

## Application

- Water supply: filtration and trasfer at waterworks, regional water supply and pressure boosting in main pipe
- Industrial pressure boosting: Water system, cleaning system
- Industrial water supply: boiler feeding, cooling system, air
conditioning, transportation of light acid and alkal liquid
- Water treatment distillation systems, separators, swimming pools
- Agricultural irrigation, petrochemical industry, medicine and santation, etc.


## Operating Conditions

- Thin, clean, non-flammable and explosive, not containing
the liquid with solid particles and fibers
Liquid temperature: $-15^{\circ} \mathrm{C}-+80^{\circ} \mathrm{C}$
- Flow range: $0.7-132 \mathrm{~m}^{3} / \mathrm{h}$
- Head range: $9-58 \mathrm{~m}$
- Ambient temperature range: $-15^{\circ} \mathrm{C}-40^{\circ} \mathrm{C}$
- Max. operation: 10 bar
- Altitude: up to 1000 m
- Liquid PH valve: $3-9$


## Motor

- IE2 Motor (IE3 motor availableon request for power 29 2kw)
- Totally enclosed \& fan-cooled

Protection class: IP55

- Insulation class: $F$


## Ambient Temperature

Max. Ambient temperature: $+40^{\circ}$. Ambient temperature bove $40^{\circ} \mathrm{C}$, or installation at altitude of more than 1000 m above sea level, require the use of an oversize motor.
Because of low air density and poor cooling effects, the Because of low air density and poor cooling effects, the
motor output power $P 2$ will be decreased. See the picture.
or example, when the pump is installed at altitude of more han 3500 m above sea level, P2 will be decrease to $88 \%$. han to m above sea evel, 2 w will be decrease to $88 \%$.
When the ambient temperature is $70^{\circ} \mathrm{C}$, 22 will be decereased 78\%


Identification Codes


Accessories on Request

## Materials Table



| No. | Pat | Material |
| :---: | :---: | :---: |
| 1 | Pump body | O6Crasilo |
| 2 | Impeler | O6Crionilo |
| 3 | O-fing | NER |
| 4 | Support cover | O6Cri9Ni10 |
| 5 | Supoort | нт200 |
| 6 | Motor |  |
| 7 | Rotor | 06Cr19Ni0/45 |
| 8 | Nameplate | O6Cri9Ni10 |
| 9 | Guard plate | 06Cr9NVi10 |
| 10 | Mechanical seal |  |



