

# ECA-series

## Stainless Steel Close-coupled Centrifugal Pump



EVERGUSH®

50Hz



### Applications

1. Civil, agriculture and industrial water supply systems.
2. Winery and food systems.
3. Heating equipments and air conditioning systems.
4. Temporary water supply for construction sites.
5. Chiller and Cooling tower circulation systems.
6. Cleaning system and water filter equipment.
7. Swimming pool circulation system.
8. Sprinkler system and agriculture irrigation.
9. Building water pressurization system.

### Motor Spec.

1. 2 pole induction motor.
2. Insulation class: F.
3. Protection class: IP55.
4. Voltages: 1 phase 220V(1.1~2.2KW Only)  
3 phase 220V~415V(50Hz)

### Working conditions

1. Ambient temperature: Max. 40°C.
2. Liquid temperature:  
Normal type: -15~70°C.  
How water type: -15~100°C.(Customized)
3. Working pressure: Max.10 bar.
4. Altitude above sea water: Max.1000M.
5. Pumping liquids which are clean, non-flammable, non-combustible or non-explosive liquids, not containing solid particles or fibers.

### Model Code

ECA50-32-160/2.2

Output(kw)  
Impeller dia.(mm)  
Discharge (mm)  
Suction (mm)  
Stainless Steel Centrifugal Pump

### Introduction

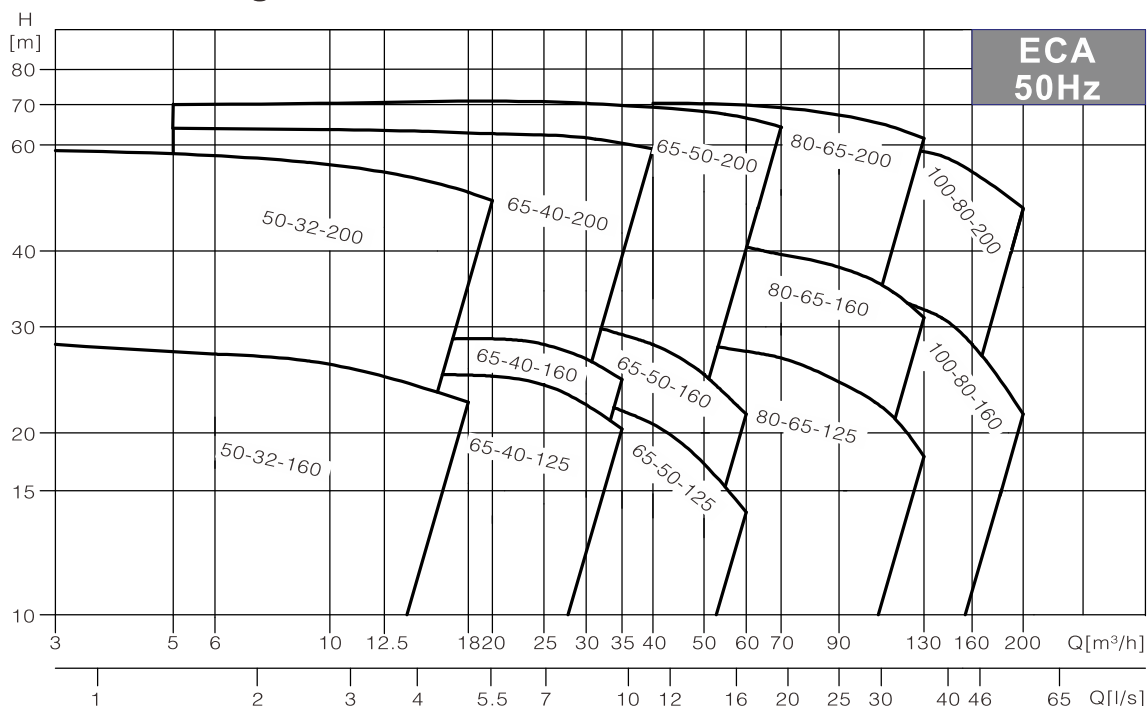
1. ECA is a stainless steel horizontal single-stage centrifugal pump, which delivers the liquid by rotating the impeller with the centrifugal force. It mainly consists of pump casing, impeller, diffuser, shaft and mechanical seal. All integrated into the pump body and connected to motor.
2. Wetted parts do not rust and have good wear resistance.
3. Back pull-out design which is easy to dismantle and maintain. It allows the pump bearing frame and impeller to be backed out of the volute without disturbing the pump piping connections.
4. It is close coupled design. The pump and motor share the same extended shaft. This will cancel out the fluctuations which will save energy and resource.

