

# Hako

Cleaning Technology  
Municipal Technology  
Waterjet Technology



# ETOP

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## **Oertzen high-pressure cleaners** *Professional systems for industry and commerce*

*Versatile. Reliable. Powerful.*

# OERTZEN

## Cold water units with electric motors

High continuous performance with electrical energy from a mains supply – low-emission, sustainable, reliable

Alternating current 230 V / 1-50 Hz		Three-phase current 400 V / 3-50 Hz							
		16 A		32 A		63 A			
C170-9 E C140-12 E	C.X305								
		C.X322	C210-16 E	C230-15 E C150-21 E C230-21 E	C.S170-9 E C.S140-12 E C.S120-15 E C.S210-15 E C.S210-21 E	C120-50 E C310-21 E C210-30 E C385-21 E C500-16 E	C.S310-21 E C.S210-30 E C.S120-30 E C.S120-50 E	C500-27 E	C1000-16 E







## Hot water units with electric motors

Particularly effective cleaning with comparatively low working pressure – effective, time- and resource-saving

Alternating current 230 V / 1-50 Hz		Three-phase current 400 V / 3-50 Hz					
		16 A		32 A		63 A	
Cold water unit + Hotbox see modules							
H120-9 E.D		H170-13 E.D H180-15 E.D	H210-15 E.D	H.S160-16 E.D H.S165-18 E.D	H200-21 E.D	H.S170-9 E	

## Cold water units with combustion engines




High flexibility due to mains-independent use – powerful, economical, uncomplicated

Petrol			Diesel		
					
C230-15 P	C250-15 P C230-21 P C200-21 P	C310-21 P C210-30 P C385-21 P C500-16 P	C210-15 D	C500-17 D	C500-33 D* C1000-20 D*

\* No EU authorization















## Hot water units with combustion engines

Power-independent for demanding tasks in industrial environments – robust, flexible, sustainable

Petrol		Diesel	
			
H180-18 P.D		H300-21 D	H.T350-23 D H.T500-30 D

## Modules and accessories

Perfect fit: modules and original accessories for more functionality, application diversity and efficiency

							
H.B250	H.B520	H.B20	Hose reels: spring balancer / portable / mobile / stainless steel	Floor and wall cleaner	Trolley for professional series	Sandblasting: MONSUN / MONSUN VARIO / TORNADO	Mud vacuum cleaner
							
Tank interior cleaner (TIR)	Pipe cleaning	Manhole cleaner / fog blower	Milling cutter / turbo cutter / nozzles ...	guns / lances / extensions	Protective equipment (PSA) Suit/overall Apron Boots Gaiters Arm protection Gloves		

# Wide range of applications thanks to a large selection

Hako offers a wide range of effective, reliable and economical Oertzen high-pressure cleaners for a wide variety of applications and all cleaning tasks.



