



1.1kw~7.5kw



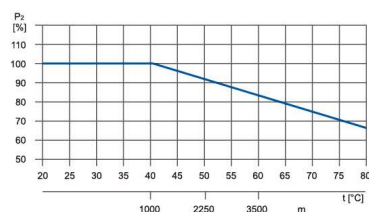
9.2kw~22kw

ESST

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 decrease to 88%. When the ambient temperature is 70°C, P2 will be decreased to 78%.



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 alkali 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°C - +80°C
- Flow range: 0.7 - 132 m³/h
- Head range: 9 - 58 m
- Ambient temperature range: -15°C - +40°C
- Max. operation: 10 bar
- Altitude: up to 1000 m
- Liquid PH valve: 3 - 9
- Max.ambient temperature: +40°C

Motor

- IE2 Motor (IE3 motor availableon request for power≥9.2kw)
- Totally enclosed & fan-cooled
- Protection class: IP55
- Insulation class: F

Identification Codes

ESST 65- 50- 160/40

- Rated Power (x100 W)
- Impeller Nominal Diameter (mm)
- Outlet Diameter (mm)
- Inlet Diameter (mm)
- Stainless Steel Standard Centrifugal Pump

Accessories on Request



AISI304 Threaded flange



Flange gasket

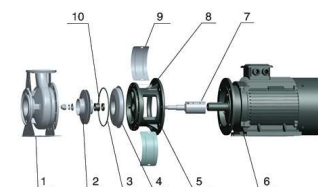
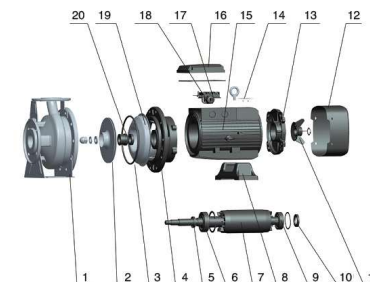
Materials Table

1.1kw~7.5kw

No.	Part	Material	No.	Part	Material
1	Pump body	06Cr19Ni10	11	Fan	PP
2	Impeller	06Cr19Ni10	12	Fan cover	08F
3	O-ring	NBR	13	Rear cover	ZL102
4	Support	HT200	14	Nameplate	06Cr19Ni10
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	06Cr19Ni10
10	Oil seal		20	Mechanical seal	

9.2kw~22kw

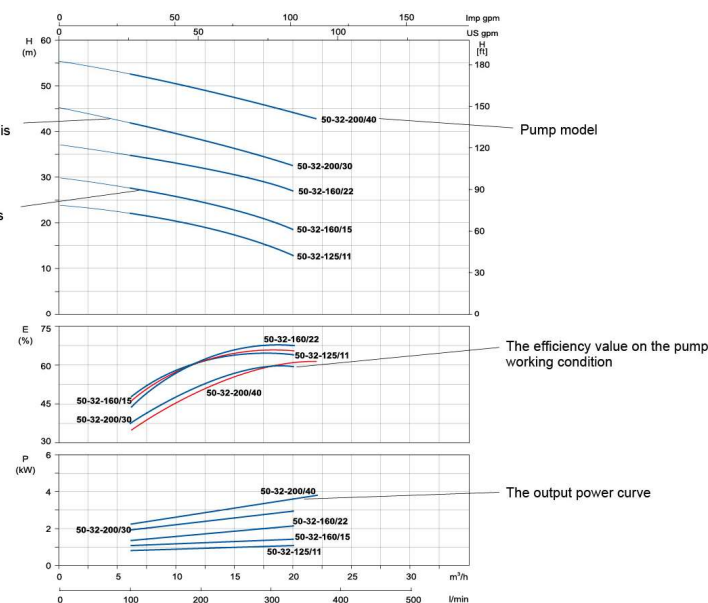
No.	Part	Material
1	Pump body	06Cr19Ni10
2	Impeller	06Cr19Ni10
3	O-ring	NBR
4	Support cover	06Cr19Ni10
5	Support	HT200
6	Motor	
7	Rotor	06Cr19Ni10/45
8	Nameplate	06Cr19Ni10
9	Guard plate	06Cr19Ni10
10	Mechanical seal	