### Summary Of Specifications

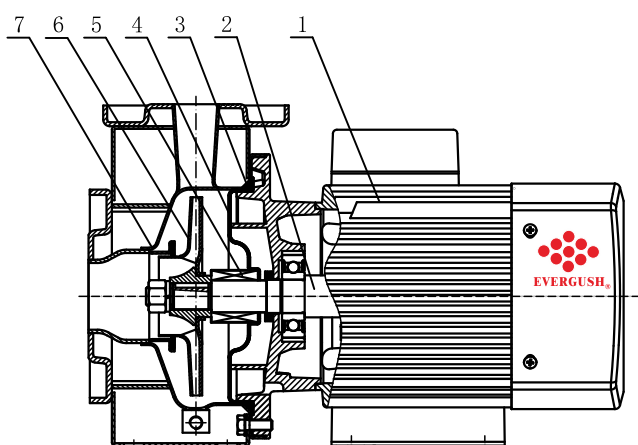
(50Hz/2P/2900R.P.M.)

Model	Output(P)		Capacity	Head
	KW	HP	Q(M³/Hr)	H(M)
ECA50-32-160/1.1	1.1	1.5	6.3	18
ECA50-32-160/1.5	1.5	2	12.5	20
ECA50-32-160/2.2	2.2	3		25
ECA50-32-200/3	3.0	4		32
ECA50-32-200/4	4.0	5.5		42
ECA50-32-200/5.5	5.5	7.5		54
ECA65-40-125/1.5	1.5	2	25	13
ECA65-40-125/2.2	2.2	3		18
ECA65-40-125/3	3.0	4		24
ECA65-40-160/4	4.0	5.5		28
ECA65-40-200/5.5	5.5	7.5		36
ECA65-40-200/7.5	7.5	10		46
ECA65-40-200/9.2	9.2	12.5		56
ECA65-40-200/11	11	15		62
ECA65-50-125/3	3.0	4	50	13
ECA65-50-125/4	4.0	5.5		18
ECA65-50-160/5.5	5.5	7.5		25
ECA65-50-200/7.5	7.5	10		32
ECA65-50-200/9.2	9.2	12.5		40
ECA65-50-200/11	11	15		48
ECA65-50-200/15	15	20		56
ECA65-50-200/18.5	18.5	25		68
ECA80-65-125/5.5	5.5	7.5	100	13
ECA80-65-125/7.5	7.5	10		18
ECA80-65-125/9.2	9.2	12.5		23
ECA80-65-160/11	11	15		27
ECA80-65-160/15	15	20		36
ECA80-65-200/18.5	18.5	25		45
ECA80-65-200/22	22	30		53
ECA80-65-200/30	30	40		66
ECA100-80-160/11	11	15	160	15
ECA100-80-160/15	15	20		22
ECA100-80-160/18.5	18.5	25		28
ECA100-80-200/22	22	30		33
ECA100-80-200/30	30	40		45
ECA100-80-200/37	37	50		54

### Performance Range



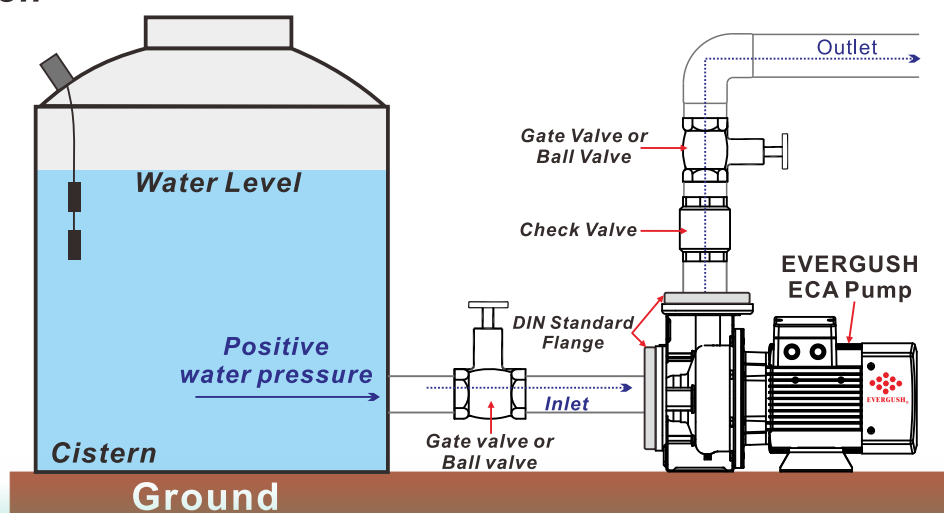
### Structure & Materials



No.	Part Name	Standard Material
1	Motor housing	Aluminum alloy
2	Extended shaft	Stainless Steel(AISI304)
3	O-ring	NBR
4	Lining	Stainless Steel(AISI304)
5	Mechanical Seal	SIC/Graphite/EPDM
6	Impeller	Stainless Steel(AISI304)
7	Pump casing	Stainless Steel(AISI304)

