



1.1kW-7.5kW

9.2kW-22kW

### Application

- Water supply: filtration and transfer 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 alkali liquid
- Water treatment: distillation systems, separators, swimming pools
- Agricultural irrigation, petrochemical industry, medicine and sanitation, etc.

### Operating Conditions

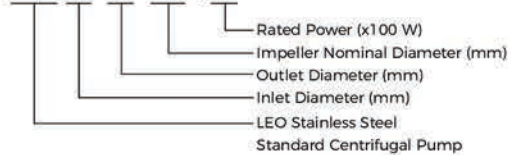
- Thin, clean, non-flammable and explosive, not containing the liquid with solid particles and fibers
- Liquid temperature: -15°C - +80°C
- Flow range: 0.7 - 132 m<sup>3</sup>/h
- Head range: 9 - 58 m
- Ambient temperature range: -15°C - +40°C
- Max. operating pressure: 10 bar
- Altitude: up to 1000 m
- Liquid PH value: 3 - 9
- Max. ambient temperature: +40°C

### Motor

- IE2 Motor (IE3 motor available on request for power ≥ 9.2kW)
- Totally enclosed & fan-cooled
- Enclosures class: IP55
- Insulation class: F

### Identification Codes

**XZS 65- 50- 160 / 40**



### Accessories on Request



AISI304 Threaded flange

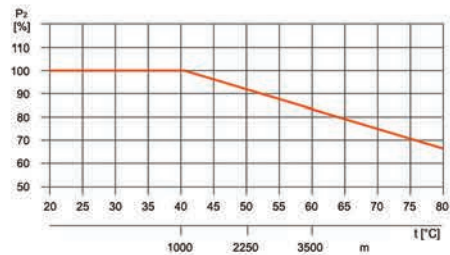


Flange gasket

### Ambient Temperature

Max. Ambient temperature: +40°C. Ambient temperature above 40°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 motor output power P2 will be decreased. See the picture.

For example, when the pump is installed at altitude of more than 3500 m above sea level, P2 will be decreased to 88%. When the ambient temperature is 70°C, P2 will be decreased to 78%.



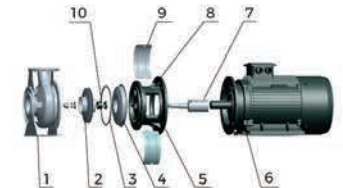
### Material Table

#### 1.1kW - 7.5kW

No.	Part	Material	No.	Part	Material
1	Pump body	AISI 304	11	Fan	PP
2	Impeller	AISI 304	12	Fan cover	PP-GF15
3	O-ring	NBR	13	Rear cover	ZL102
4	Support	HT200	14	Nameplate	AISI 304
5	Oil seal		15	Stator	
6	Bearing		16	Terminal cover	ZL102
7	Rotor		17	Terminal board	
8	Stand	HT200	18	Cable holder	
9	Bearing		19	Support cover	AISI 304
10	Oil seal		20	Mechanical seal	

#### 9.2kW - 22kW

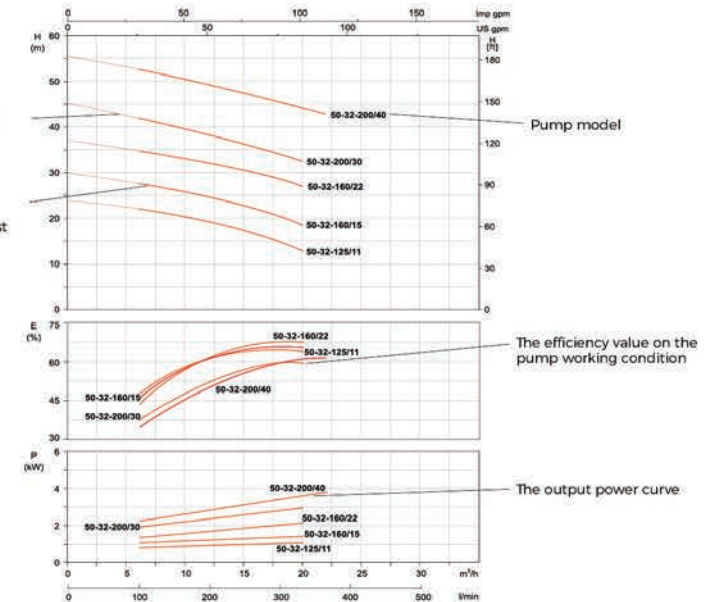
No.	Part	Material
1	Pump body	AISI 304
2	Impeller	AISI 304
3	O-ring	NBR
4	Support cover	AISI 304
5	Support	HT200
6	Motor	
7	Rotor	AISI 304/45
8	Nameplate	AISI 304
9	Guard plate	AISI 304
10	Mechanical seal	



### How to Read the Curve Charts

The thin curves indicate the duty range where long-time operating is not allowed

The bold curves indicate the duty range where long-time operating is permitted for best efficiency

