

Hako



Waterjet Technology

Great performance under high pressure

Powerful. Versatile. Efficient.



Always the right solution

With Hako, you get more than just a product – you get a reliable partner at your side who understands your requirements and challenges. With accessories perfectly matched to your tasks and individual applications plus great services – from personal advice and tailor-made financing to fast on-site service – we develop efficient and durable solutions that make your work easier.

Harness the power of water – and make full use of it!

Water has always played a key role in cleaning surfaces. Hako develops solutions that effectively use water’s cleaning power, whilst enabling the use of water, cleaning agents and materials in line with specific requirements. The product range comprises professional high-pressure cleaners, high-pressure fire extinguishers and weed control units with various additional functions – for a wide range of applications and reliable cleaning results.

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Product name

This is how to read the product names of the Oertzen high-pressure cleaners correctly:

		Pressure in bar	Flow rate in l/minute
		Type of drive	
Oertzen C.S210-15 E	C.	Stationary – fixed installation Trailer Basic units have no further letter addition	E Electric
	H.		D Diesel
	H.B.		P Petrol
			H Hydraulic
			E.D. Electric, diesel-heated
			P.D. Petrol, diesel-heated

Oertzen extinguishing technology

High-pressure extinguishing equipment for efficient firefighting without set-up times

- Working pressures of up to 230 bar
- Flow rate of up to 2,520 l/h
- As a drive-on or built-in version
- Wide range of accessories



Hako Waterjet Technology

Pressurised water can be a powerful tool for efficiency and safety. This is why Hako Waterjet Technology combines powerful cleaning, effective extinguishing and versatile application options in a product range that sets standards: with maximum user-friendliness, high-quality materials and a robust design for use even in extreme conditions.

Oertzen high-pressure cleaners

Cold and hot water high-pressure cleaners for use in industry and trade

- Cold and hot water units
- Working pressures of up to 500 bar
- With electric motor or combustion engine
- From stationary to mobile
- High application diversity
- Modules and extensive accessories
- Individual special solutions



Weco weed control units

Combination units for weed control, high-pressure cleaning and irrigation

- 3-in-1 solution for use in municipal, industrial and commercial applications
- Models in different sizes, from mobile to trailer-based
- Matching accessories





Oertzen high-pressure cleaners

Cold and hot water high-pressure cleaners

Where the performance of standard devices ends, Hako continues. The professional Oertzen high-pressure cleaners for industry and trade set standards in terms of efficiency and service life. With a complete range of cold and hot water units, various performance classes, different drive types and extensive accessories, we offer the right solution for every application.



High-pressure cleaners with electric motor

- Zero emissions at the work site: for use indoors and in poorly ventilated areas
- For use in noise-sensitive environments
- Low maintenance: no oil



High-pressure cleaners with combustion engine

- Independent: for areas without power sources
- High performance: easily handle demanding cleaning tasks
- Robust and durable: designed for use in extreme conditions
- Flexible: ideal for mobile use



Highly stable frame design

High-quality, robust frames reliably protect the components of the high-pressure cleaners from damage.

In-line piston pump

High-quality, low-speed high-pressure in-line piston pump for maximum efficiency and durability.

Safe for use in potentially explosive environments:

Explosion-proof electrical system

Pressure-encapsulated switch box with intrinsically safe connections for all safety components

Frame

The conductive stainless-steel frame prevents flying sparks in the event of unexpected impact.