How to Read The Curve Charts

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

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

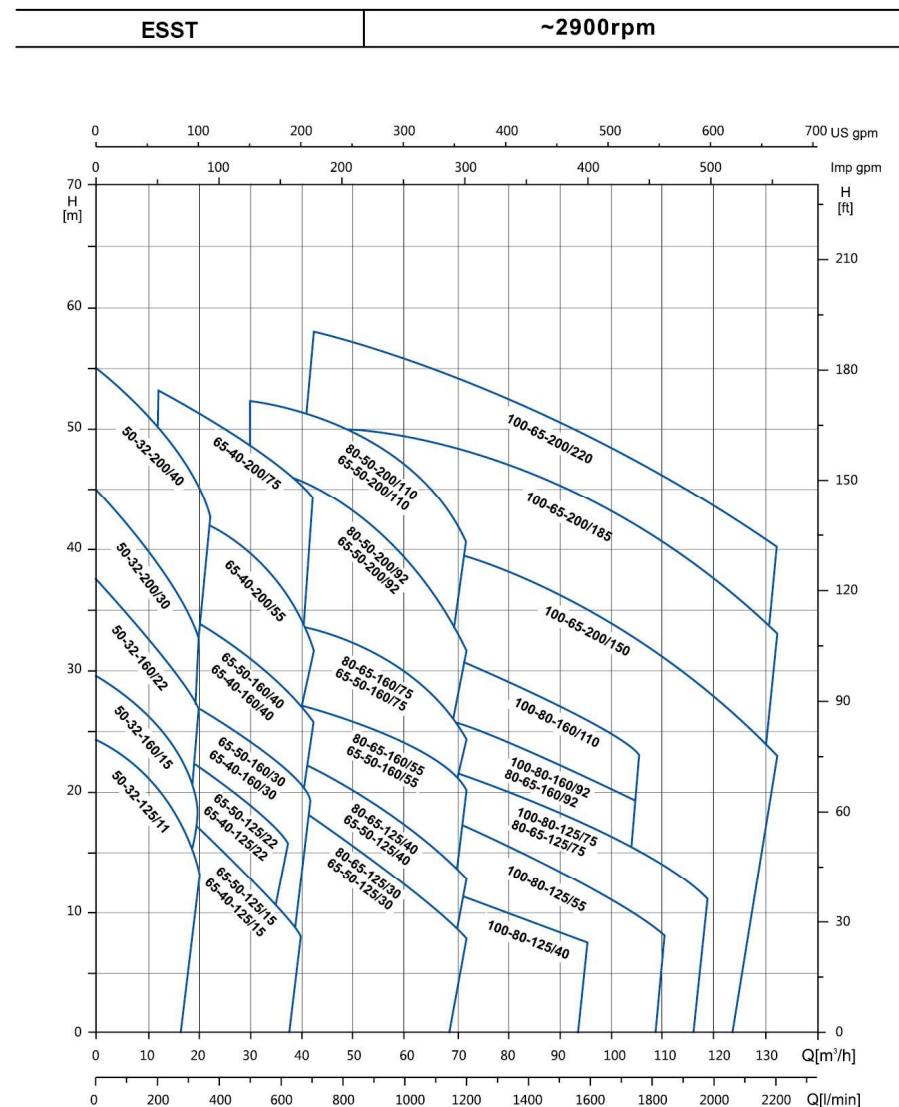


Technical Data

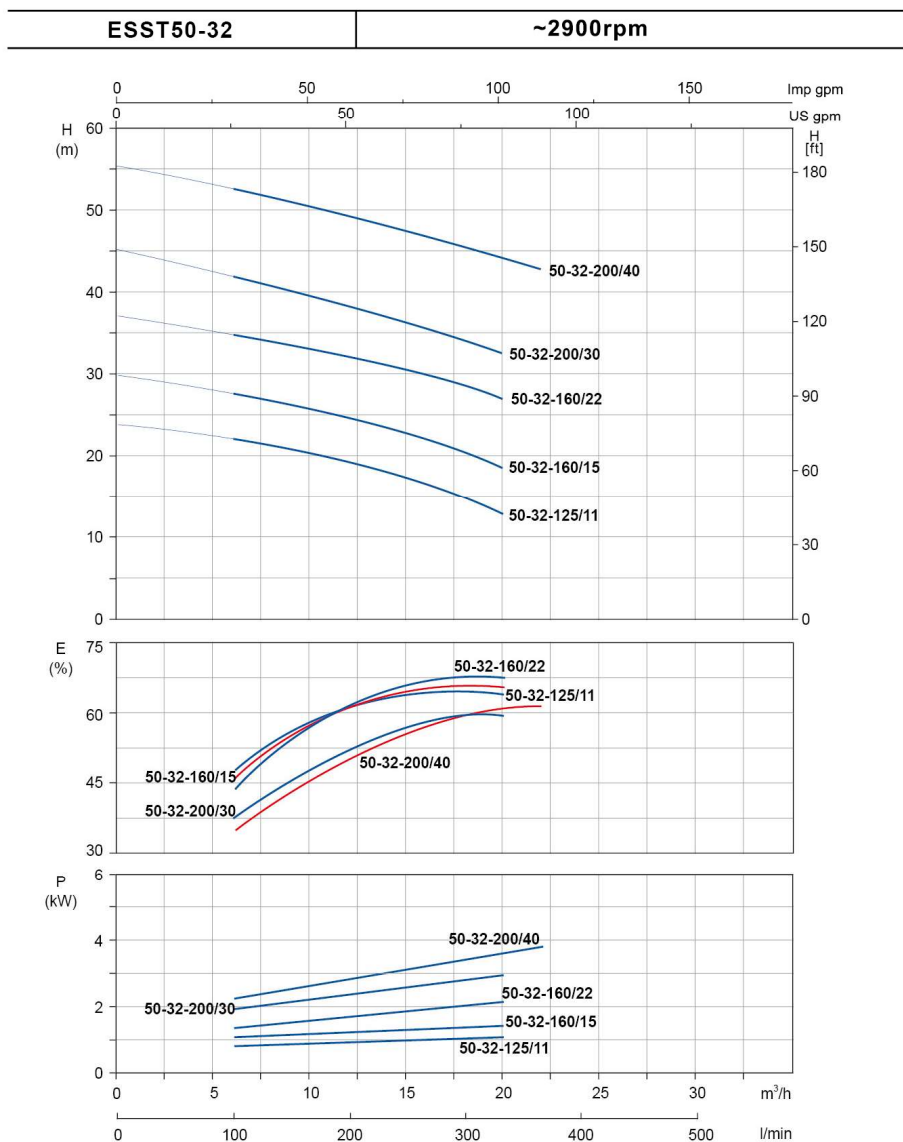
MODEL		Power		Q (m³/h) Q (l/min)	Q=DELIVERY																							
					0	6	9	12	18	20	22	24	27	30	36	42	48	60	72	90	108	114	120	126	132			
GB5662 Standard	EN733 Standard	kW	HP		0	100	150	200	300	333	360	400	450	500	600	700	800	1000	1200	1500	1800	1900	2000	2100	2200			
ESST50-32-125/11		1.1	1.5	H (m)	24	21.5	20.5	19.5	16	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ESST50-32-160/15		1.5	2		29.5	27	26	25	21	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ESST50-32-160/22		2.2	3		37	33.5	32.5	32	28.5	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ESST50-32-200/30		3	4		45	41	40	38	34	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ESST50-32-200/40		4	5.5		55	51	50	49	46	45	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ESST65-50-125/15		ESST65-40-125/15			1.5	2	20	-	-	19	18	17	16.5	15	14	12.5	10	-	-	-	-	-	-	-	-	-		