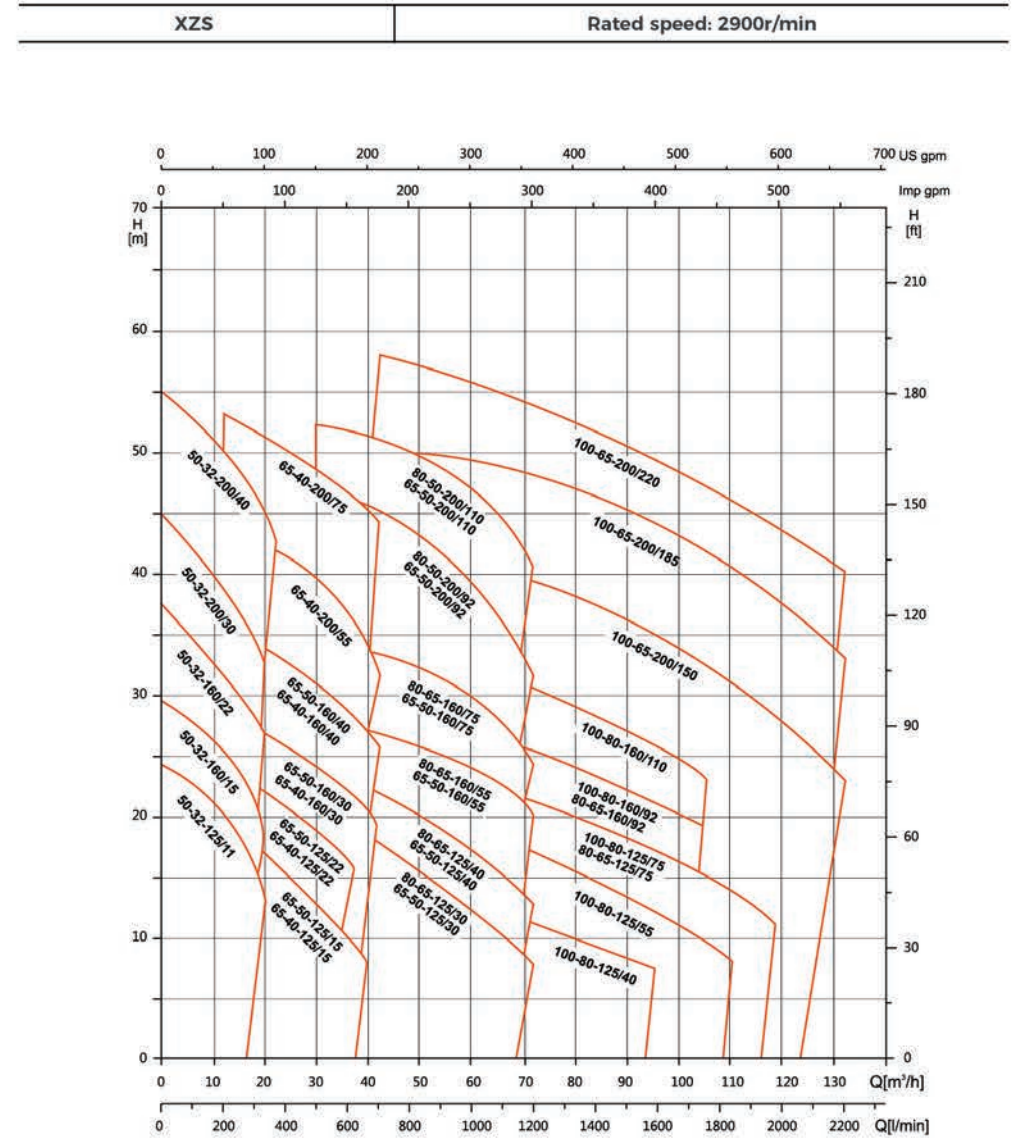


### Technical Data

Model		Power		Q(m³/h)																				
CB5662 Standard	EN733 Standard	kW	HP	0	6	9	12	18	20	22	24	27	30	36	42	48	60	72	90	108	114	120	126	132
				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	20.5	19.5	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	32.5	32	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XZS65-50-125/15	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	-	-	-	-	-	-	-	-	-	-
XZS65-50-160/30	XZS65-40-160/30	3	4	31	-	-	29	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	-	-	-	-	-	-	-	-	-
XZS65-40-200/75		7.5	10	57	-	-	53	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	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	-	-	-	-	-	-
XZS80-65-160/75	XZS65-50-160/75	7.5	10	39	-	-	-	-	-	-	36	35	34.5	34	33.5	32.5	29	24	-	-	-	-	-	-
XZS80-50-200/92	XZS65-50-200/92	11	15	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	-	-	-	-	-	-
XZS100-80-125/40		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	-	-	-	-	-
XZS100-80-125/75	XZS80-65-125/75	7.5	10	29	-	-	-	-	-	-	-	-	27.5	26.5	25.5	23.5	21.5	17.5	13	12	-	-	-	-
XZS100-80-160/92	XZS80-65-160/92	11	15	33	-	-	-	-	-	-	-	-	-	31	30	28	26	23	-	-	-	-	-	-
XZS100-80-160/110	XZS80-65-160/110	11	15	38.5	-	-	-	-	-	-	-	-	-	36	35	33	31	28	-	-	-	-	-	-
XZS100-65-200/150		15	20	47	-	-	-	-	-	-	-	-	-	44	43	41	39	36	32	30	28	26	23	-
XZS100-65-200/185		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	-

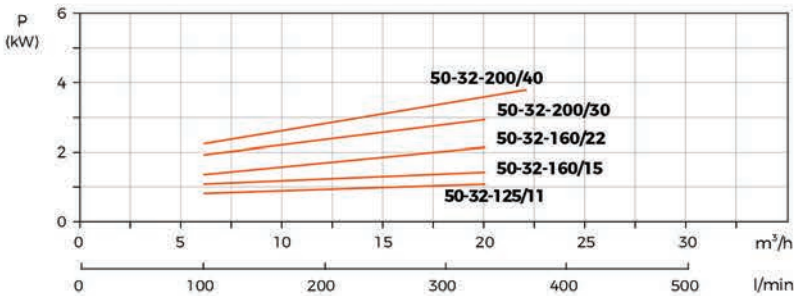
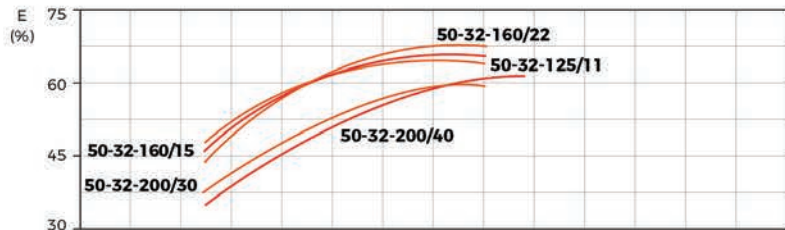
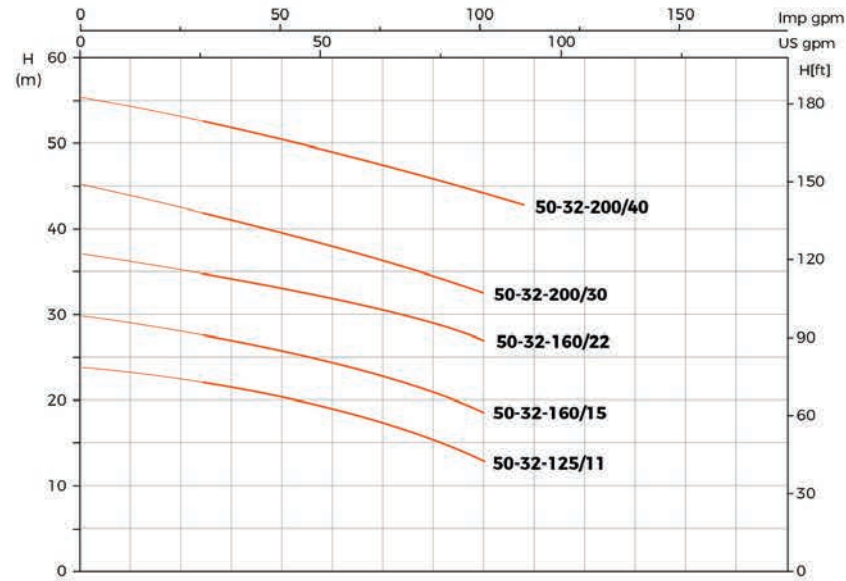
\* =IE3 motor optional on request.