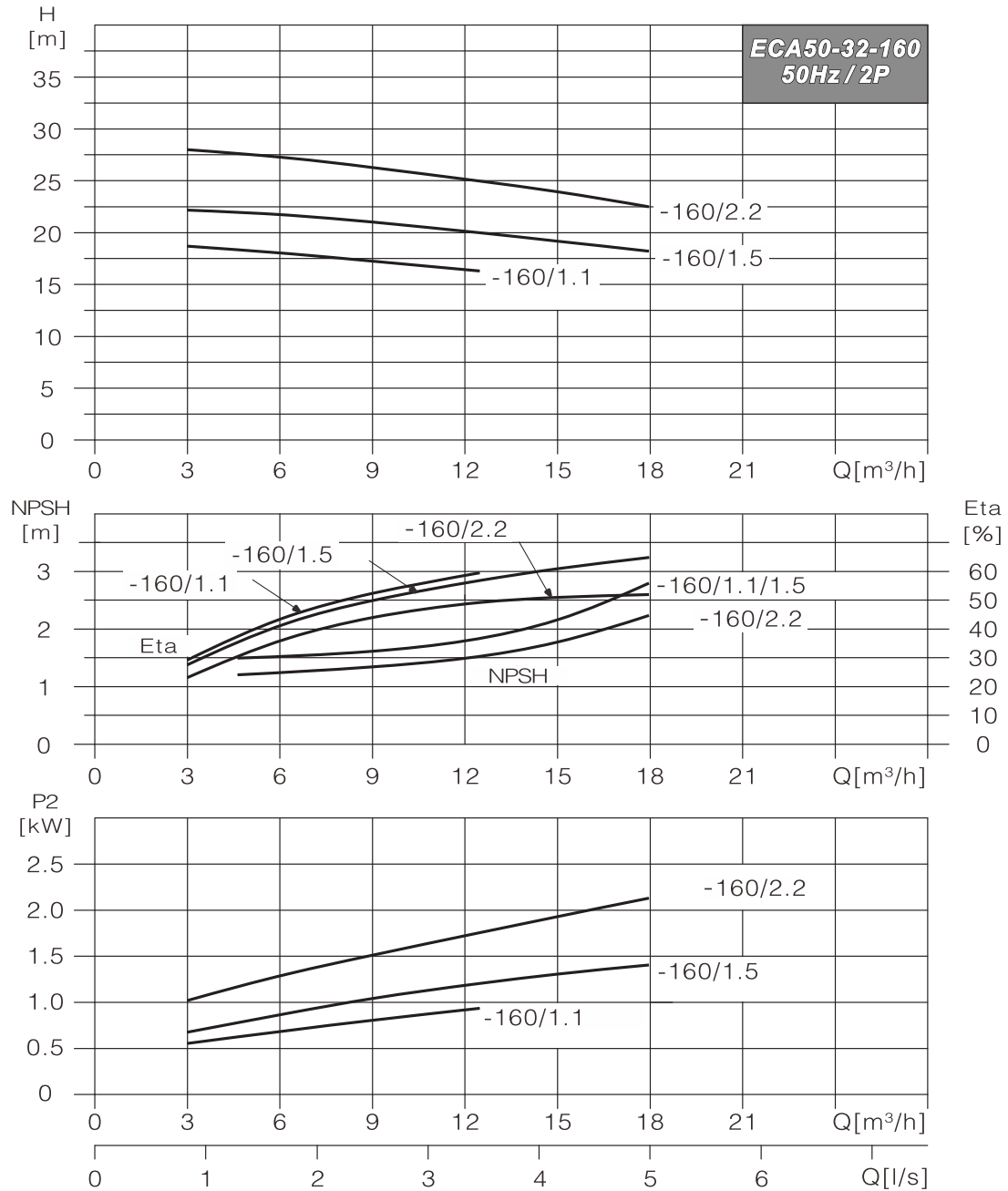
● Stainless Steel(AISI316) is available upon special request.

