bar.	▲
High-pressure hose, 20 m DN 10, 220 bar, extension	6	6.110-043.0	ID 10	220 bar	20 m		with union on both sides, M 22 x 1.5 with anti-kink protection. NW 10/155°C/220 bar	▲
High-pressure hose, 25 m DN 10, extension, not rotatable	7	6.110-044.0	ID 10	220 bar	25 m			▲
Hose assembly premium DN12 21MPa 15m	8	6.110-059.0	ID 12	210 bar	15 m		High-pressure hose for water volumes greater than 1,800 l/h. With union on both sides. 2x M 22 x 1.5 with anti-kink protection.	▲
Hose assembly premium DN12 21MPa 40m	9	6.110-060.0	ID 12	210 bar	40 m			▲
Hose assembly TR DN10 22MPa 10m	10	6.110-041.0	ID 10	220 bar	10 m			▲
High-pressure hose, 10 m DN 6, AVS trigger gun connector	11	6.110-035.0	ID 6	250 bar	10 m		10 m high-pressure hose (M 22 x 1.5) with kink protection. With patented rotating AVS trigger gun connector and manual coupling. Further data: DN 6/155°C/250 bar.	■
High-pressure hose, 10 m, DN 6, 300 bar, AVS trigger gun connection	12	6.110-056.0	ID 6	300 bar	10 m		With patented AVS connection in the trigger gun (pivot-mounted) and hand screw union. M 22 x 1.5 with anti-kink protection. NW 6/155°C/300 bar	□
Longlife 400 with unions on both sides								
High-pressure hose Longlife 400, 30 m DN 8, including rotary coupling	13	6.110-023.0	ID 8	400 bar	30 m		With rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose Longlife 400, 20 m, DN 8, extension	14	6.110-027.0	ID 8	400 bar	20 m		with rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose Longlife 400, 15 m, DN 8, including rotary coupling	15	6.110-029.0	ID 8	400 bar	15 m		With rotary coupling, 2 x M 22 x 1.5	▲
High-pressure hose 1.5 m, DN 8, including connectors	16	6.110-024.0	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).	□
	17	6.110-069.0	ID 8	400 bar	1.5 m			□
High-pressure hose packaged	18	6.110-038.0	ID 8	400 bar	10 m			□
Food industry version with unions on both sides								
High-pressure hose, 10 m ID 8, suitable for food industry, extension piece	19	6.110-051.0	ID 8	250 bar	10 m		10 m high-pressure hose (DN 8) with patented (rotating) AVS trigger gun connector. Non-discolouring outer layer for use in the food industry. M 22 x 1.5 with anti-kink sleeve.	▲
High-pressure hose, 20 m ID 8, suitable for food industry, extension piece	20	6.110-052.0	ID 8	250 bar	20 m		20 m high-pressure hose (DN 8) with swivel coupling. Non-discolouring outer layer for use in the food industry. Connectors at both ends, M 22 x 1.5, with kink protection. NW 8/155°C/250 bar.	▲

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	ID	Max. working pressure	Length		Price	Description	
High-pressure hose 15 m ID 6, AVS trigger gun connector 11 mm, suitable for food industry, grey	21	6.110-063.0	ID 6	250 bar	15 m			15 m high-pressure hose (DN 6) with patented (rotating) AVS trigger gun connector. Non-discolouring outer layer for use in the food industry. DN 6/155°C/250 bar.	<input type="checkbox"/>
Longlife food industry version with unions on both sides									
High pressure hose food DN 8 / 10 m	22	6.110-053.0	ID 8	400 bar	10 m			Longlife HP hose for use in the food industry. Außendecke## animal-grease-resistant, non-colour-bleeding material. With rotary coupling, 2 x M 22 x 1,5	<input checked="" type="checkbox"/>
High-pressure hose Longlife 400, 15 m, ID 6, AVS trigger gun connection	23	6.110-054.0	ID 8	400 bar	20 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 mounted)	<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Flow rate				Price	Description	
Trigger guns									
EASY!Force Advanced	1	4.118-005.0						Effortless, not energy-sapping: the EASY!Force high-pressure gun uses the recoil force of the high-pressure jet to reduce the holding force for the operator to zero.	■
Servo Control									
Servo control	2	4.118-008.0	750-1100 l/h						■
Quick connect									
Quick-fitting pipe union coupler trapezo	3	2.115-000.0							<input type="checkbox"/>