### Characteristic Curves



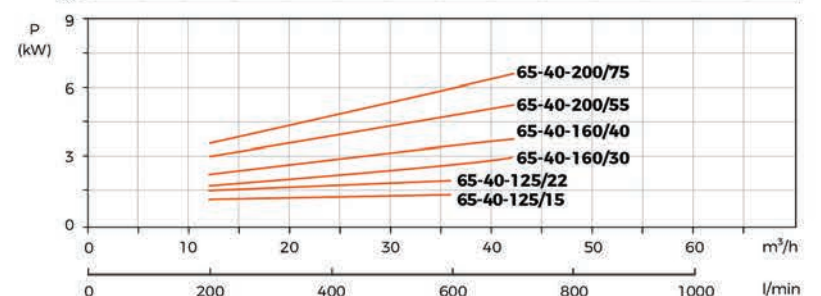
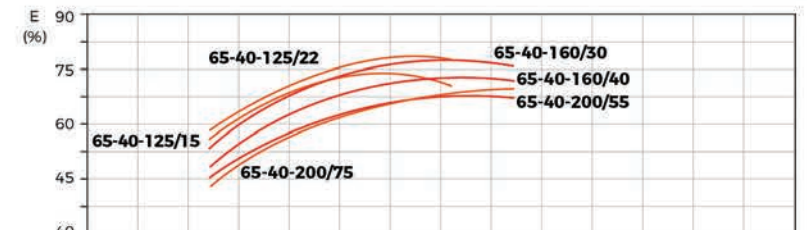
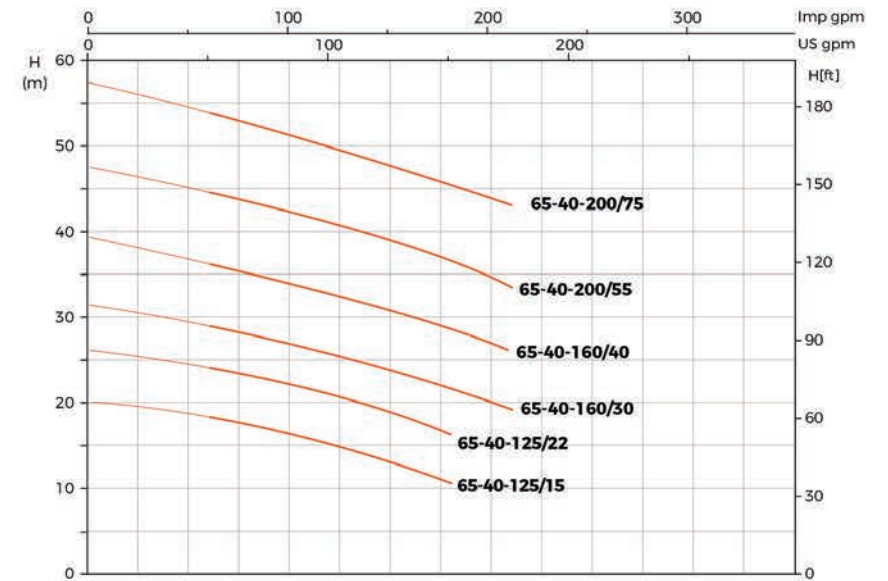
**Hydraulic Performance Curves**

