

*Cleaning Technology  
Municipal Technology  
Waterjet Technology*

***Hako***



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

*Versatile. Reliable. Powerful.*

Interim version



# 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<br>C140-12 E   | C.X305  |  |  |  |  |  |  |  |  |
|   |   | C.X322   | C210-16 E   | C230-15 E<br>C150-21 E<br>C230-21 E   | C.S170-9 E<br>C.S140-12 E<br>C.S120-15 E<br>C.S210-15 E<br>C.S210-21 E              | C120-50 E<br>C310-21 E<br>C210-30 E<br>C385-21 E<br>C500-16 E                       | C.S310-21 E<br>C.S210-30 E<br>C.S120-30 E<br>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<br>see modules   |  |  |  |  |  |  |  |
| H120-9 E.D  |  | H170-13 E.D<br>H180-15 E.D   | H210-15 E.D   | H.S160-16 E.D<br>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<br>C230-21 P<br>C200-21 P   | C310-21 P<br>C210-30 P<br>C385-21 P<br>C500-16 P                                     | C210-15 D  | C500-17 D  | C500-33 D*<br>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<br>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:<br>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)<br>Suit/overall<br>Apron<br>Boots<br>Gaiters<br>Arm protection<br>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<br>bar max. | Flow rate<br>l/h max. | Water temp.<br>°C max. | Pump speed<br>1/min | Normal voltage  | Drive type        | Connected<br>load kW | Drive power<br>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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