Type	Working pressure bar max.	Flow rate l/h max.	Water temp. °C max.	Pump speed 1/min	Normal voltage	Drive type	Connected load kW	Drive power kW	Thermo valve	Weight kg
<b>Compact class cold water units with electric motor</b>										
OERTZEN C.X305	600	160	-	2,800	230 V / 1-50 Hz	Electric	3	-	-	24
OERTZEN C.X322	960	190	-	1,420	400 V / 3-50 Hz	Electric	5.1	-	-	75
OERTZEN C210-16 E	960	210	-	1,450	400 V / 3-50 Hz	Electric	6.4	-	-	68
<b>Cold water units up to 190 bar with electric motor</b>										
OERTZEN C140-12 E	720	140	-	1,420	230 V / 1-50 Hz	Electric	3.5	-	opt.	39.5
OERTZEN C170-9 E	540	170	-	1,420	230 V / 1-50 Hz	Electric	3.5	-	opt.	39.5
OERTZEN C150-21 E	1,260	160	-	1,420	400 V / 3-50 Hz	Electric	6.5	-	+	85
OERTZEN C120-50 E	3,000	120	-	1,400	400 V / 3-50 Hz	Electric	12.5	-	+	126
<b>Cold water units from 200 to 400 bar with electric motor</b>										
OERTZEN C210-30 E	1,800	210	-	1,400	400 V / 3-50 Hz	Electric	12.5	-	+	126
OERTZEN C230-15 E	900	230	-	1,420	400 V / 3-50 Hz	Electric	6.5	-	+	85
OERTZEN C230-21 E	1,260	230	-	1,440	400 V / 3-50 Hz	Electric	8.9	-	+	108
OERTZEN C310-21 E	1,260	310	-	1,400	400 V / 3-50 Hz	Electric	12.5	-	+	126
OERTZEN C385-21 E	1,260	385	-	1,450	400 V / 3-50 Hz	Electric	17.6	-	+	164
<b>Cold water units from 500 bar with electric motor</b>										
OERTZEN C500-16 E	960	500	-	1,450	400 V / 3-50 Hz	Electric	17.6	-	+	168
OERTZEN C500-27 E	1,620	500	-	1,450	400 V / 3-50 Hz	Electric	28	-	+	260
OERTZEN C1000-16 E	960	1,000	-	980	400 V / 3-50 Hz	Electric	33	-	-	460
<b>Hot water units with electric motor</b>										
OERTZEN H120-9 E.D	540	120	140	2,800	230 V / 1-50 Hz	Electric + Diesel	2.8	-	-	80
OERTZEN H170-13 E.D	780	170	130	2,800	400 V / 3-50 Hz	Electric + Diesel	4.3	-	-	90
OERTZEN H180-15 E.D	900	180	140	1,400	400 V / 3-50 Hz	Electric + Diesel	5.2	-	-	120
OERTZEN H210-15 E.D	900	210	140	1,420	400 V / 3-50 Hz	Electric + Diesel	6.9	-	-	145
OERTZEN H200-21 E.D	1,260	200	140	1,400	400 V / 3-50 Hz	Electric + Diesel	8.5	-	-	172
<b>Stationary units</b>										
OERTZEN C.S140-12 E	720	120	-	1,420	400 V / 3-50 Hz	Electric	3.5	-	+	52
OERTZEN C.S170-9 E	540	170	-	1,420	400 V / 3-50 Hz	Electric	3.5	-	+	52
OERTZEN C.S120-15 E	900	120	-	1,420	400 V / 3-50 Hz	Electric	6.5	-	+	96
OERTZEN C.S120-21 E	1,260	120	-	1,420	400 V / 3-50 Hz	Electric	6.5	-	+	96
OERTZEN C.S210-15 E	900	210	-	1,420	400 V / 3-50 Hz	Electric	6.5	-	+	96
OERTZEN H.S160-16 E.D	960	160	140	1,420	400 V / 3-50 Hz	Electric + Diesel	7.2	-	-	201
OERTZEN H.S165-18 E.D	1080	165	140	1,420	400 V / 3-50 Hz	Electric + Diesel	7.2	-	-	201
OERTZEN C.S210-21 E	1,260	210	-	1,440	400 V / 3-50 Hz	Electric	8.9	-	+	102
OERTZEN C.S120-30 E	1,800	120	-	1,400	400 V / 3-50 Hz	Electric	12.5	-	+	128
OERTZEN C.S120-50 E	3,000	120	-	1,400	400 V / 3-50 Hz	Electric	12.5	-	+	146
OERTZEN C.S210-30 E	1,800	210	-	1,400	400 V / 3-50 Hz	Electric	12.5	-	+	128
OERTZEN C.S310-21 E	1,260	310	-	1,400	400 V / 3-50 Hz	Electric	12.5	-	+	128
OERTZEN C.S310-21 E	1,260	310	-	1,400	400 V / 3-50 Hz	Electric	12.5	-	+	128
OERTZEN H.S170-9 E	540	170	delta 35	1,450	400 V / 3-50 Hz	Electric	28	-	-	90
<b>Cold water units with combustion engine</b>										
OERTZEN C210-15 D	900	210	-	1,450	-	Diesel	-	6.8	+	126
OERTZEN C230-15 P	900	250	-	3,400	-	Petrol	-	8.7	-	79
OERTZEN C230-21 P	1,260	230	-	1,420	-	Petrol	-	10.3	+	105
OERTZEN C200-21 P	1,260	200	-	1,420	-	Petrol	-	10.3	+	66
OERTZEN C250-15 P	900	250	-	3,400	-	Petrol	-	10.4	+	81
OERTZEN C310-21 P	1,260	310	-	1,420	-	Petrol	-	16.9	+	160
OERTZEN C210-30 P	1,800	210	-	1,420	-	Petrol	-	16.9	+	160
OERTZEN C385-21 P	1,260	385	-	1,420	-	Petrol	-	16.9	+	160
OERTZEN C500-16 P	960	500	-	1,420	-	Petrol	-	16.9	+	166
OERTZEN C500-17 D	1,020	500	-	1,450	-	Diesel	-	18.6	+	350
OERTZEN C500-33 D*	1,980	500	-	1,450	-	Diesel	-	37.3	+	725
OERTZEN C1000-20 D*	1,200	1,000	-	1,450	-	Diesel	-	37.3	-	725
<b>Compact class hot water units with combustion engine</b>										
OERTZEN H180-18 P.D	1,080	180	98	1,450	-	Petrol + Diesel	-	11.7	+	360
OERTZEN H300-21 D	1,260	300	95	1,450	-	Diesel	-	18	+	423
<b>Trailers</b>										
OERTZEN H.T350-23 D	1,380	350	120	1,750	-	Diesel	-	26	+	900
OERTZEN H.T500-30 D	1,800	500	120	1,750	-	Diesel	-	33	+	1,050
<b>Hot Boxes</b>										
OERTZEN H.B 250	540 – 1,260	230	150	-	230 V / 1-50 Hz	Electric + Diesel	-	-	-	105
OERTZEN H.B 520	600 – 1,260	500	150	-	230 V / 1-50 Hz	Electric + Diesel	-	-	-	108
OERTZEN H.B 20	540 – 1,260	20	120	-	230 V / 1-50 Hz	Electric + Diesel	-	-	-	93
<b>Special applications</b>										
OERTZEN C200-21 Z	1,260	200	-	540	-	PTO shaft	-	-	-	50

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