How to Read The Curve Charts


## Characteristic Curves

| MODEL |  | Power |  | $\frac{a\left(m^{m} m\right)}{0}$ | 0 |  | 9 |  | 12 |  | 20 | 22 | 24 | ${ }^{27} \mid$ | O=DELIVERY30 |  |  |  | $6_{60}$ | 72 | so | 108 | 114 | 120 | 126 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CB5662 Standard | ENT33 Standard | kw | HP |  | 0 | 100 | 150 | 200 |  | 300 | 333 | 360 | 400 | 450 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1500 | 1800 | 1900 | 2000 | 2100 | 2200 |
| xzs50-32-125/11 |  | 1.1 | 1.5 |  | 24 | 21.5 | 520.5 | 519.5 | . 516 | 16 | 13 | . | - | - | - | - |  | - | - | - | - | - | - | - |  |  |
| XZS50-32-160/15 |  | 1.5 | 2 |  | 29.5 | 27 | 26 | 25 |  | 21 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| XZS50-32-160/22 |  | 2.2 | 3 |  | 37 | 33.5 | 532.5 | 532 | 28. | 28.5 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - |  |  |
| xzs50-32-200/30 |  | 3 | 4 |  | 45 | 41 | 40 | 38 |  | 34 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | - |  |  |
| xzs50-32-200/40 |  | 4 | 5.5 |  | 55 | 51 | 50 | 49 |  | 46 | 45 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| xzS66-50-125/15 | XZS65-40-125/15 | 1.5 | 2 |  | 20 | - | - | 19 |  | 18 | 17 | 16.5 | 15 | 14 | 12.5 | 10 | - | - | - | - | - | - | - | - | - | - |
| xzs65-50-125/22 | XZS65-40-125/22 | 2.2 | 3 |  | 26 | - | - | 23.5 |  | 22.5 | 22 | 21.5 | 21 | 20.5 | 19.5 | 16.5 | . | - | - | - | - | - | - | - | - |  |
| XZS66-50-160/30 | xZS65-40-160/30 | 3 | 4 |  | 31 | - | - | 29 | 27 | 27.5 | 27 | 26.5 | 25.5 | 25 | 24 | 22 | 19 | . | - | - | - | - | - | - | - |  |
| XzS65-50-160/40 | xZS65-40-160/40 | 4 | 5.5 |  | 39 | - | - | 35.5 |  | 34.5 | 34 | 33.5 | 32.5 | 32 | 31 | 29 | 26 | - | - | - | - | - | - | - |  |  |
| xzs65-40-200/55 |  | 5.5 | 7.5 |  | 47 | - | - | 43 |  | 42.5 | 42 | 41.5 | 41 | 40.5 | 39 | 37 | 33 | - | - | - | - | - | - | - |  | - |
| XzS65-40-20077 |  | 7.5 | 10 |  | 57 | - | - | 53 | 532 | 52.5 | 52 | 51 | 50 | 49 | 48 | 46.5 | 44.5 | - | - | - | - | - | - | - | - | - |
| xzs80-65-125/30 | XZS65-50-125/30 | 3 | 4 |  | 22.5 |  |  | - |  |  | - | - | 20 | 19.5 | 19 | 18.5 | 17.5 | 16 | 13 | 9 | - | - | - | - |  |  |
| xzs80-65-125/40 | XZS65-50-125/40 | 4 | 5.5 | H (m) | 25.5 | - | - | - | - | - | - | - | 23 | 22.5 | 22 | 21.5 | 20.5 | 20 | 17 | 13.5 | - | - | - | - |  |  |
| xzs80-65-160/55 | XZS65-50-160/55 | 5.5 | 7.5 |  | 33 | - | - | - | - | - | - | - | 29.5 | 29 | 28.5 | 28 | 27 | 26 | 24 | 20 | - | - | - | - | - |  |
| xzs80-65-16077 | XZS65-50-160/75 | 7.5 | 10 |  | 39 | - | - | - | - | - | - | - | 36 | 35 | 34.5 | 34 | 33.5 | 32.5 | 29 | 24 | - | - | - | - |  |  |
| *XZ880-50-200/92 | XzS66-50-200/92 | 9.2 | 12.5 |  | 53 | - | - | - | - | - | - | - | - | - | 48 | 47.5 | 46.5 | 44.5 | 39.5 | 34 | - | - | - | - |  |  |
| *XZS80-50-200/110 | XZS65-50-200/110 | 11 | 15 |  | 57.5 | . | - | - |  | - | - | - | - | - | 53 | 51 | 50.5 | 50 | 47 | 41 | - | - | - | - | - |  |
| xzs 100-80-125/40 |  | 4 | 5.5 |  | 20 | - | - | - | - | - | - | - | - | - | - | 17.5 | 16.5 | 15.5 | 14 | 12 | 7 | - | - | - |  |  |
| xzs100-80-125/55 |  | 5.5 | 7.5 |  | 23 | - | - | - | - | - | - | - | - | - | - | 21.5 | 20.5 | 20 | 18 | 16 | 12 | 7.5 | - | - | - |  |
| xZS 100-80-125/75 | xzs80-65-125/75 | 7.5 | 10 |  | 29 | - | - | - |  | - | - | - | - | - | - | 27.5 | 26.5 | 25.5 | 23.5 | 21.5 | 17.5 | 13 | 12 | - |  |  |
| *XZS100-80-160192 | xZS80-65-160/92 | 9.2 | 12.5 |  | 33 |  |  |  |  |  | - | - | - |  | - |  | 31 | 30 | 28 | 26 | 23 | . | - | - |  |  |
| *XZS 100-80-160/110 | \|zs80-65-160/110 | 11 | 15 |  | 38.5 | - | - | - | - | - | - | - | - | - | - | - | 36 | 35 | 33 | 31 | 28 | . | - | - | - | - |
| * XZS 100-65-200/150 |  | 15 | 20 |  | 47 | - | - | - | - | - | - | - | - | - | - | - | 44 | 43 | 41 | 39 | 36 | 32 | 30 | 28 | 26 | 23 |
| * xzS 100-65-200/185 |  | 18.5 | 25 |  | 53 | - | - | - |  |  | - | - | - | - | - | - | 51 | 50 | 49 | 48 | 45 | 41 | 39 | 37 | 35 | 33 |
| *xzS100-65-200/220 |  | 22 | 30 |  | 58 | - | - | - |  | - | - | - | - | - | - | - | 57 | 56 | 55 | 54 | 51 | 47 | 45.5 | 44 | 42 | 40 |