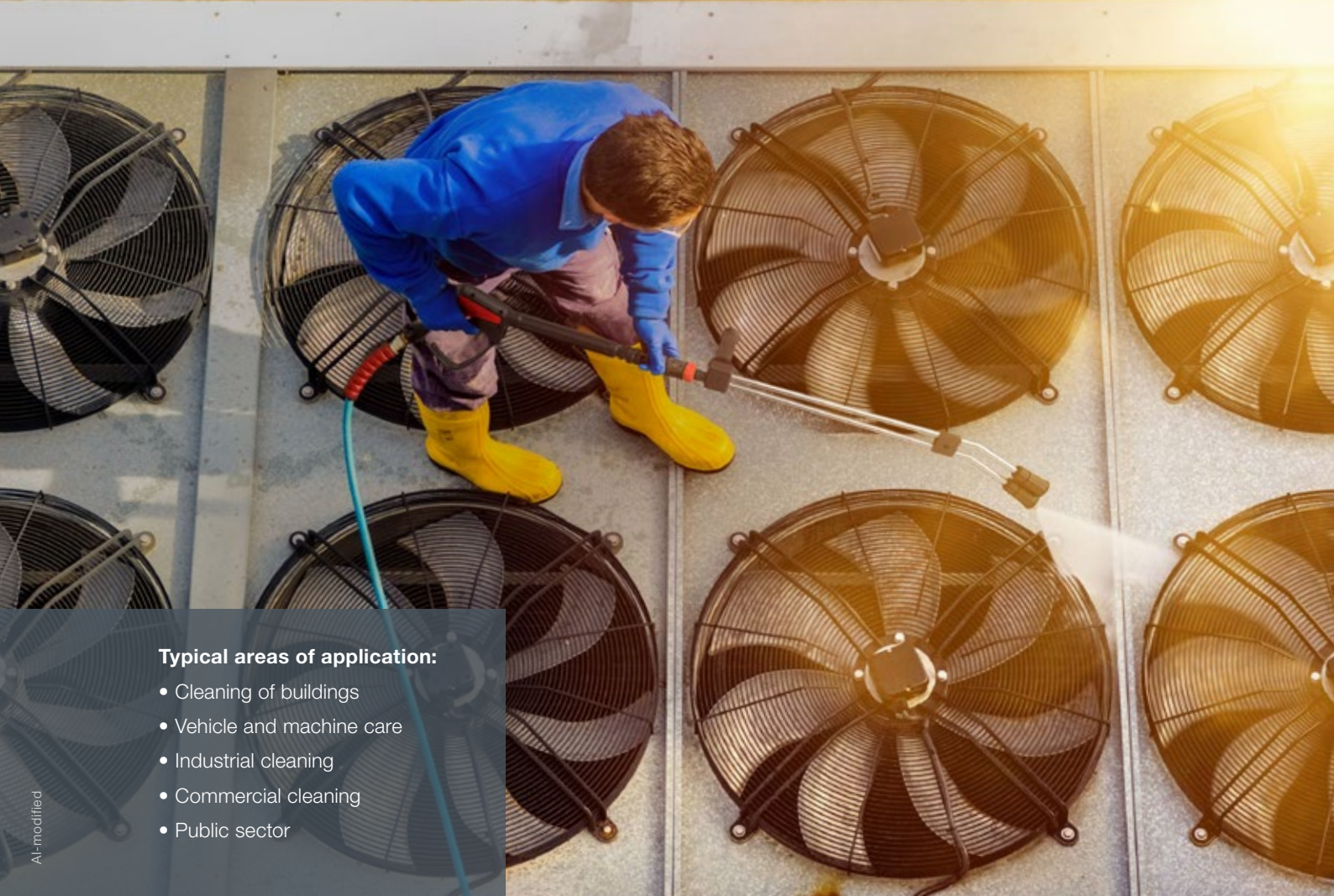
High level of protection

Can be used in Ex Zone II 2G Ex h IIB T3 Gb



Stationary high-pressure cleaners

- Cost-efficient in continuous use: for regular and continuous cleaning tasks
- Space-saving: fixed installed and ready for immediate use, designed for multi-user operation
- High power reserves: developed for industrial applications with high demand
- Individually customisable: integration into existing systems and adaptation to special requirements possible



Typical areas of application:

- Cleaning of buildings
- Vehicle and machine care
- Industrial cleaning
- Commercial cleaning
- Public sector

Oertzen cold water high-pressure cleaners with electric motor

Powerful cleaning performance at the push of a button: With our wide range of mobile and stationary cold water high-pressure cleaners, even demanding cleaning tasks indoors and outdoors can be carried out reliably and sustainably.

Compact class



Oertzen C.X305

Technical data	
Working pressure	160 bar
Flow rate	600 l/h
Voltage	230 Volt
Connected load	3 kW



Oertzen C.X322

Technical data	
Working pressure	150 bar
Flow rate	960 l/h
Voltage	400 Volt
Connected load	5 kW



Oertzen C210-16 E

Technical data	
Working pressure	210 bar
Flow rate	960 l/h
Voltage	400 Volt
Connected load	6.4 kW

Industrial class



Oertzen C170-9 E

Technical data	
Working pressure	170 bar
Flow rate	540 l/h
Voltage	230 Volt
Connected load	3.5 kW



Oertzen C150-21 E

Technical data	
Working pressure	150 bar
Flow rate	1,260 l/h
Voltage	400 Volt
Connected load	6.5 kW



**Oertzen C230-15 E
C230-21 E
C200-30 E**

Technical data	
Working pressure	200 – 230 bar
Flow rate	900 – 1,800 l/h
Voltage	400 Volt
Connected load	6.5 – 12.5 kW

Stationary units



**Oertzen C.S140-12 E
C.S170-9 E
C.S120-21 E/30 E/50 E**

Technical data	
Working pressure	120 – 170 bar
Flow rate	720 – 3,000 l/h
Voltage	400 Volt
Connected load	3.5 – 12.5 kW



**Oertzen C.S210-15 E
C.S210-21 E/30 E**

Technical data	
Working pressure	210 bar
Flow rate	900 – 1,800 l/h
Voltage	400 Volt
Connected load	6.5 – 12.5 kW



Oertzen C.S310-21 E

Technical data	
Working pressure	310 bar
Flow rate	1,260 l/h
Voltage	400 Volt
Connected load	12.5 kW