Quick-fitting pipe union plug nipple tra	4	2.115-001.0							<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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1-4

		Order Number	Nozzle size					Price	Description	
Power nozzle spray angle 25°										
Power nozzle spray angle 25°	1	2.113-022.0	45						Fan jet nozzle with 25° spray angle, suitable for large areas and removing stubborn dirt and stains.	■
HP nozzle spray angle 0°										
High-pressure nozzle spray angle 0°	2	2.113-033.0	45						High-pressure nozzle with powerful jet for extremely stubborn dirt.	□
Power nozzle spray angle 15°										
Power nozzle spray angle 15°	3	2.113-046.0	45						Fan jet nozzle with 15° spray angle suitable for stubborn dirt.	□
Power nozzle spray angle 40°										
Power nozzle spray angle 40°	4	2.113-053.0	45						Power nozzle with a 40° spray angle and fan jet, suitable for large areas and sensitive surfaces.	□

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number					Price	Description	
Crane lifting kit									
Crane loading kit for HDS middle and super class	1	2.642-424.0						Effortless loading by crane.	<input type="checkbox"/>
NOCH NICHT GEPFLEGT ----- ---- >	2	2.644-053.0							<input type="checkbox"/>
Y distributor									
Y distributor	3	4.111-024.0							<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Flow rate	Nozzle size	Diame-ter	Price	Description	
Hard Surface Cleaner FRV 30								
Add-on kit hose attachment	1	2.642-528.0						<input type="checkbox"/>
Add-on kit dirt trap	2	2.642-532.0						<input type="checkbox"/>
Hard surface cleaner FR 30 ME								
FR 30 ME surface cleaner	3	2.111-013.0			300 mm		Hot water resistant stainless steel surface cleaner with double ceramic bearings, non-marking swivel castors and suction hose connection. Ideal for indoor cleaning, e.g. food industry.	<input type="checkbox"/>
Hard Surface Cleaner FR 50								
FR 50 surface cleaner	4	2.111-023.0			500 mm		Hot water resistant stainless steel surface cleaner with 500 mm working width. Ideal for large areas. With double ceramic bearings, push handle, non-marking swivel castors and detergent dosing system.	<input type="checkbox"/>
Machine-specific nozzle kit for FR								
Nozzle kit for surface cleaners (type-specific) 650 - 850 l/h	5	2.639-187.0	650-850 l/h				Nozzle kit includes power nozzles and unions. For Kärcher surface cleaners (650 to 850 l/h).	<input type="checkbox"/>
Machine-specific nozzle kits for FRV								
Nozzle kit 045 for FRV 30	6	2.642-432.0		45				<input type="checkbox"/>
Hard surface cleaner FRV 30 Me								
Suction hose FRV 30 me	7	4.441-040.0						<input type="checkbox"/>
FRV 30 ME	8	2.111-012.0					Surface cleaner with integrated waste water pick-up	<input type="checkbox"/>
Surface Cleaner FR 50 Me								
	9	2.111-024.0						<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Nozzle size				Price	Description	
Wet blasting attachment (without nozzle)									
Wet blasting attachment with flow control (without nozzles)	1	4.115-000.0						Paint, rust and scale removal made easy: Kärcher wet blasting attachment with flow control for adding blasting abrasive to the high-pressure jet.	<input type="checkbox"/>
Wet blasting attachment without flow control (nozzles not included)	2	4.115-006.0						Paint, rust and scale removal made easy: Kärcher wet blasting attachment with flow control for adding blasting abrasive to the high-pressure jet. Without flow control.	<input type="checkbox"/>
Nozzle pack for wet blasting attachment									
Nozzle pack TR wet jet set 0045	3	2.112-022.0	45						<input type="checkbox"/>
Boron carbide nozzle									
Boron carbide nozzle, for machines as of 1000 l/h	4	6.415-084.0	6 mm					In addition to nozzle packs. Very wear-resistant nozzle with boron carbide chuck for continuous-duty operation.	<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Max. working pressure	Nozzle size	Diame-ter		Price	Description	
Pipe cleaning hose, ID 6									