ESST65-50-125/22		ESST65-40-125/22			2.2	3	26	-	-	23.5	22.5	22	21.5	21	20.5	19.5	16.5	-	-	-	-	-	-	-	-	-		
ESST65-50-160/30		ESST65-40-160/30			3	4	31	-	-	29	27.5	27	26.5	25.5	25	24	22	19	-	-	-	-	-	-	-	-		
ESST65-50-160/40		ESST65-40-160/40			4	5.5	39	-	-	35.5	34.5	34	33.5	32.5	32	31	29	26	-	-	-	-	-	-	-	-		
ESST65-40-200/55					5.5	7.5	47	-	-	43	42.5	42	41.5	41	40.5	39	37	33	-	-	-	-	-	-	-	-		
ESST65-40-200/75					7.5	10	57	-	-	53	52.5	52	51	50	49	48	46.5	44.5	-	-	-	-	-	-	-	-		
ESST80-65-125/30		ESST65-50-125/30			3	4	22.5	-	-	-	-	-	20	19.5	19	18.5	17.5	16	13	9	-	-	-	-	-	-		
ESST80-65-125/40		ESST65-50-125/40			4	5.5	25.5	-	-	-	-	-	23	22.5	22	21.5	20.5	20	17	13.5	-	-	-	-	-	-		
ESST80-65-160/55		ESST65-50-160/55			5.5	7.5	33	-	-	-	-	-	29.5	29	28.5	28	27	26	24	20	-	-	-	-	-	-		
ESST80-65-160/75		ESST65-50-160/75			7.5	10	39	-	-	-	-	-	36	35	34.5	34	33.5	32.5	29	24	-	-	-	-	-	-		