## Hydraulic Performance Curves





## Hydraulic Performance Curves

| XZS65-40/50 | $\sim 2900 \mathrm{rpm}$ |
| :---: | :---: |





## XZS

Stainless Steel Standard
Centrifugal Pump

## Hydraulic Performance Curves





## Hydraulic Performance Curves

| XZS65-50 | $\sim 2900 \mathrm{rpm}$ |
| :---: | :---: |




Stainless Steel Standard
Centrifugal Pump

## Hydraulic Performance Curves

| XZS80-50 | $\sim 2900 \mathrm{rpm}$ |
| :---: | :---: |





Hydraulic Performance Curves



| XZS80-65 | $\sim 2900 \mathrm{rpm}$ |
| :---: | :---: |

## XZS

## Hydraulic Performance Curves




## Hydraulic Performance Curves

| XZS100-65 | $\sim 2900 \mathrm{rpm}$ |
| :---: | :---: |





## XZS

Stainless Steel Standard
Centrifugal Pump

Hydraulic Performance Curves

| XZS100-80 |  |
| ---: | :--- |


(kW)


## Installation Sketch

## For model $\leq 7.5 \mathrm{kw}$



| Model | DN1 | DN2 |  | w | L1 | L2 | m1 | m2 | m1 | n2 | m | h2 | 2-s1 | 4.s2 | B | c | X | Bmax | Hmax |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| XZS50-32-125/11 | 50 | 32 | 80 | 205 | 140 | 190 | 70 | 122 | 205 | 240 | 112 | 140 | 2-812 | 4-815 | 65 | 12 | 127 | 240 | 250 | 475 |
| Xzs50-32-160/15 | 50 | 32 | 80 | 207 | 190 | 240 | 70 | 122 | 205 | 240 | 132 | 160 | 2-812 | 4-815 | 65 | 12 | 127 | 244 | 292 | 477 |
| XZS50-32-160/22 | 50 | 32 | 80 | 207 | 190 | 240 | 70 | 122 | 205 | 240 | 132 | 160 | 2-812 | 4-815 | 65 | 12 | 127 | 244 | 292 | 477 |
| XZS50-32-200/30 | 50 | 32 | 80 | 244 | 190 | 240 | 70 | 124 | 225 | 260 | 160 | 180 | 2-812 | 4-815 | 75 | 15 | 124 | 295 | 340 | 492 |
| XZS50-32-200/40 | 50 | 32 | 80 | 244 | 190 | 240 | 70 | 124 | 225 | 260 | 160 | 180 | 2-81 | 4.815 | 75 | 15 | 124 | 295 | 340 | 492 |
| XZS65-50-125/15 | 65 | 50 | 80 | 205 | 160 | 210 | 70 | 121 | 205 | 240 | 112 | 140 | 2-81 | 4-815 | 65 | 12 | 127 | 240 | 52 | 475 |
| xzs65-50-125/22 | 65 | 50 | 80 | 205 | 160 | 210 | 70 | 121 | 205 | 240 | 112 | 140 | 2-6 | 4-815 | 65 | 12 | 127 | 240 | 252 | 75 |
| xzs65-50-160/30 | 65 | 50 | 80 | 244 | 190 | 240 | 70 | 123 | 225 | 260 | 132 | 160 | 2 | 4-815 | 75 | 15 | 124 | 260 | 292 | 492 |
| XzS65-50-160/40 | 65 | 50 | 80 | 244 | 190 | 240 | 70 | 123 | 225 | 260 | 132 | 160 | 2-812 | $4-815$ | 75 | 15 | 124 | 260 | 292 | 492 |
| XZS65-40-200/55 | 65 | 40 | 40 | 246 | 212 | 265 | 70 | 146 | 245 | 280 | 160 | 180 | $2-812$ | $4-815$ | 70 | 15 | 142 | 295 | 340 | 563 |