### Installation



### ECA50-32 Technical Data

#### Performance Curves

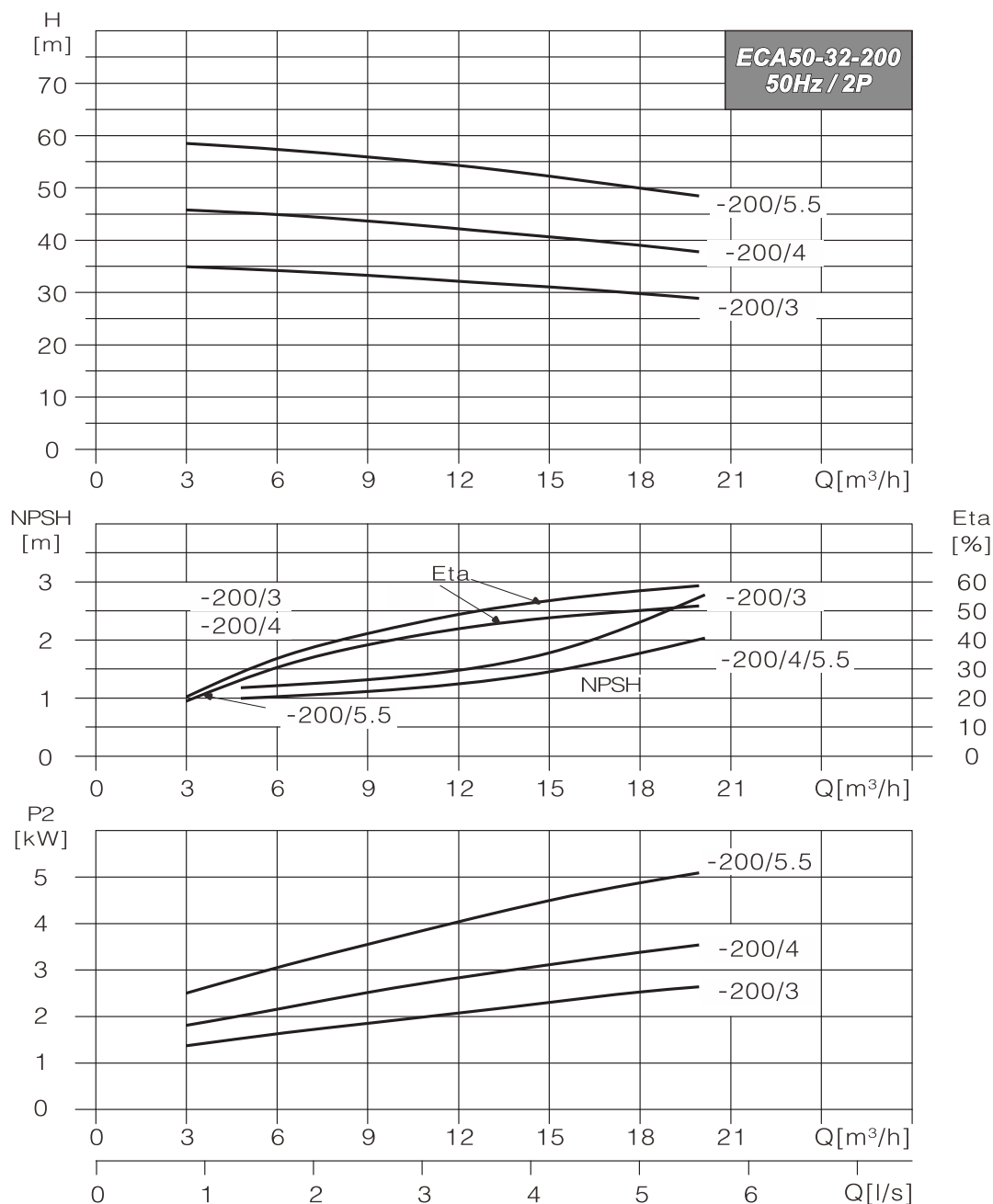


#### Performance Table

Pump model	Power		Q (m³/h)	3	6.3	9	12.5	15	18
	(kW)	(HP)							
ECA50-32-160/1.1	1.1	1.5	H (m)	18.7	18	17.2	16.2		
ECA50-32-160/1.5	1.5	2		22.5	22	21	20	19	17.8
ECA50-32-160/2.2	2.2	3		28	27	26.3	25	24	22.2