High-performance class



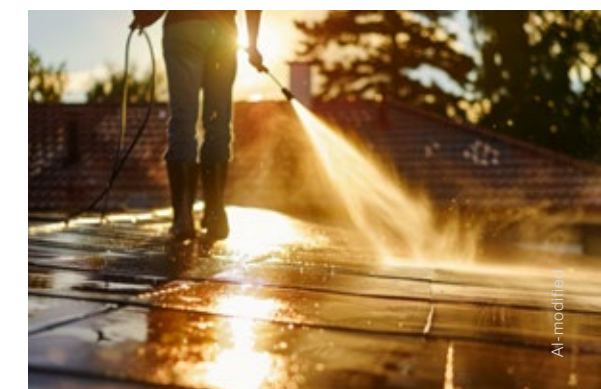
**Oertzen C310-21 E
C350-21 E
C500-16 E**

Technical data	
Working pressure	310 – 500 bar
Flow rate	960 – 1,260 l/h
Voltage	400 Volt
Connected load	12.5 – 17.6 kW



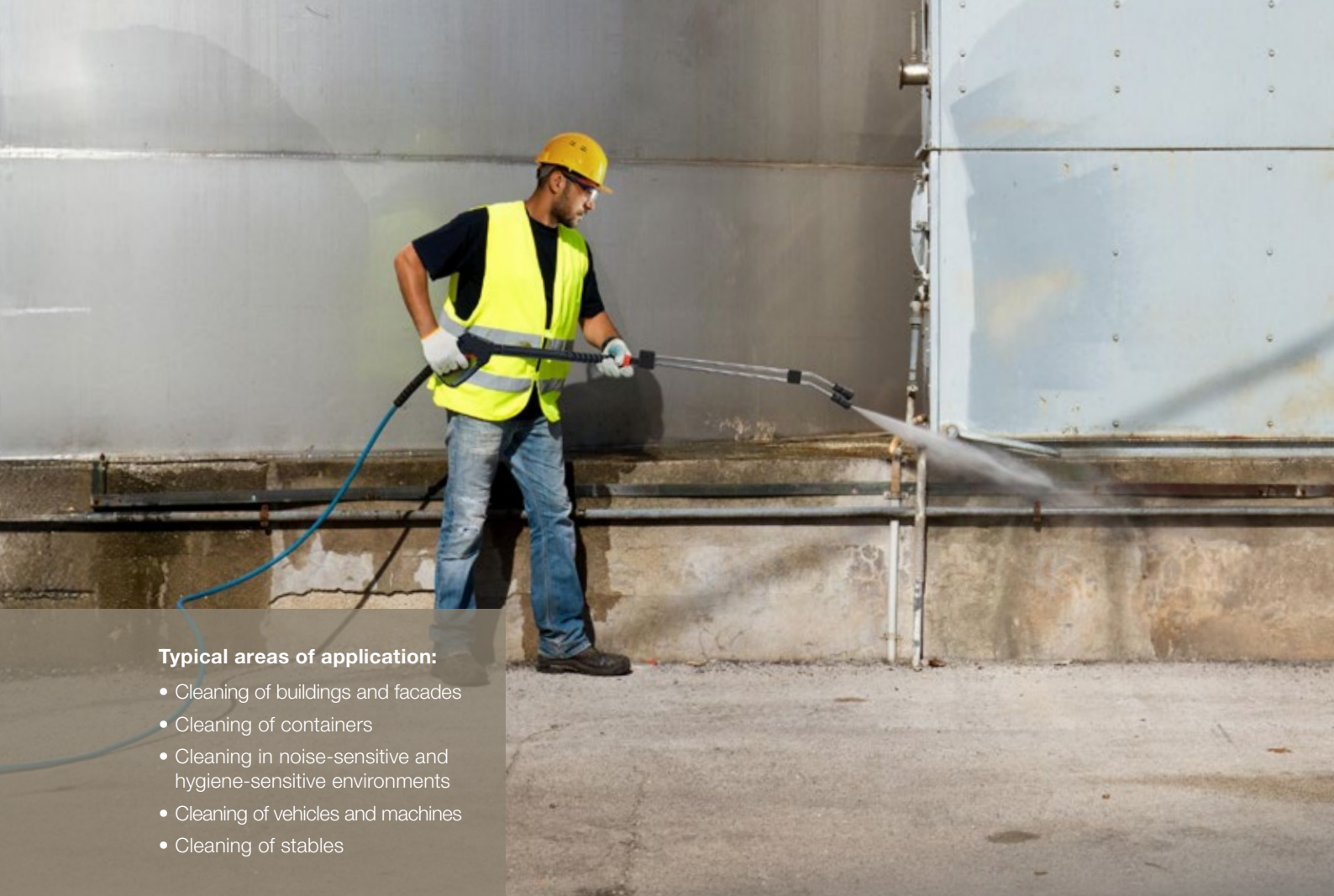
Oertzen C500-27 E

Technical data	
Working pressure	500 bar
Flow rate	1,620 l/h
Voltage	400 Volt
Connected load	32.1 kW



Roof cleaning

Thorough and pressure-regulated removal of moss, algae, dirt and other deposits, without damaging sensitive roofing materials due to thermal stress or high working pressure.