*ESST80-50-200/92		ESST65-50-200/92			9.2	12.5	53	-	-	-	-	-	-	-	48	47.5	46.5	44.5	39.5	34	-	-	-	-	-	-		
*ESST80-50-200/110		ESST65-50-200/110			11	15	57.5	-	-	-	-	-	-	-	53	51	50.5	50	47	41	-	-	-	-	-	-		
ESST100-80-125/40					4	5.5	20	-	-	-	-	-	-	-	-	17.5	16.5	15.5	14	12	7	-	-	-	-	-		
ESST100-80-125/55					5.5	7.5	23	-	-	-	-	-	-	-	-	21.5	20.5	20	18	16	12	7.5	-	-	-	-		
ESST100-80-125/75		ESST80-65-125/75			7.5	10	29	-	-	-	-	-	-	-	-	27.5	26.5	25.5	23.5	21.5	17.5	13	12	-	-	-		
*ESST100-80-160/92		ESST80-65-160/92		9.2	12.5	33	-	-	-	-	-	-	-	-	-	31	30	28	26	23	-	-	-	-	-			
*ESST100-80-160/110		ESST80-65-160/110		11	15	38.5	-	-	-	-	-	-	-	-	-	36	35	33	31	28	-	-	-	-	-			
*ESST100-65-200/150				15	20	47	-	-	-	-	-	-	-	-	-	44	43	41	39	36	32	30	28	26	23			
*ESST100-65-200/185				18.5	25	53	-	-	-	-	-	-	-	-	-	51	50	49	48	45	41	39	37	35	33			
*ESST100-65-200/220				22	30	58	-	-	-	-	-	-	-	-	-	57	56	55	54	51	47	45.5	44	42	40			