### ECA50-32 Technical Data

#### ● Performance Curves

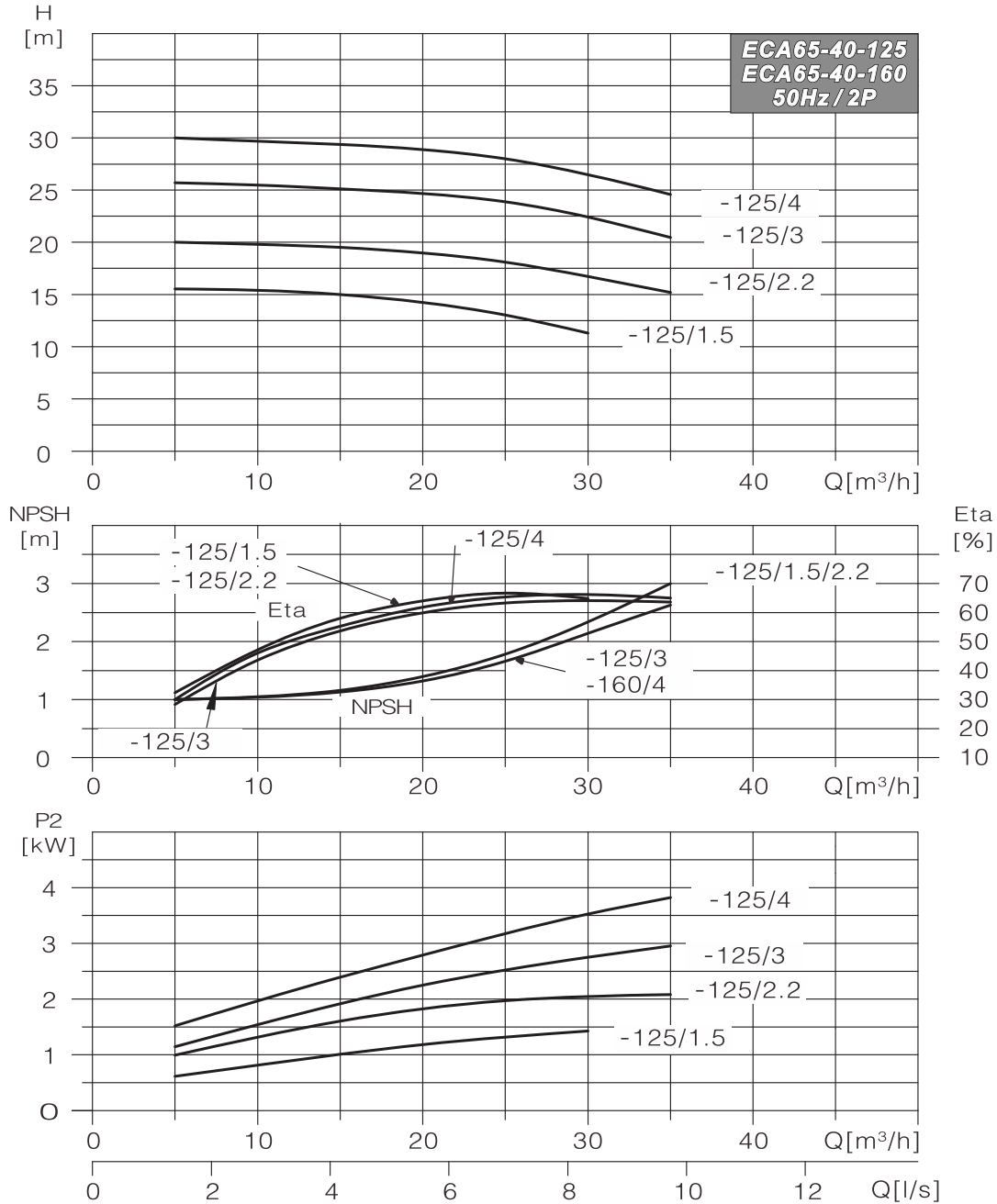


#### ● Performance Table

Pump model	Power		Q (m³/h)	3	6.3	9	12.5	15	18	20
	( kW )	( HP )								
ECA50-32-200/3	3	4	H (m)	34.9	34.1	33.3	32	30.9	29.6	28.7
ECA50-32-200/4	4	5.5		45.7	44.8	43.7	42	40.6	38.8	37.5
ECA50-32-200/5.5	5.5	7.5		58.5	57.2	56	54	52.4	49.8	48.3