Hose assembly TR pipe cleaning DN6 max.2	1	6.110-046.0	250 bar						<input type="checkbox"/>
Pipe cleaning hose, DN 6, 20 m, 220 bar	2	6.110-008.0	250 bar					20 m flexible high-pressure hose (DN 6) for cleaning pipes up to 220 bar (threaded connection for R 1/8 nozzle).	<input type="checkbox"/>
Hose assembly TR pipe cleaning DN6 max.2	3	6.110-047.0	250 bar						<input type="checkbox"/>
Pipe cleaning nozzle									
Dirt blaster pipe cleaning D21/060	4	4.765-002.0		60	21 mm				<input type="checkbox"/>
Dirt blaster pipe cleaning D30/060	5	4.765-005.0		60	30 mm				<input type="checkbox"/>
Pipe cleaning nozzle	6	5.763-015.0		55	16 mm			16 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
	7	5.763-016.0		60	16 mm				<input type="checkbox"/>
Pipe cleaning nozzle	8	5.763-017.0		50	30 mm			30 mm pipe cleaning nozzle with internal thread. Various jet directions for environmentally-friendly cleaning of blocked drains and pipes.	<input type="checkbox"/>
	9	6.415-428.0		50	16 mm				Rotating pipe cleaning nozzle with internal thread and four rotating jets for environmentally-friendly cleaning of blocked drains and pipes.
Drain cleaning dirt blaster D 25/060	10	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 necessary forward movement, as well as convenient handling.	<input type="checkbox"/>
Drain cleaning dirt blaster D 30/060	11	6.415-947.0		60	30 mm				<input type="checkbox"/>
Drain cleaning dirt blaster D 35/060	12	6.415-949.0		60	35 mm				<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Max. working pressure	Nozzle size			Price	Description	
Dirt blaster, large									
Dirt blaster - without changeover function	1	4.114-042.0	300 bar	45				The dirt blaster with rotating pencil jet offers 10 times better cleaning performance. Ceramic nozzle and bearing ring for a long service life. Further data: Max. 300 bar, 30 MPa, 85°C.	<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Flow rate				Price	Description	
Cup foam lance									
Foam lance TR	1	4.112-054.0	700-800 l/h						<input type="checkbox"/>
Packing complete for 6.394-968.0	2	2.112-017.0							<input type="checkbox"/>
Tank grey only for replacement 1L	3	6.414-050.0							<input type="checkbox"/>
Inno Foam Set									
Inno foam kit with detergent injector	4	2.112-000.0						High-pressure foam system with double lance (foam nozzle and high-pressure jet for rinsing). For use with mobile and stationary high-pressure and HDS pressure cleaners for cleaning or disinfection.	<input type="checkbox"/>
Inno foam kit	5	2.112-008.0							<input type="checkbox"/>
Easy Foam Set									
Easy Foam Set with RM injector	6	2.112-010.0						HP foam system for use with HD/HDS units for cleaning and disinfecting. Foam nozzle for connection to lance and HP chemical injector with precision 0-5% metering valve. The machine specific nozzle kit has to be ordered separately.	<input type="checkbox"/>
Easy foam set	7	2.112-011.0							<input type="checkbox"/>
Nozzle kits for Inno/Easy Foam Set									
Nozzle kit 090 Inno/Easy kit 700 - 1000 l/h	8	2.111-019.0	700-1000 l/h					Nozzle kit contains Kärcher power nozzles and nozzle inserts. For Inno/Easy-Foam set 700-1000 l/h. For optimal foam system performance.	<input type="checkbox"/>
Foam nozzle mounting kit									
Foam nozzle kit	9	2.112-013.0						Foaming agent kit. The foam nozzle is ideal for use in sanitary areas and the food industry and wherever long application times are necessary.	<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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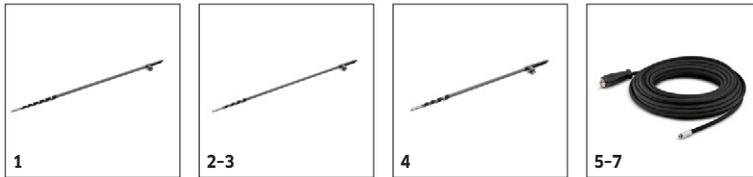


		Order Number	Length				Price	Description	
Automatic, self-winding hose reels									
Add-on kit hose reel plastics	1	6.392-074.0	20 m					Automatic hose reel for 20 m high-pressure hose. The console is made from powder-coated steel, the drum is made from plastic.	<input type="checkbox"/>