Typical areas of application:

- Cleaning of buildings and facades
- Cleaning of containers
- Cleaning in noise-sensitive and hygiene-sensitive environments
- Cleaning of vehicles and machines
- Cleaning of stables

Efficient and effective

The combination of heat, pressure and, if necessary, cleaning chemicals makes it possible to remove stubborn dirt such as caked-on grime, graffiti or dried mud more effectively. Hot water also dissolves grease and oil residues better.



Oertzen hot water high-pressure cleaners with electric motor

Electric-powered high-pressure cleaning with hot water is efficient and cost-effective. Electric motors operate without producing any exhaust emissions at the site of use, and the high water temperature reduces the amount of cleaning agents required, whilst at the same time meeting the highest hygiene standards.

Mobile hot water units



Oertzen H120-9 E.D

Technical data	
Working pressure	120 bar
Water temperature max. (oil-heated)	130 °C
Flow rate	540 l/h
Voltage	230 Volt
Connected load	2.8 kW



**Oertzen H170-13 E.D
H180-15 E.D**

Technical data	
Working pressure	170 – 180 bar
Water temperature max. (oil-heated)	130 °C – 140 °C
Flow rate	800 – 900 l/h
Voltage	400 Volt
Connected load	4.3 – 4.9 kW



Oertzen H200-21 E.D

Technical data	
Working pressure	200 bar
Water temperature max. (oil-heated)	140 °C
Flow rate	1,300 l/h
Voltage	400 Volt
Connected load	8.5 kW

Disinfection

Hot water effectively kills bacteria, viruses and fungi – without the need for chemicals. The electric drive means they can be operated without producing any exhaust emissions on site. This makes the high-pressure cleaners also suitable for use in commercial kitchens, food laboratories and stables, for example.

Container cleaning

Hot water high-pressure cleaners clean containers made of metal, plastic or coated materials particularly thoroughly and gently – right into every corner.