XZS50-32	Rated speed: 2900r/min
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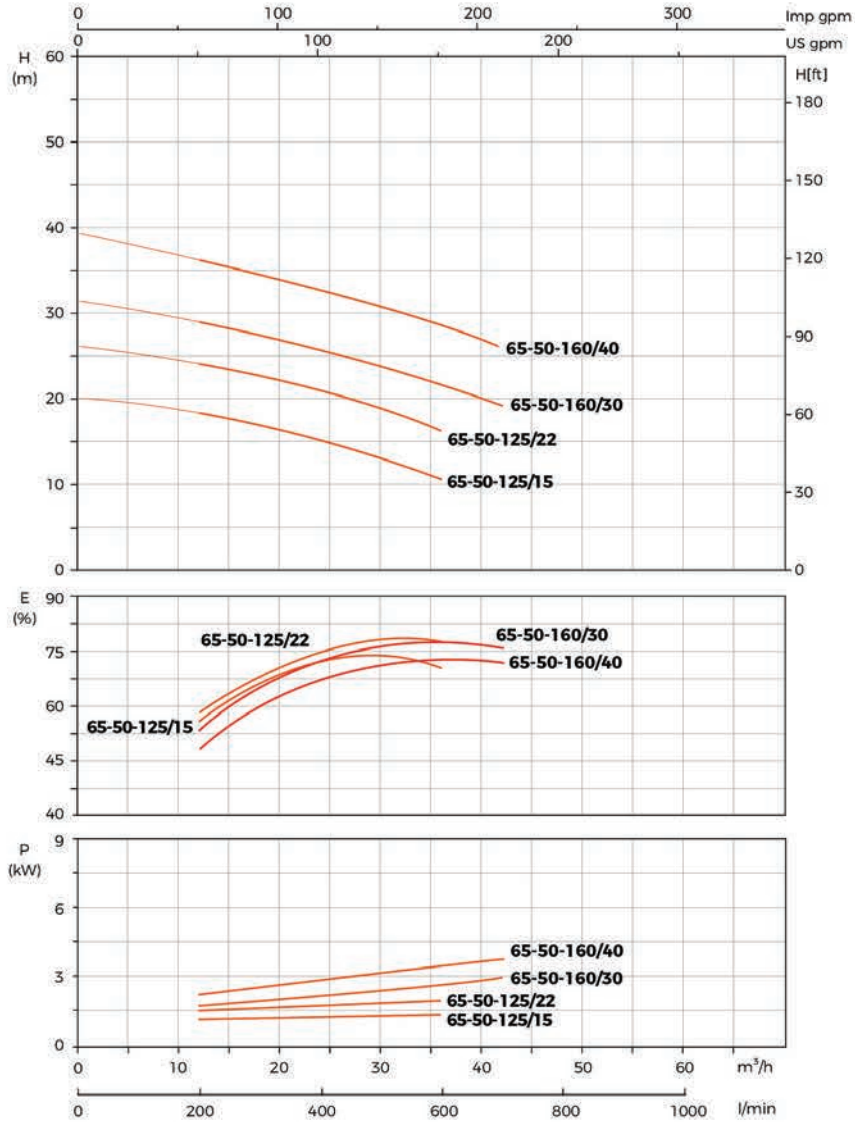
**Hydraulic Performance Curves**

XZS65-40	Rated speed: 2900r/min
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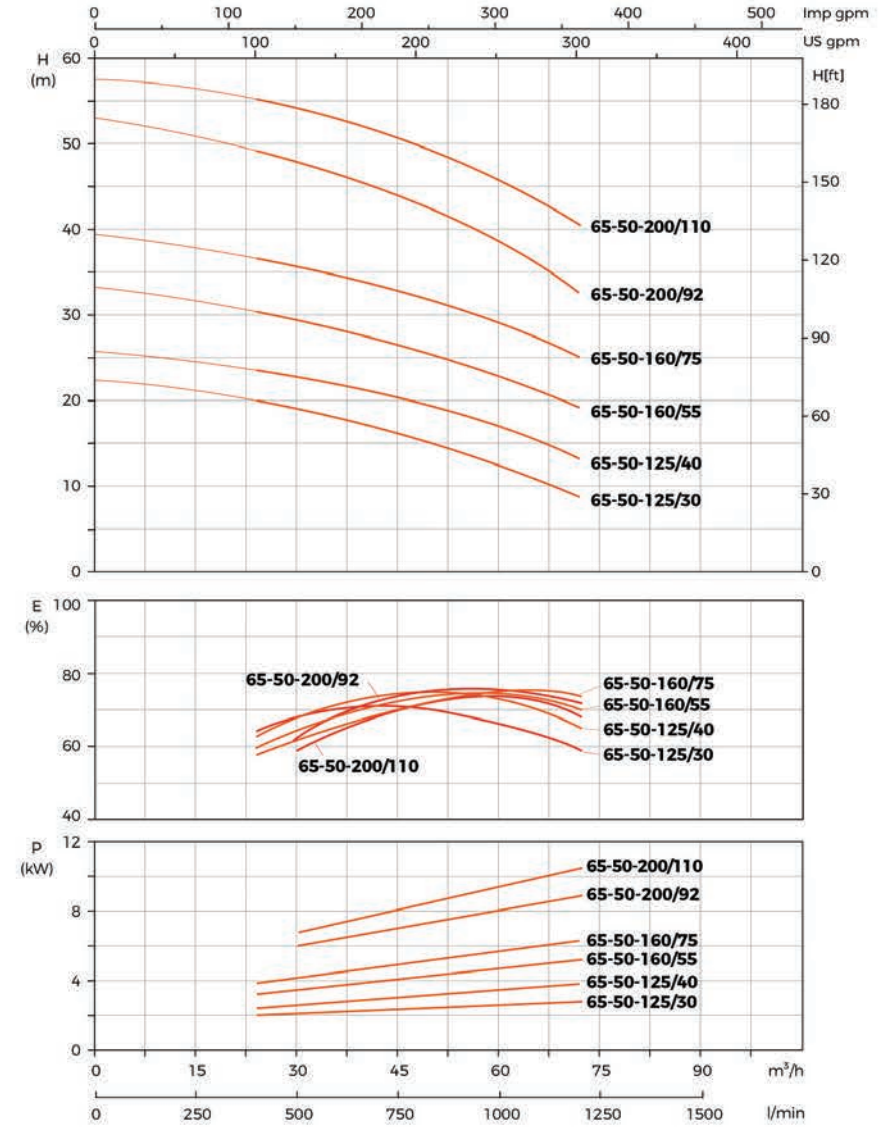
**Hydraulic Performance Curves**