Add-on kit hose reel	2	6.392-083.0	20 m					Automatic hose reel for 20 m high-pressure hose. The console consists of stainless steel, the drum is made from plastic.	<input type="checkbox"/>
Hose reel, automatic, 20 m, painted	3	6.392-106.0	20 m					Automatic hose reel of durable plastic. Painted steel bracket. Suitable for 20 m high-pressure hose.	<input type="checkbox"/>
	4	6.392-105.0	20 m						<input type="checkbox"/>
Hose reel, automatic, 20 m, stainless steel	5	6.392-076.0	20 m					Automatic stainless steel hose reel. With swivel holder. Suitable for 20 m high-pressure hose.	<input type="checkbox"/>
ABS hose reel stainless steel	6	6.392-122.0	20 m					High-grade, automatic steel hose reel. Especially suitable for use in the food industry. The material and finish provide for a corrosion-resistant, watertight capsuled sprong drive.	<input type="checkbox"/>
								Connection for HP hoses with nipple.	<input type="checkbox"/>
Add-on kit hose reel TR 40m	7	6.392-442.0	40 m						<input type="checkbox"/>
Swivel holder	8	2.639-931.0						Swivel holder for automatic hose reel wall mounting. For maximum action radius and flexibility of high-pressure hose. Rotatable 120°. Galvanised steel.	<input type="checkbox"/>
ABS wall fastening stainless steel	9	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.	<input type="checkbox"/>
Anbausatz Schlauchtrommel automatik									
Add-on kit hose reel HDS M/S	10	2.110-011.0						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.	<input type="checkbox"/>
Add-on kit holder hose reel TR	11	2.110-020.0							<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Flow rate	Water feed temperature	Length	Length	Price	Description	
Solar cleaning - telescopic lances									
Telescopic rod complete 14m	1	4.110-002.0		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.	<input type="checkbox"/>
Telescopic rod complete 10m CFK	2	4.110-007.0		max. 60 °C					<input type="checkbox"/>
Telescopic rod complete 10m	3	4.110-003.0		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.	<input type="checkbox"/>
iSolar TL 7 H (without hose)	4	4.110-004.0		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.	<input type="checkbox"/>
Hose solar	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.	<input type="checkbox"/>
	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.	<input type="checkbox"/>
	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.	<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Flow rate				Price	Description	
Push-on washing brush									
Push-on wash brush, M 18 x 1.5	1	4.113-001.0						Push-on wash brush for universal use. Simply push on to lance. Connector: M 18 x 1.6.	<input type="checkbox"/>
Rotating washing brush									
	2	4.113-004.0	500-800 l/h						<input type="checkbox"/>
	3	4.113-003.0	500-800 l/h						<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.

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		Order Number	Length	Diameter		Price	Description	
Geka coupling								
With hose nozzle, R 1/2"	1	6.388-461.0					with hose liner	<input type="checkbox"/>
With hose nozzle, R 3/4"	2	6.388-455.0						<input type="checkbox"/>
Hose coupling	3	6.388-458.0					with female thread	<input type="checkbox"/>
Suction filter								
Water filter	4	6.414-956.0						<input type="checkbox"/>
Suction filter with check valve	5	4.730-012.0					Brass suction filter suitable for ponds, storage tanks, etc. With check valve.	<input type="checkbox"/>
Fine-mesh water filter								
Fine-mesh water filter with adapter	6	4.730-102.0					Fine-mesh water filter, 125 µm, max. temperature 50°C. Protects the high-pressure cleaner from dirt particles contained in the water. Water flow rate up to 1200 l/h. Connection 3/4", with adapter, 1".	<input type="checkbox"/>
Water supply hose								
Water supply hose	7	4.440-038.0	7,5 m				NW 13 R1" / R 3/4", up to 30 °C	<input type="checkbox"/>

■ Included in delivery. □ Available accessories. ▲ Extension hose.