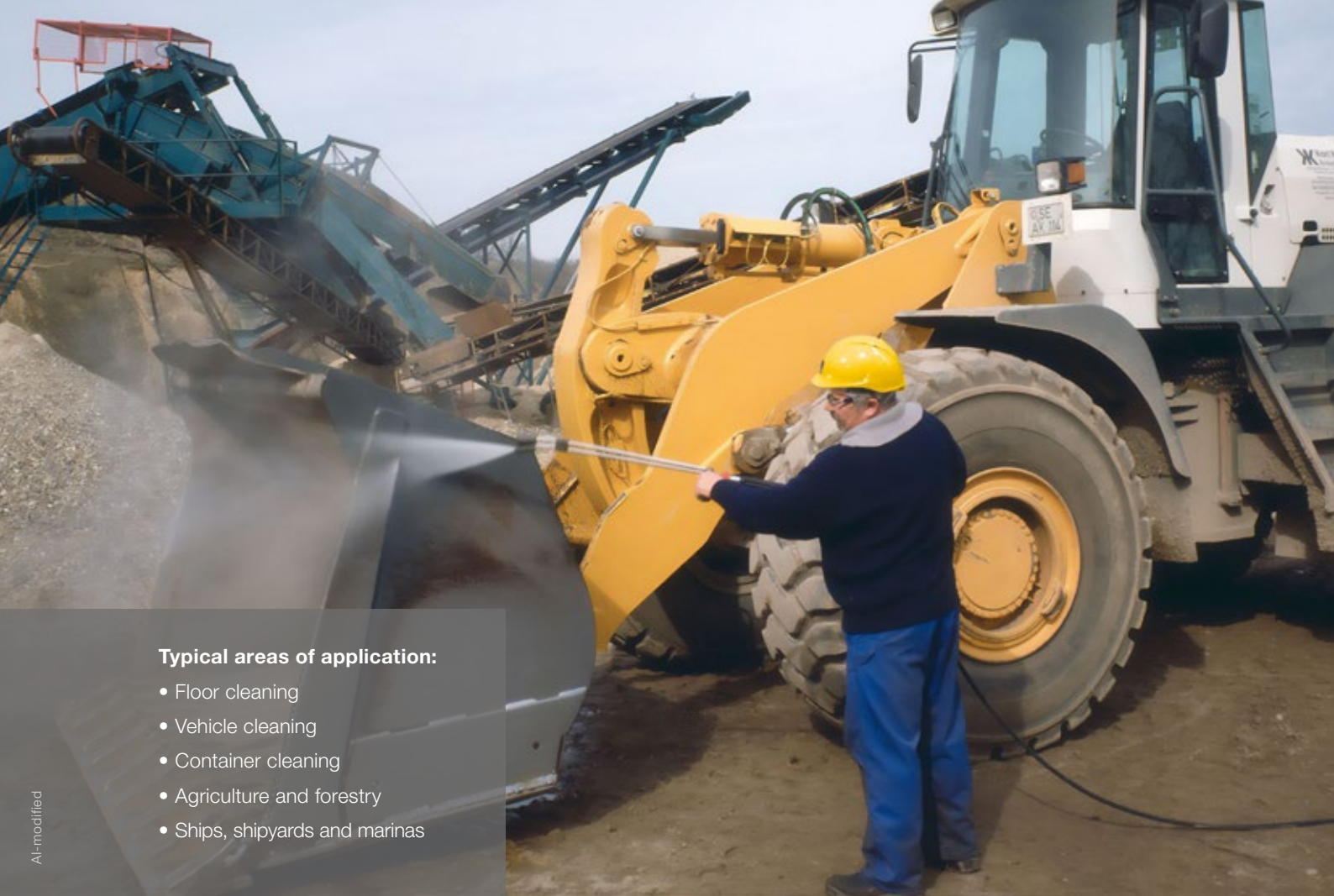
Stationary high-pressure cleaners

Cleaning stations are ideal for regularly recurring cleaning tasks, e.g., in stables, halls or for vehicles – individually equipped and expandable as required, for example with a second lance or additional water tank.



Oertzen H.S170-9 E

Technical data	
Working pressure	170 bar
Water temperature	delta T 30K
Flow rate	540 l/h
Voltage	400 Volt
Connected load	28 kW



Typical areas of application:

- Floor cleaning
- Vehicle cleaning
- Container cleaning
- Agriculture and forestry
- Ships, shipyards and marinas

Oertzen cold water high-pressure cleaners with combustion engines

Wherever mobility, high performance and independence of power sources are necessary, the robust all-rounders with petrol engines offer decisive advantages; for example, long, uninterrupted use on large areas.

Industrial class



Oertzen C230-21 P

Technical data	
Working pressure	230 bar
Flow rate	1,260 l/h
Type of drive	Petrol
Engine power output	11.9 kW

Oertzen C230-15 P

Technical data	
Working pressure	250 bar
Flow rate	900 l/h
Type of drive	Petrol
Engine power output	8.7 kW

Mobile and powerful

Thanks to their combustion engine, the cold water high-pressure cleaners can be used even in remote locations without a power supply, such as on farms, in forestry or on construction sites. The powerful cleaning performance removes even stubborn dirt such as oil, mud or construction site debris efficiently yet gently. Their mobility and high pressure performance make them the ideal choice for large-scale or intensive cleaning projects.



Use in shipyards

Stable, resilient, ideally suited for harsh working environments and particularly powerful when it comes to removing rust, paint and varnish, as well as grease and oil.

Ship cleaning

With their compact design, simple operation and ease of maintenance, Oertzen high-pressure cleaners ensure greater cleanliness and safety on ships.

High-performance class



Oertzen C500-16 P

Technical data	
Working pressure	500 bar
Flow rate	960 l/h
Type of drive	Petrol
Engine power output	17.2 kW

**Oertzen C310-21 P
C350-21 P**

Technical data	
Working pressure	310 – 350 bar
Flow rate	1,260 l/h
Type of drive	Petrol
Engine power output	17.2 kW



Oertzen hot water modules and accessories

Combined with modules or original accessories, Oertzen high-pressure cleaners are even more versatile in use, even more functional and even more efficient. For example, the Hotbox hot water modules turn certain cold water high-pressure cleaners into hot water high-pressure cleaners.

Hot water modules – Hotbox



Oertzen H.B250

Technical data	
Working pressure	230 bar
Water temperature max. (oil-heated)	150 °C
Flow rate	540 – 1,260 l/h
Voltage	230 Volt
Type of drive	Electric + Diesel



Oertzen H.B520

Technical data	
Working pressure	500 bar
Water temperature max. (oil-heated)	150 °C
Flow rate	600 – 1,260 l/h
Voltage	230 Volt
Type of drive	Electric + Diesel



Oertzen H.B20

Technical data	
Working pressure	20 bar
Water temperature max. (oil-heated)	120 °C
Flow rate	540 – 1,260 l/h
Voltage	230 Volt
Type of drive	Electric + Diesel



Scan the code and discover our range of accessories!

Even more flexible: with original accessories

With our wide range of perfectly matched original accessories, your high-pressure cleaner can be individually adapted to any cleaning task – for example, for even more targeted cleaning performance with special nozzles, greater reach with longer lances or to expand the range of applications beyond cleaning.