| Xzs65-40-200/75 | 65 | 40 | 40 | 246 | 212 | 265 | 70 | 146 | 245 | 280 | 160 | 180 | 2-812 | $4-815$ | 70 | 15 | 142 | 295 | 340 | 563 |
| xzs80-65-125/30 | 80 | 65 | 65 | 254 | 190 | 240 | 70 | 158 | 225 | 260 | 132 | 160 | 2-8 | 4-81 | 75 | 15 | 124 | 260 | 292 | 522 |
| XzS80-65-125/40 | 80 | 65 | 65 | 254 | 190 | 240 | 70 | 158 | 225 | 260 | 132 | 160 | 2-812 | 4-®15 | 75 | 15 | 124 | 260 | 292 | 522 |
| XZS80-65-160/55 | 80 | 65 | 65 | 256 | 212 | 265 | 70 | 150 | 245 | 280 | 160 | 180 | 2-812 | $4-815$ | 70 | 15 | 142 | 280 | 340 | 573 |
| Xzs80-65-160/75 | 80 | 65 | 65 | 256 | 212 | 265 | 70 | 150 | 245 | 280 | 160 | 180 | 2-81 | 4-81 | 70 | 15 | 142 | 280 | 340 | 573 |
| XZS100-80-125/40 | 100 | 80 | 80 | 256 | 212 | 280 | 95 | 155 | 225 | 260 | 160 | 180 | 2-812 | 4-815 | 75 | 15 | 124 | 280 | 340 | 524 |
| xZS100-80-125/55 | 100 | 80 | 80 | 258 | 212 | 280 | 95 | 155 | 245 | 280 | 160 | 180 | 2-812 | 4-®15 | 70 | 15 | 142 | 280 | 340 | 575 |
| XzS100-80-125/75 | 100 | 80 | 80 | 258 | 212 | 280 | 95 | 155 | 245 | 280 | 160 | 180 | 2-812 | $4-815$ | 70 | 15 | 142 | 280 | 340 | 575 |
| XZS65-40-125/15 | 65 | 40 | 80 | 205 | 160 | 210 | 70 | 121 | 205 | 240 | 112 | 140 | $2-8$ | 4-815 | 65 | 12 | 127 | 240 | 252 | 475 |
| XZS65-40-125/22 | 65 | 40 | 80 | 205 | 160 | 210 | 70 | 121 | 205 | 240 | 112 | 140 | 2-812 | 4-815 | 65 | 12 | 127 | 240 | 252 | 475 |
| XZS65-40-160/30 | 65 | 40 | 80 | 244 | 190 | 240 | 70 | 123 | 225 | 260 | 132 | 160 | 2-8 | 4-815 | 75 | 15 | 124 | 260 | 292 | 492 |
| XZS65-40-160/40 | 65 | 40 | 80 | 244 | 190 | 240 | 70 | 123 | 225 | 260 | 132 | 160 | 2-8 | 4-61 | 75 | 15 | 124 | 260 | 292 | 492 |
| xzs65-50-125/30 | 65 | 50 | 100 | 254 | 190 | 240 | 70 | 158 | 225 | 260 | 132 | 160 | 2-812 | 4-815 | 75 | 15 | 124 | 260 | 292 | 522 |
| XZS65-50-125/40 | 65 | 50 | 100 | 254 | 190 | 240 | 70 | 158 | 225 | 260 | 132 | 160 | 2-812 | 4-815 | 75 | 15 | 124 | 260 | 292 | 522 |
| XZS65-50-160/55 | 65 | 50 | 100 | 256 | 212 | 265 | 70 | 150 | 245 | 280 | 160 | 180 | 2-8 | 4-®15 | 70 | 15 | 142 | 280 | 340 | 573 |
| XZS65-50-160/75 | 65 | 50 | 100 | 256 | 212 | 265 | 70 | 150 | 245 | 280 | 160 | 180 | 2-812 | 4-815 | 70 | 15 | 142 | 280 | 340 | 573 |
| xzs80-65-125/75 | 80 | 65 | 100 | 258 | 212 | 280 | 95 | 155 | 245 | 280 | 160 | 180 | 2-812 | 4-815 | 70 | 15 | 142 | 280 | 340 | 575 |