XZS65-50	Rated speed: 2900r/min
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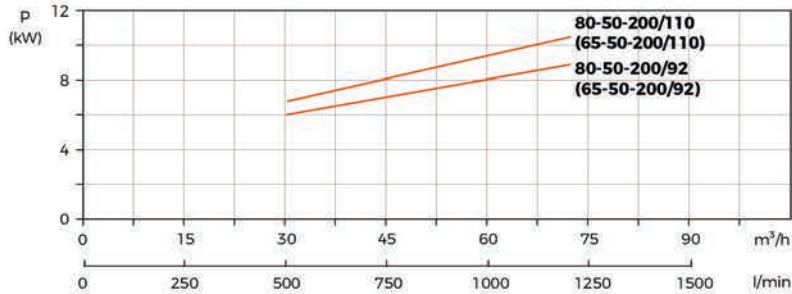
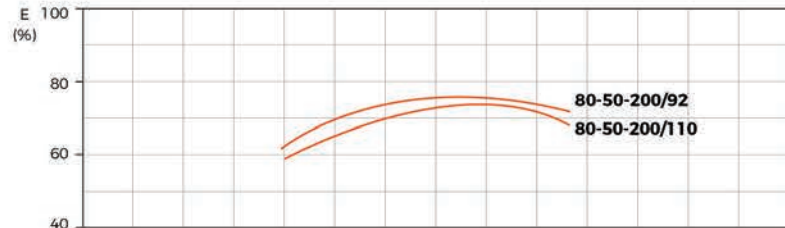
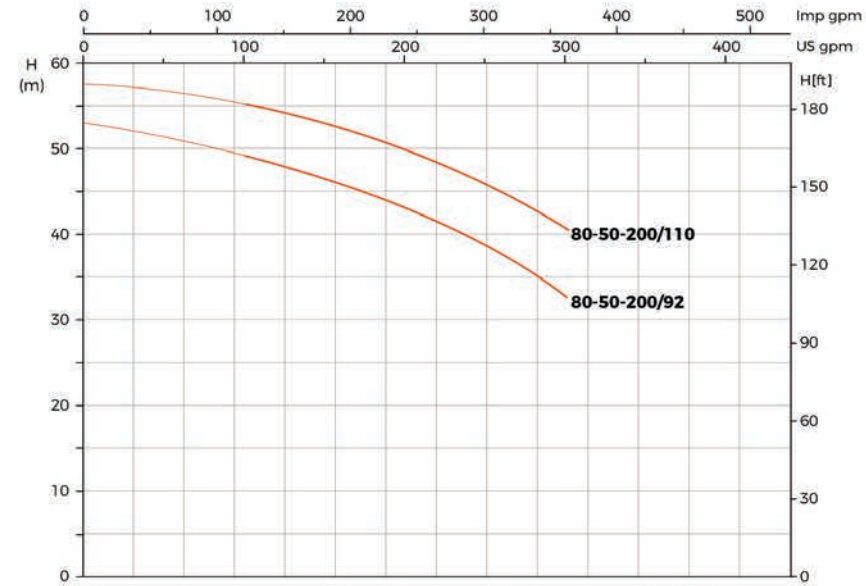
**Hydraulic Performance Curves**

XZS65-50	Rated speed: 2900r/min
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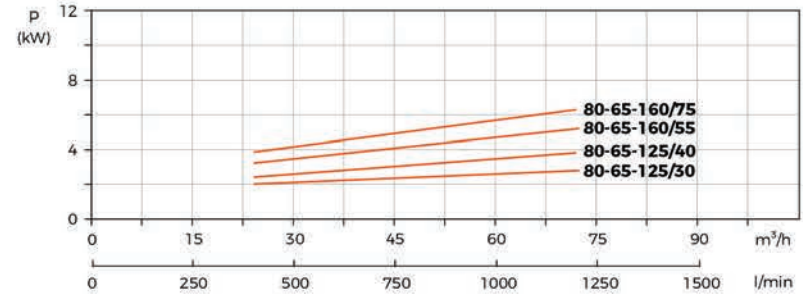
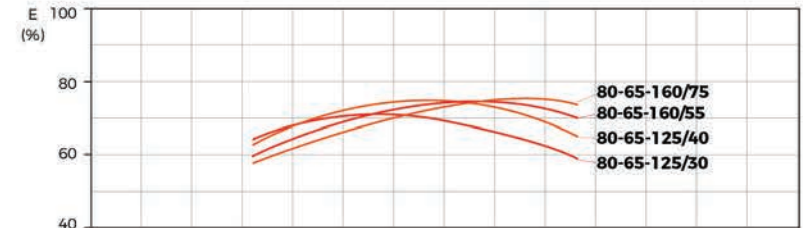
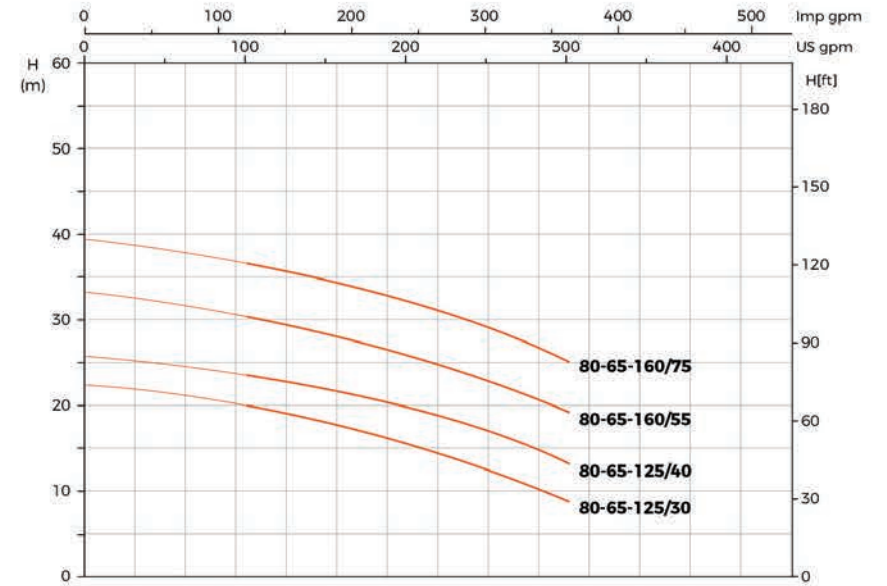
**Hydraulic Performance Curves**