* =IE3 motor optional on request.

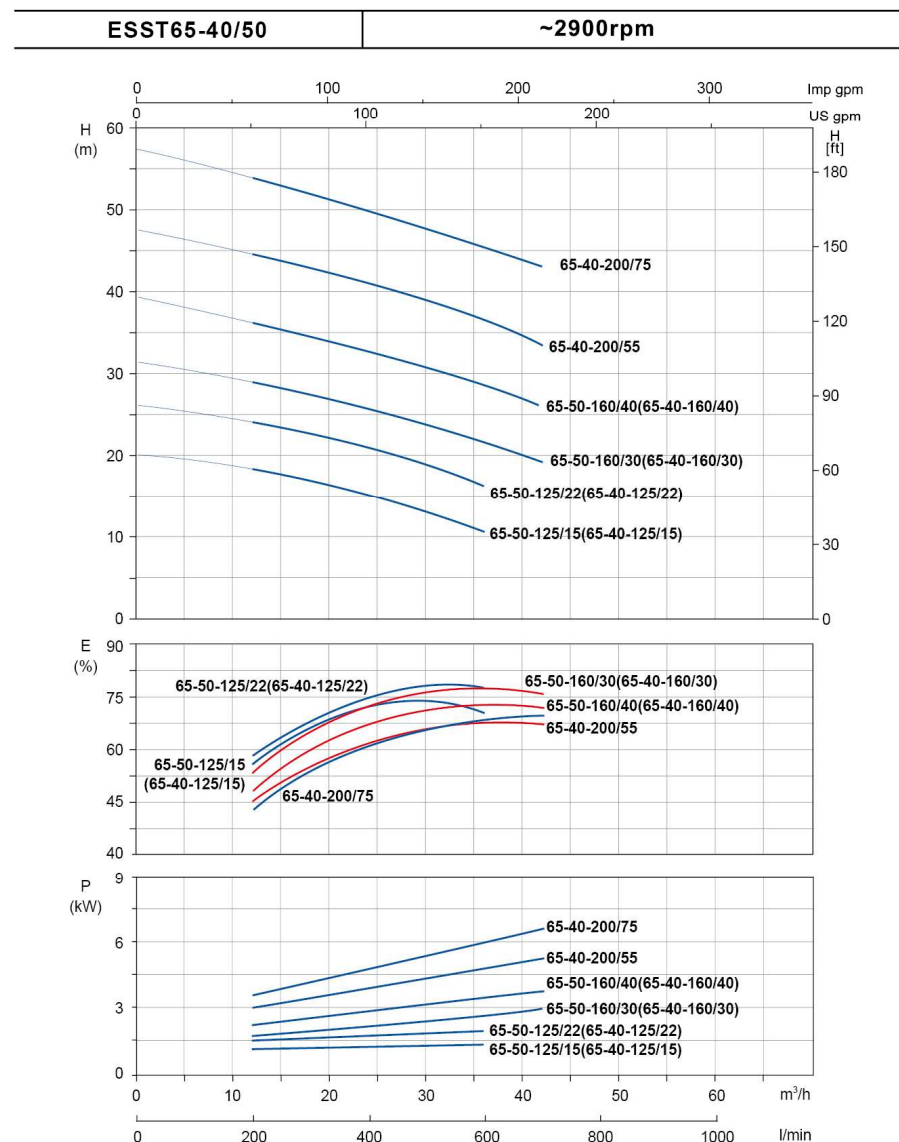
Characteristic Curves



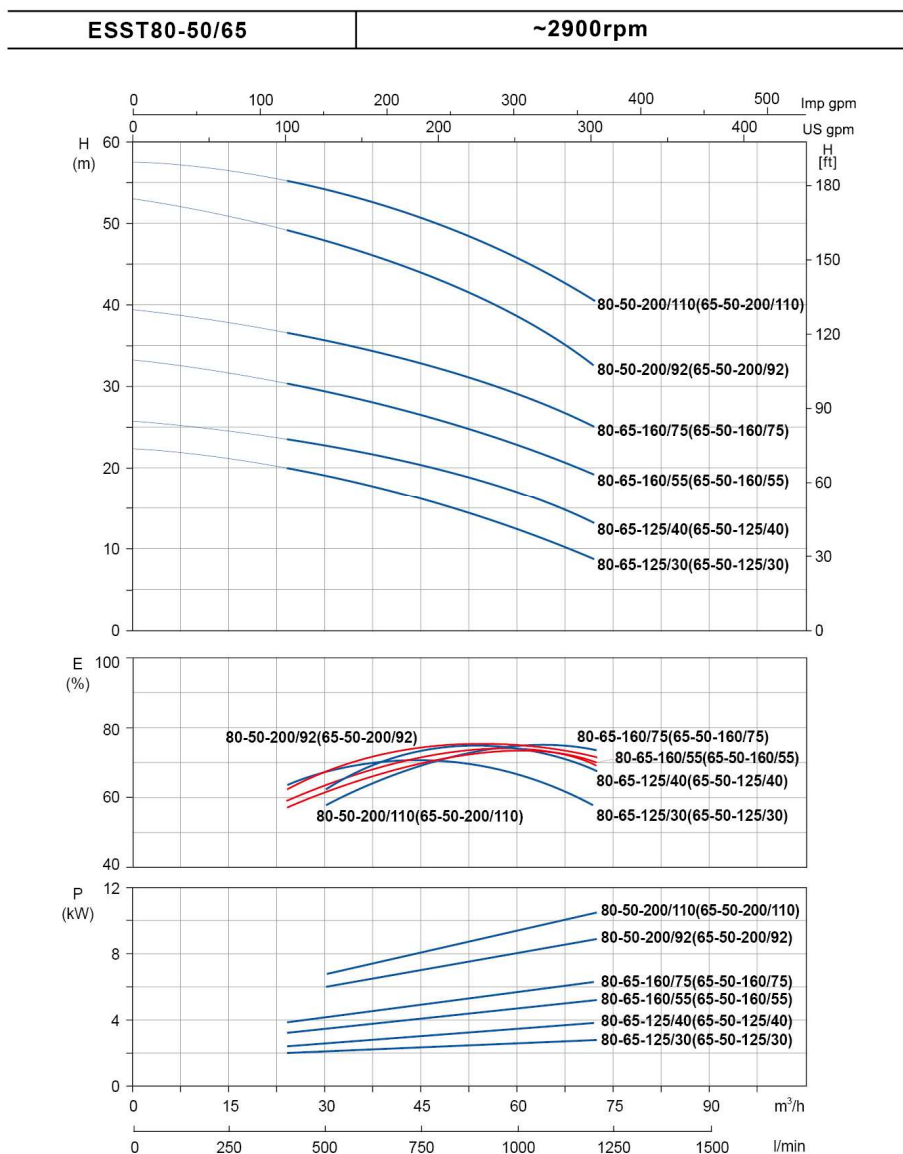
Hydraulic Performance Curves



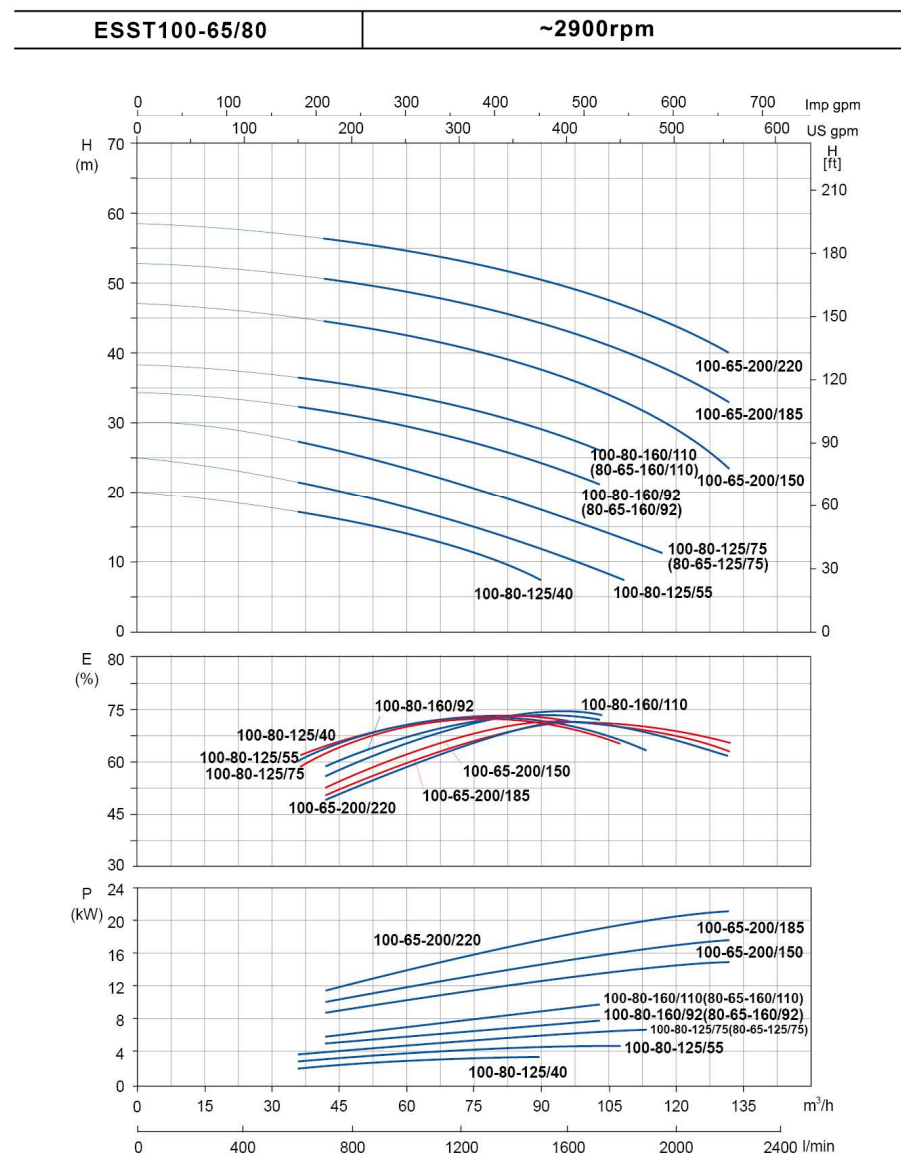
Hydraulic Performance Curves



Hydraulic Performance Curves

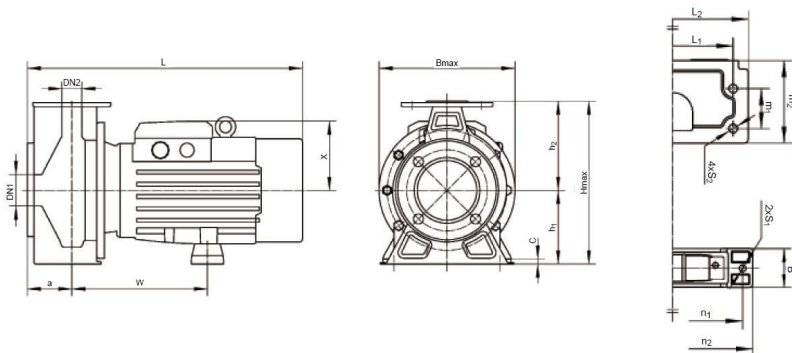


Hydraulic Performance Curves



Installation Sketch

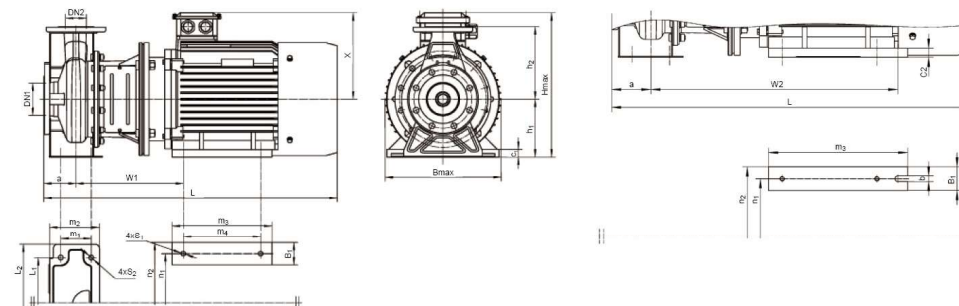
Up to 7.5 kW included



Model	DN1	DN2	a	w	L1	L2	m1	m2	n1	n2	h1	h2	2-S1	4-S2	B	C	X	Bmax	Hmax	L
ESST50-32-125/11	50	32	80	205	140	190	70	122	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	250	475
ESST50-32-160/15	50	32	80	207	190	240	70	122	205	240	132	160	2-Ø12	4-Ø15	65	12	127	244	292	477
ESST50-32-160/22	50	32	80	207	190	240	70	122	205	240	132	160	2-Ø12	4-Ø15	65	12	127	244	292	477
ESST50-32-200/30	50	32	80	244	190	240	70	124	225	260	160	180	2-Ø12	4-Ø15	75	15	124	295	340	492
ESST50-32-200/40	50	32	80	244	190	240	70	124	225	260	160	180	2-Ø12	4-Ø15	75	15	124	295	340	492
ESST65-50-125/15	65	50	80	205	160	210	70	121	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	252	475
ESST65-50-125/22	65	50	80	205	160	210	70	121	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	252	475