Turbo nozzle

For an optimal flushing and washing effect: special nozzles with a rotating spot jet and thus high impact pressure



Jet pipes

The perfect hand piece for every application: washing lances and double jet pipes with infinitely variable pressure regulation, available in various different lengths



Safety high-pressure guns

Comfortable and safe: ergonomically shaped with the best heat insulation and servo-assisted for fatigue-free working



Protective equipment

Well protected: durable, waterproof overalls, protective helmets, ear defenders and safety goggles



Floor cleaning trolleys

For non-slip floors: cleaning trolleys made of stainless steel with rotating nozzle elements



Hose reels

Easy to transport and store: with high-quality swivel joints for long high-pressure hoses, with spring balancer or for wall mounting





Solutions for, e.g.:

- Potentially explosive environments
- Water treatment
- High-pressure pipe cleaning
- Wood peeling
- Pipe jacking
- Agriculture/livestock farming

AI-modified

Oertzen customised solutions

For individual cleaning tasks

Oertzen high-pressure cleaners are always more than standard. Some cleaning tasks and areas of application are so specialised that the units themselves cannot be 100 % adapted to them even with our extensive range of accessories. As we strive for nothing less than maximum performance, cost-effectiveness and user-friendliness, we build the optimum unit for your needs – from high-pressure cleaners for potentially explosive environments to certified solutions for cleaning sewage systems including faeces tanks in aeroplanes – tailor-made, unique and effective.



Oertzen VacLav Cleaner

Complex pipe systems, narrow, winding places, deposits in areas that are difficult to access – cleaning vacuum toilet systems places specific demands on personnel and technology. To ensure that these sensitive systems function properly and hygienically at all times, we have developed a solution in the form of the Oertzen VacLav Cleaner, which cleans and disinfects the waste tank preventively and also clears blockages. The high-pressure cleaner Oertzen VacLav II removes urine scale from pipes with up to 400 bar working pressure and vacuums the loosened deposits. Both devices can be operated by only one person and are approved by renowned aircraft manufacturers.



Easily accessible

Simple operation



Oertzen VacLav I

Technical data	
Working pressure	210 bar
Flow rate	1,260 l/h
Type of drive	Electric

Oertzen VacLav II

Technical data	
Working pressure	400 bar
Flow rate max.	2,160 l/h
Water consumption vacuum injector	20 l/min
Injector pressure	200 bar
Type of drive	Electric

Hose reel with counter

For easier hose unrolling, optimised efficiency, and increased safety and control



Benefits:

- No set-up times
- Long throw range, low recoil
- Avoids damage caused by extinguishing water and water contamination
- Admixture of foam agents only when needed

Oertzen extinguishing technology

High-pressure extinguishing equipment for efficient firefighting without set-up times

Often fractions of a second determine whether a fire can be successfully extinguished. To ensure fast response in the case of fires, Oertzen high-pressure extinguishing equipment is always ready for immediate use, easy to handle and particularly efficient. The water is atomised by means of high-pressure technology. This allows it to evaporate faster and considerably improves the extinguishing effect – while significantly reducing water consumption and possible consequential damage.



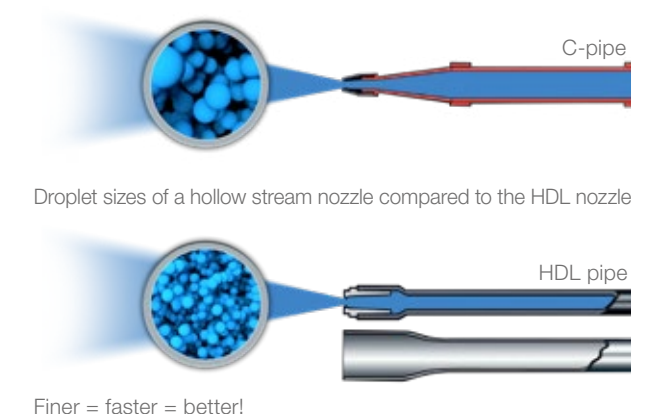
Quickly on site

From compact mobile versions to solutions optimally fitted into transport or emergency vehicles: Oertzen high-pressure extinguishing units are always quickly available where and whenever needed.



Fine atomisation of water for rapid extinguishing success

The atomisation of water into tiny droplets creates a larger surface area that absorbs heat more efficiently and displaces oxygen, thereby cooling and extinguishing the fire more quickly. This method not only significantly reduces water consumption, but also minimises water damage to buildings and inventory. In addition, the fine mist improves visibility for emergency crews and increases safety when fighting fires.





Original accessories for every application

Our accessories, which are perfectly matched to our high-pressure extinguishing units, make operations even more efficient, faster and safer. They also allow the equipment to be used in civil defence and disaster relief operations!



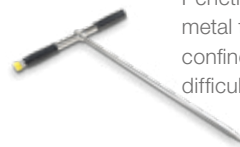
Triplex
Three spray patterns in one nozzle for quick changeover between fine mist, heavy foam and long-throw function



Medium foam pipe
Efficient firefighting with an optimal foam mixture, ideal for professional fire brigade operations



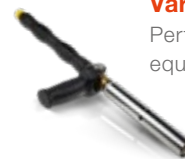
Duplex
Extinguishing with fine mist or heavy foam with maximum control over the spray pattern by simply swivelling



Piercing lance
Penetrates wood, glass and sheet metal to effectively extinguish fires in confined spaces or areas that are difficult to access



Water and sludge suction
For pumping up to 18,000 l/h of water with a delivery height of up to 5 m and large particle diameters



Vario lance
Perfect for cleaning vehicles and equipment efficiently yet gently

Oertzen high-pressure fire extinguishing equipment and accessories

High-pressure extinguishing equipment is used to extinguish fires involving solids (fire class A, primarily with water) and combustible liquids (fire class B, with the flexible and rapid addition of foaming agents possible).