**XZS80-50** | **Rated speed: 2900r/min**



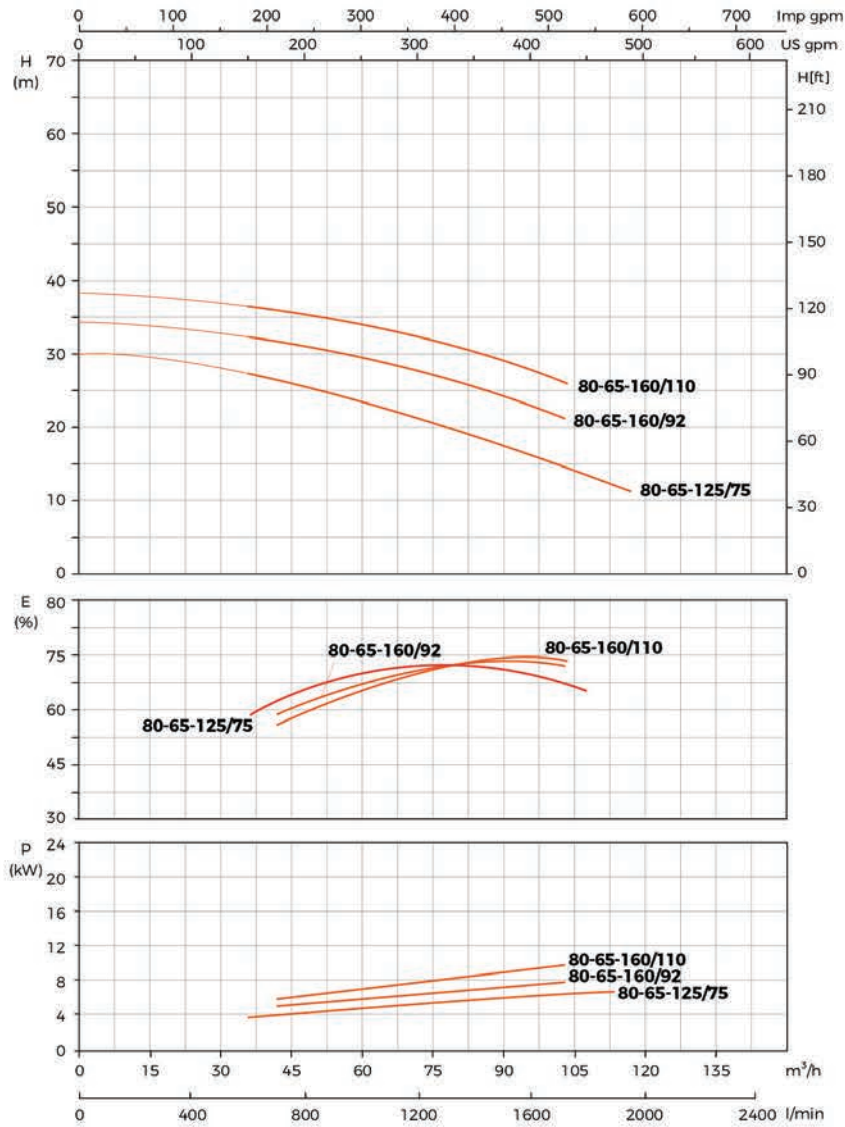
**Hydraulic Performance Curves**

**XZS80-65** | **Rated speed: 2900r/min**



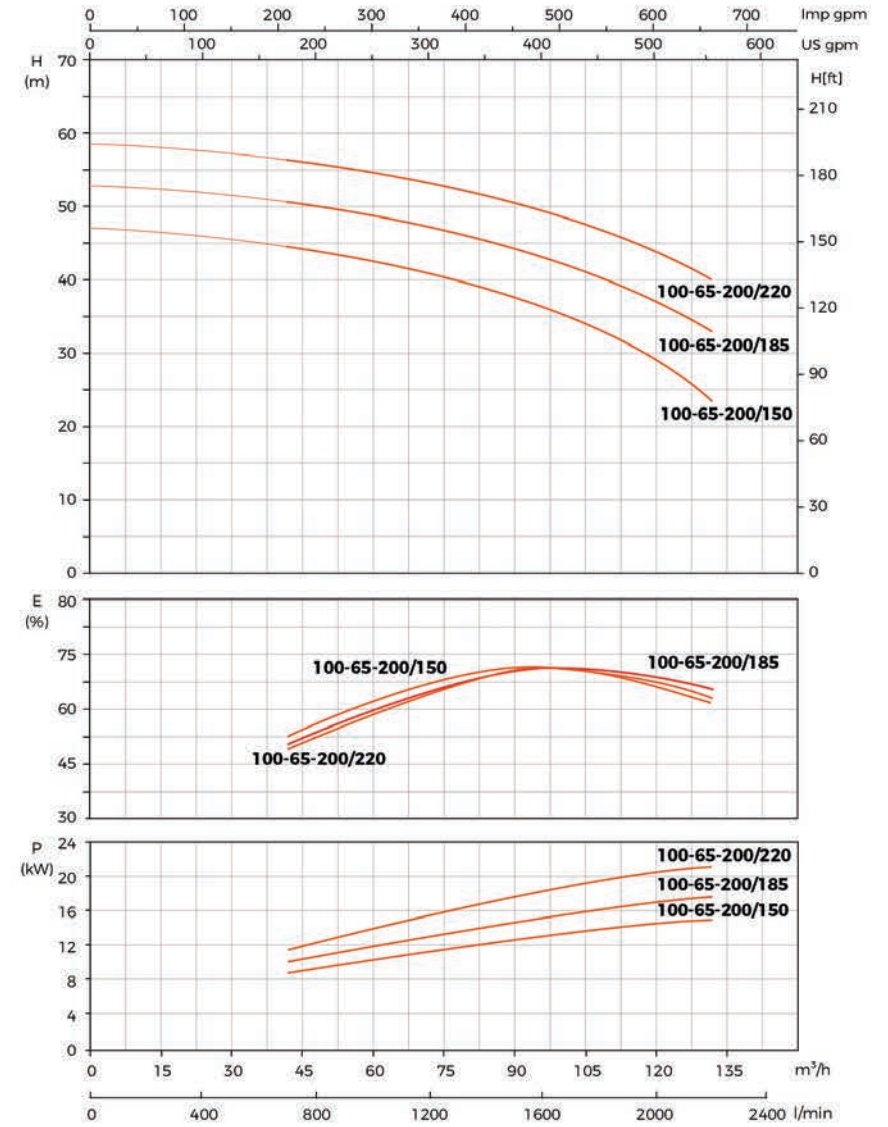
**Hydraulic Performance Curves**

<b>XZS80-65</b>	<b>Rated speed: 2900r/min</b>