ESST65-50-160/30	65	50	80	244	190	240	70	123	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292	492
ESST65-50-160/40	65	50	80	244	190	240	70	123	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292	492
ESST65-40-200/55	65	40	40	246	212	265	70	146	245	280	160	180	2-Ø12	4-Ø15	70	15	142	295	340	563
ESST65-40-200/75	65	40	40	246	212	265	70	146	245	280	160	180	2-Ø12	4-Ø15	70	15	142	295	340	563
ESST80-65-125/30	80	65	65	254	190	240	70	158	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292	522
ESST80-65-125/40	80	65	65	254	190	240	70	158	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292	522
ESST80-65-160/55	80	65	65	256	212	265	70	150	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340	573
ESST80-65-160/75	80	65	65	256	212	265	70	150	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340	573
ESST100-80-125/40	100	80	80	256	212	280	95	155	225	260	160	180	2-Ø12	4-Ø15	75	15	124	280	340	524
ESST100-80-125/55	100	80	80	258	212	280	95	155	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340	575
ESST100-80-125/75	100	80	80	258	212	280	95	155	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340	575
ESST65-40-125/15	65	40	80	205	160	210	70	121	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	252	475
ESST65-40-125/22	65	40	80	205	160	210	70	121	205	240	112	140	2-Ø12	4-Ø15	65	12	127	240	252	475
ESST65-40-160/30	65	40	80	244	190	240	70	123	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292	492
ESST65-40-160/40	65	40	80	244	190	240	70	123	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292	492
ESST65-50-125/30	65	50	100	254	190	240	70	158	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292	522
ESST65-50-125/40	65	50	100	254	190	240	70	158	225	260	132	160	2-Ø12	4-Ø15	75	15	124	260	292	522
ESST65-50-160/55	65	50	100	256	212	265	70	150	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340	573
ESST65-50-160/75	65	50	100	256	212	265	70	150	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340	573
ESST80-65-125/75	80	65	100	258	212	280	95	155	245	280	160	180	2-Ø12	4-Ø15	70	15	142	280	340	575

Installation Sketch

From 7.5 kW



Model	DN1	DN2	a	w1	w2	L1	L2	m1	m2	m3	m4	n1	n2	h1	h2	4-S1	4-S2	B1	b	c1	c2	X	Bmax	Hmax	L
ESST80-50-200/92	80	50	100	314	-	212	265	70	146	210	260	254	320	160	200	4-Φ14.5	4-Φ14	65	-	20	-	260	350	420	816
ESST80-50-200/110	80	50	100	314	-	212	265	70	146	210	260	254	320	160	200	4-Φ14.5	4-Φ14	65	-	20	-	260	350	420	816