Oertzen HDL200

Technical data	
Working pressure	200 bar
Flow rate	1,260 l/h
Type of drive	Petrol



Oertzen HDL250-23/32/42

Technical data	
Working pressure	130 – 230 bar
Flow rate	1,380 – 2,520 l/h
Type of drive	Petrol



Cleaning emergency vehicles
With the right accessories, Oertzen devices remove pollutants and residues of dirt and ash in the mechanical and electronic parts of the emergency vehicles effectively and quickly, while also conserving materials and resources.



Civil defence and disaster relief
To protect the population and infrastructure from danger in crisis and disaster situations and to support them, Oertzen equipment can be used, for example, to provide hot water for decontamination or disinfection or to suck up water and mud.



Benefits:

- Effective thermal weed control without the use of chemicals
- Versatile with three basic functions

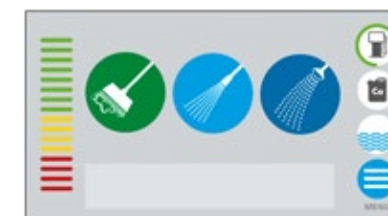
Weco weed control units

Combination units for weed control, high-pressure cleaning and irrigation

Weed removal, cleaning and irrigation: the maintenance of outdoor areas is diverse – and an important task for municipalities, industry and commerce. With Weco weed control units with additional functions, this task can be carried out ecologically and economically. without the use of chemicals. All the functions of the Weco models are operated by a lithium iron phosphate battery.

Many tasks, one solution

At the push of a button, the Weco weed control unit turns into a high-pressure cleaner that quickly and reliably achieves excellent cleaning results. Another adjustment and it can also be used to water plants. This means that three different working steps can be carried out in the same place in the same operation – saving time and money!



Cold and hot water high-pressure cleaning

Temperatures between 50 °C and 100 °C and working pressures between 50 and 70 bar, continuously adjustable for many cleaning tasks.

Thermal weed control

Effective against weeds with a constant high water temperature of 99 °C.

Irrigation

Care of urban greenery with a water output of 8 to 13 l/min and a powerful battery that lasts for up to a full working day.



Weed control



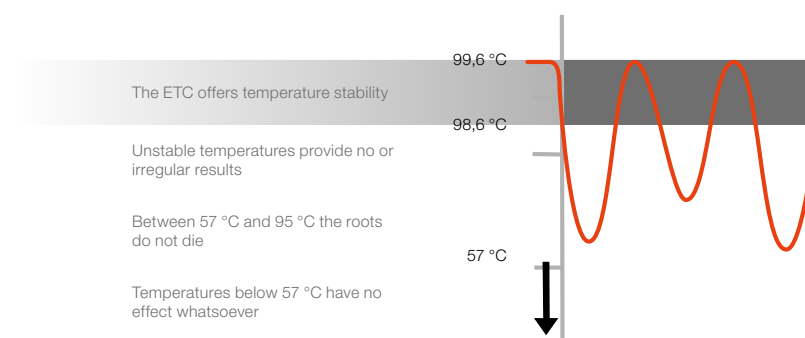
Irrigation



High-pressure cleaning

With thermal effect

If weed is treated with hot water at a constant temperature of over 99 °C, the plant grows back much more slowly or even dies completely. With their electronic temperature control (ETC), Weco units achieve consistent results with the longest possible lasting effect.





Weco M900 City

Technical data	Weed control	High-pressure cleaning	Irrigation
Water flow rate	14 l/min	8 l/min	15 l/min
Water pressure at the lance	0.1 +/-bar	50 – 70 bar (adjustable)	
Water temperature	99 °C	Cold or heating mode 50 – 100 °C (adjustable)	
Battery capacity	200 Ah		
Heating output	95 kW		
Volume water tank	500 l + 150 l		
Empty weight incl. battery	536 kg + 120 kg front mounting		
Noise level	< 65 db		
System voltage	24 V DC		
Diesel consumption (for the heating element)	8 kg/h		
Volume diesel tank	42 l		

The Weco M900 City is optimally matched to the Citymaster 1650. This means that a wide range of hot and cold water tasks can be carried out flexibly and on the move.

Systems with 350-litre water tanks

For precise work even in hard-to-reach areas, such as between flowerbeds and rubbish bins or on narrow paths: the Weco S350 Go, manoeuvrable with one hand, easy to move with a fixed substructure, the trailer-based Weco S350 T with a specially developed braked driving axle and integrated water tank, and the Weco S350 Skid with a fixed stainless-steel frame for easy transport.



Systems with 500- and 1,000-litre water tanks

Increased water output for use on larger areas: the Weco M500 Skid and Weco M1000 Skid models have large water tanks with volumes of 500 resp. 1,000 litres. Thanks to their fixed stainless-steel frame, they can be quickly and conveniently transported from one job site to the next.