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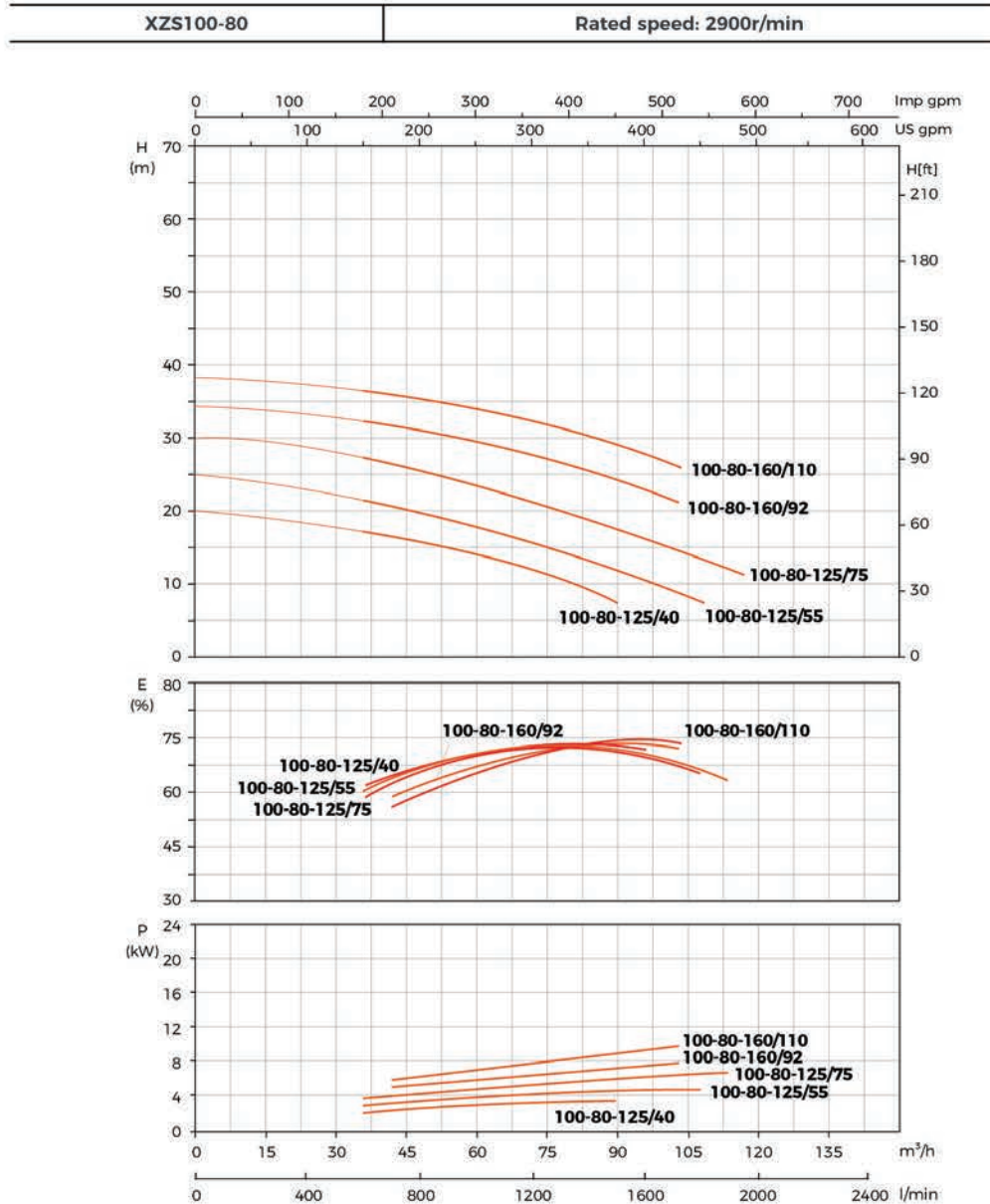


**Hydraulic Performance Curves**

<b>XZS100-65</b>	<b>Rated speed: 2900r/min</b>
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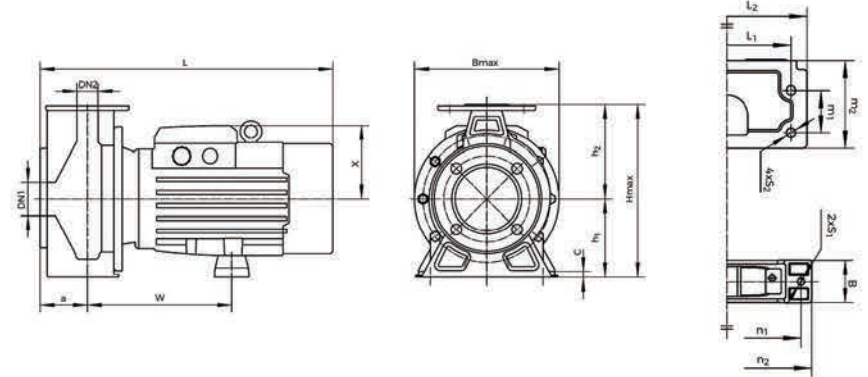