ESST100-80-160/92	100	80	100	321	-	212	280	95	155	260	210	254	320	160	200	4-Φ14.5	4-Φ14	65	-	20	-	260	350	420	823
ESST100-80-160/110	100	80	100	321	-	212	280	95	155	260	210	254	320	160	200	4-Φ14.5	4-Φ14	65	-	20	-	260	350	420	823
ESST100-65-200/150	100	65	100	-	581	250	320	95	155	310	-	254	314	180	225	-	4-Φ14	60	14.5	-	20	260	350	440	823
ESST100-65-200/185	100	65	100	-	625	250	320	95	155	354	-	254	314	180	225	-	4-Φ14	60	14.5	-	20	260	350	440	868
ESST100-65-200/220	100	65	100	334	-	250	320	95	155	311	241	279	355	180	225	4-Φ14.5	4-Φ14	70	-	22	-	280	355	460	913
ESST65-50-200/92	65	50	100	314	-	212	265	70	146	210	260	254	320	160	200	4-Φ14.5	4-Φ15	65	-	-	-	260	350	420	816
ESST65-50-200/110	65	50	100	314	-	212	265	70	146	210	260	254	320	160	200	4-Φ14.5	4-Φ15	65	-	-	-	260	350	420	816
ESST80-65-160/92	80	65	100	321	-	212	280	95	155	260	210	254	320	160	200	4-Φ14.5	4-Φ15	65	-	-	-	260	350	420	823
ESST80-65-160/110	80	65	100	321	-	212	280	95	155	260	210	254	320	160	200	4-Φ14.5	4-Φ15	65	-	-	-	260	350	420	823

Flange Dimensions



PN16 FLANGES

DN	D	M	G	Holes N	Max. Thickness
Ø32	140	100	76	4	18
Ø40	150	110	84	4	18
Ø50	165	125	99	4	18
Ø65	185	145	118	4	18
Ø80	200	160	132	4	18



PN16 FLANGES

DN	D	M	G	Holes N	Max. Thickness
Ø100	220	180	152	8	18