Weco M500 Skid

Technical data	Weed control	High-pressure cleaning	Irrigation
Water flow rate	10 l/min	13 l/min	10 – 13 l/min
Water pressure at the lance	0.1 +/-bar	50 – 70 bar (infinitely adjustable)	
Water temperature	99 °C	50 – 100 °C (infinitely adjustable)	
Battery capacity	350 Ah		
Heating output	73 kW		
Volume water tank	500 l		
Dimensions (L x W x H)	1,650 x 1,000 x 950 mm		
Empty weight incl. battery	450 kg		
Noise level	< 58 db		
System voltage	24 V DC		
Diesel consumption (for the heating element)	6.0 kg/h		
Volume fuel tank	42 l		



Weco M1000 Skid

Technical data	Weed control	High-pressure cleaning	Irrigation
Water flow rate	10 l/min	13 l/min	10 – 13 l/min
Water pressure at the lance	0.1 +/-bar	50 – 70 bar (infinitely adjustable)	
Water temperature	99 °C	50 – 100 °C (infinitely adjustable)	
Battery capacity	350 Ah		
Heating output	73 kW		
Volume water tank	1,000 l		
Dimensions (L x W x H)	2,250 x 1,270 x 950 mm		
Empty weight incl. battery	550 kg		
Noise level	< 58 db		
System voltage	24 V DC		
Diesel consumption (for the heating element)	6.0 kg/h		
Volume diesel tank	42 l		



Weco S350 Go

Technical data	Weed control	High-pressure cleaning	Irrigation
Water flow rate	6.5 l/min	8 l/min	8 – 10 l/min
Water pressure at the lance	0.1 +/-bar	50 – 70 bar (infinitely adjustable)	
Water temperature	99 °C	50 – 100 °C (infinitely adjustable)	
Battery capacity	350 Ah		
Heating output	42 kW		
Volume water tank	350 l		
Dimensions (L x W x H)	2,200 x 750 x 1,400 mm		
Empty weight incl. battery	370 kg		
Noise level	< 58 db		
System voltage	24 V DC		
Diesel consumption (for the heating element)	4.50 kg/h		
Volume diesel tank	22 l		



Weco S350 T

Technical data	Weed control	High-pressure cleaning	Irrigation
Water flow rate	6.5 l/min	8 l/min	8 – 10 l/min
Water pressure at the lance	0.1 +/-bar	50 – 70 bar (infinitely adjustable)	
Water temperature	99 °C	50 – 100 °C (infinitely adjustable)	
Battery capacity	350 Ah		
Heating output	42 kW		
Volume water tank	350 l		
Dimensions (L x W x H)	2,993 x 1,210 x 1,292 mm		
Empty weight incl. battery	370 kg		
Noise level	< 58 db		
System voltage	24 V DC		
Diesel consumption (for the heating element)	4.50 kg/h		
Volume diesel tank	22 l		

Service from the professionals makes the difference!

Excellent service from Hako turns a premium quality machine into a top solution that fulfils all your requirements: with competent service technicians in the field, in fully equipped workshops, with a regular contact person and with uncomplicated, solution-oriented processing of your service requests.



Customer service – full availability, full security

Our qualified service technicians are available for you around the clock. Another big plus: our efficient spare parts logistics, which delivers spare parts overnight if the worst comes to the worst.

Customised and scalable services for:

- Maximum machine availability and high efficiency
- Cost transparency and greater cost-effectiveness
- Improved quality of results
- Sustainability in use and through extended service life and value retention of your machine



220 mobile service technicians with the shortest response times

- Qualified service technicians – optimally prepared thanks to efficient deployment planning
- Fully equipped service vehicles with suitable spare parts for all common service cases
- Fast and professional troubleshooting



Service is our DNA

Your satisfaction is our benchmark. That's why you get much more than a top product from Hako: you get a solution that always fits perfectly; to suit you, your goals, the area of application and our machines.

Renting instead of buying!

- Short-term hire for increased flexibility – the fleet can be quickly adapted to changing needs
- Always the latest technology at hand
- Lower investment costs and thus protection of liquidity
- Cost certainty and predictability
- All-round carefree package with maintenance and service contracts





Hako

Quality of life for all through cleanliness and safety

For around 80 years, Hako has been providing innovative machines and services in the Cleaning and Municipal Technology sectors. The company is one of the leading manufacturers of machines for industrial, building and outdoor cleaning, as well as grounds maintenance and winter services. New solutions in the fields of autonomy, electromobility and digitalisation complement the portfolio. Hako stands for high product quality and reliable service. Sustainability requirements are addressed through continuous product and technology development.



We are also active in the Municipal Technology sector

Our flexible, manoeuvrable sweepers and compact, multifunctional implement carriers and municipal vehicles ensure clean and safe public spaces all year round – supported by efficient weed control equipment to maintain a well-kept urban environment.

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For the sake of readability, Hako has opted for gender-neutral terminology throughout this document. This includes all people, regardless of their gender or identity.

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