**Hydraulic Performance Curves**



**Installation Sketch**

For model ≤ 7.5kW



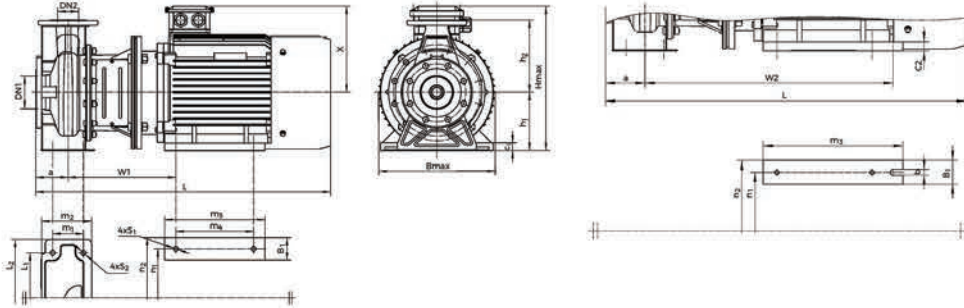
Model	DN1	DN2	a	W	L	L1	L2	m1	m2	n1	n2	h1	h2	2-S1	4-S2	B	C	X	Bmax	Hmax
XZS50-32-125/11	50	32	80	205	475	140	190	70	122	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	250
XZS50-32-160/15	50	32	80	207	477	190	240	70	122	205	240	132	160	2-Ø12	4-Ø15	65	12	127	244	292
XZS50-32-160/22	50	32	80	207	477	190	240	70	122	205	240	132	160	2-Ø12	4-Ø15	65	12	127	244	292
XZS50-32-200/30	50	32	80	244	492	190	240	70	124	225	260	160	180	2-Ø12	4-Ø15	75	15	124	295	340
XZS50-32-200/40	50	32	80	244	492	190	240	70	124	225	260	160	180	2-Ø12	4-Ø15	75	15	124	295	340
XZS65-50-125/15	65	50	80	205	475	160	210	70	121	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	252
XZS65-50-125/22	65	50	80	205	475	160	210	70	121	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	252
XZS65-50-160/30	65	50	80	244	492	190	240	70	123	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292
XZS65-50-160/40	65	50	80	244	492	190	240	70	123	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292
XZS65-40-200/55	65	40	40	246	563	212	265	70	146	245	280	160	180	2-Ø12	4-Ø15	70	15	142	295	340
XZS65-40-200/75	65	40	40	246	563	212	265	70	146	245	280	160	180	2-Ø12	4-Ø15	70	15	142	295	340
XZS80-65-125/30	80	65	65	254	522	190	240	70	158	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292
XZS80-65-125/40	80	65	65	254	522	190	240	70	158	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292
XZS80-65-160/55	80	65	65	256	573	212	265	70	150	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340
XZS80-65-160/75	80	65	65	256	573	212	265	70	150	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340
XZS100-80-125/40	100	80	80	256	524	212	280	95	155	225	260	160	180	2-Ø12	4-Ø15	75	15	124	280	340
XZS100-80-125/55	100	80	80	258	575	212	280	95	155	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340
XZS100-80-125/75	100	80	80	258	575	212	280	95	155	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340
XZS65-40-125/15	65	40	80	205	475	160	210	70	121	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	252
XZS65-40-125/22	65	40	80	205	475	160	210	70	121	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	252
XZS65-40-160/30	65	40	80	244	492	190	240	70	123	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292
XZS65-40-160/40	65	40	80	244	492	190	240	70	123	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292
XZS65-50-125/30	65	50	100	254	522	190	240	70	158	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292
XZS65-50-125/40	65	50	100	254	522	190	240	70	158	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292
XZS65-50-160/55	65	50	100	256	573	212	265	70	150	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340
XZS65-50-160/75	65	50	100	256	573	212	265	70	150	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340
XZS80-65-125/75	80	65	100	258	575	212	280	95	155	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340

# XZS

## Stainless Steel Standard Centrifugal Pump

### Installation Sketch

For model  $\geq 9.2\text{kW}$



Model	DN1	DN2	a	W1	W2	L	L1	L2	m1	m2	m3	m4	n1	n2	h1	h2	4-S1	4-S2	B1	b	C1	C2	X	Bmax	Hmax
XZS80-50-200/92	80	50	100	314	-	816	212	265	70	146	210	260	254	320	160	200	4- $\Phi$ 14.5	4- $\Phi$ 14	65	-	20	-	260	350	420
XZS80-50-200/110	80	50	100	314	-	816	212	265	70	146	210	260	254	320	160	200	4- $\Phi$ 14.5	4- $\Phi$ 14	65	-	20	-	260	350	420
XZS100-80-160/92	100	80	100	321	-	823	212	280	95	155	260	210	254	320	160	200	4- $\Phi$ 14.5	4- $\Phi$ 14	65	-	20	-	260	350	420
XZS100-80-160/110	100	80	100	321	-	823	212	280	95	155	260	210	254	320	160	200	4- $\Phi$ 14.5	4- $\Phi$ 14	65	-	20	-	260	350	420
XZS100-65-200/150	100	65	100	-	581	823	250	320	95	155	310	-	254	314	180	225	-	4- $\Phi$ 14	60	14.5	-	20	260	350	440
XZS100-65-200/185	100	65	100	-	625	868	250	320	95	155	354	-	254	314	180	225	-	4- $\Phi$ 14	60	14.5	-	20	260	350	440
XZS100-65-200/220	100	65	100	334	-	913	250	320	95	155	311	241	279	355	180	225	4- $\Phi$ 14.5	4- $\Phi$ 14	70	-	22	-	280	355	460
XZS65-50-200/92	65	50	100	314	-	816	212	265	70	146	210	260	254	320	160	200	4- $\Phi$ 14.5	4- $\Phi$ 15	65	-	-	-	260	350	420
XZS65-50-200/110	65	50	100	314	-	816	212	265	70	146	210	260	254	320	160	200	4- $\Phi$ 14.5	4- $\Phi$ 15	65	-	-	-	260	350	420
XZS80-65-160/92	80	65	100	321	-	823	212	280	95	155	260	210	254	320	160	200	4- $\Phi$ 14.5	4- $\Phi$ 15	65	-	-	-	260	350	420
XZS80-65-160/110	80	65	100	321	-	823	212	280	95	155	260	210	254	320	160	200	4- $\Phi$ 14.5	4- $\Phi$ 15	65	-	-	-	260	350	420

### Flange Dimensions

**PN16 Flange**

DN	D	M	G	Holes N $\times$ $\Phi$	Max. Thickness
$\Phi$ 32	140	100	76	4 18	14
$\Phi$ 40	150	110	84	4 18	14.5
$\Phi$ 50	165	125	99	4 18	15
$\Phi$ 65	185	145	118	4 18	16
$\Phi$ 80	200	160	132	4 18	18

**PN16 Flange**

DN	D	M	G	Holes N $\times$ $\Phi$	Max. Thickness
$\Phi$ 100	220	180	152	8 18	18

# BWS

## Pressure Booster System



### General

- 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 with features of complete functions, reliable quality, stable operating and easy maintenance.

### General

- BWS, the abbreviation of Building Water System or Best Water System, 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, a 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