## XZS

Stainless Steel Standard
Centrifugal Pump

Installation Sketch
For model $\geq 9.2 \mathrm{kw}$


|  | DN1 | DN2 |  | w1 | w2 | L1 | L2 | m1 | m2 | m3 | m4 | 11 | n |  | h2 | 4-S1 | 4.s2 | B1 |  |  |  | x |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| XZS80-50-200/2 | 80 | 50 | 00 | 314 |  | 212 | 26 | 70 | 146 | 210 | 260 | 254 | 320 | 160 | 200 | 4-¢14.5 | 4-ه14 | 65 |  | 20 |  | 260 | 350 | 420 |  |
| XzS80-50-200/110 | 80 | 50 | 100 | 314 |  | 212 | 26 | 70 | 146 | 210 | 260 | 254 | 320 | 160 | 20 |  |  | 65 |  | 20 |  | 260 | 350 | 420 |  |
| xzS100-80-160/92 | 100 | 80 | 100 | 321 |  | 212 | 280 | 95 | 155 | 26 | 210 | 254 | 320 | 160 | 20 | 4-¢14.5 | 4-¢14 | 65 |  | 20 |  | 260 | 350 | 420 |  |
| XZS100-80-160/110 | 100 | 80 | 100 | 321 | - | 212 | 28 | 95 | 155 | 260 | 210 | 254 | 320 | 160 | 200 | 4-Ф14 | 4- - | 65 |  | 20 |  | 260 | 350 | 420 |  |
| XzS100-65-200/150 | 100 | 65 | 100 |  | 581 | 250 | 320 | 95 | 155 | 310 |  | 254 | 314 | 180 | 22 |  | 4-¢ | 60 | 14.5 |  | 20 | 260 | 350 | 440 |  |
| XzS100-65-200/185 | 100 | 65 | 100 | - | 625 | 250 | 32 | 95 | 155 | 354 |  | 254 | 314 | 180 | 225 |  |  | 60 | 14.5 |  | 20 | 260 | 350 | 440 |  |
| XZS100-65-200/220 | 100 | 65 | 100 | 334 | - | 250 | 320 | 95 | 155 | 311 | 241 | 279 | 355 | 180 | 225 | 4-¢14 | 4-¢14 | 70 |  |  |  | 280 | 355 | 460 |  |
| XZS65-50-200/92 | 65 | 50 | 100 | 314 |  | 212 | 26 | 70 | 146 | 210 | 260 | 254 | 320 | 160 |  | -¢ | 4-ه15 | 65 |  |  |  | 260 | 350 | 420 |  |
| XZS65-50-200/110 | 65 | 50 | 100 | 314 |  | 212 | 265 | 70 | 146 | 210 | 260 | 254 | 320 | 160 | 200 | 4-¢14.5 | 4-ه15 | 65 |  |  |  | 260 | 350 | 420 |  |
| XZ | 80 | 65 | 100 | 321 |  | 212 | 280 | 95 | 155 | 260 | 210 | 254 | 320 | 0 | 200 | 4-¢ | 4-\$15 | 65 |  |  |  | 260 | 350 | 420 |  |
| xzS80-65-160/110 | 80 | 65 | 100 | 321 |  | 212 | 280 | 95 | 155 | 260 | 210 | 254 | 320 | 160 |  |  |  | 65 |  |  |  | 260 | 350 | 420 |  |

## Flange Dimensions

| - | PN16 FLANGES |  |  |  |  |  |  | PN16 FLANGES |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\pm$ | DN | D | m | c |  |  | $\begin{array}{\|c\|} \hline \text { Max. } \\ \hline \text { Thickness } \\ \hline 14 \\ \hline \end{array}$ |  |  |  |  |  |  |  |  |
| 8 | ¢32 | 140 | 100 | 76 | 4 | 18 |  |  |  |  |  |  |  |  |  |
| (0) | 940 | 150 | 110 | 84 | 4 | 18 | 14.5 | ) | dN | D | m | ${ }^{\circ}$ | H |  | Thickness |
| - 0 | 250 | 165 | 125 | 99 | 4 | 18 | 15 | O) | 8100 | 220 | 180 | 152 | 8 | 18 | 18 |
|  | ¢65 | 185 | 145 | 118 | 4 | 18 | 16 | ${ }^{*}$ |  |  |  |  |  |  |  |
| $\stackrel{-}{-\mathrm{on}} \mathrm{m}$ | ¢80 | 200 | 160 | 132 | 4 | 18 | 18 | on |  |  |  |  |  |  |  |

## Genera

The series of intelligent pressure boosting system BWS-HY is developed based on PID control technology, to control the pump pressure within a certain range according to the water consumption and easy maintenance.

## About BWS

BWS, the abbreviation of Building Water System or Best Water ystem, implies the LEO's ambition to build up the image of best quality product range for water supply system in the market.
BWS series includes WG Non-negative Water Supply System, WX Water Non-negative Supply System, HY Constant Water Supply System and ZY Boosting Water Supply System. Together with WQ sewage pumps, XBD firefighting pumps, LPP in-line pumps and LEN end suction pumps, we have full range to satisfy the applications of secondary water supply, drainage, fire-fighting and HVAC.

Product Composition
The complete device is composed from a pump unit, a pressure tank, pressure sensor, PID and accessories. If necessary, auxiliary pumps or pressure tanks can be added in the device.

## Identification Codes

BWS - HY (E) 2LVS15-8 / LVS3-10