### ECA65-40 Technical Data

#### ● Performance Curves

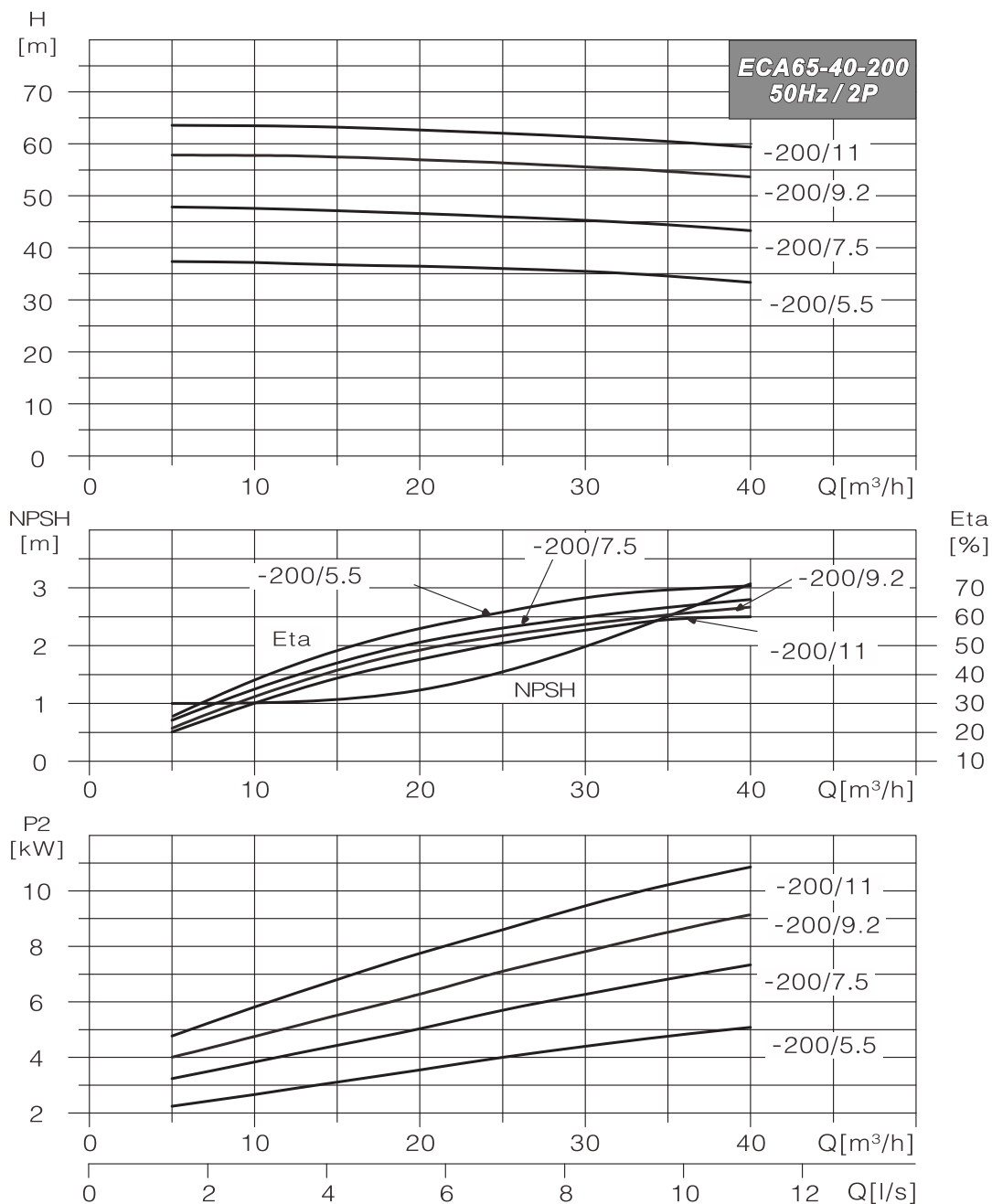


#### ● Performance Table

Pump model	Power		Q (m³/h)	5	10	15	20	25	30	35
	( kW )	( HP )								
ECA65-40-125/1.5	1.5	2	H (m)	15.6	15.4	15	14.4	13	11.1	
ECA65-40-125/2.2	2.2	3		20.1	19.7	19.5	19	18	16.5	15
ECA65-40-125/3	3	4		25.8	25.3	25.1	24.8	24	22.1	20.1
ECA65-40-160/4	4	5.5		30.1	29.7	29.3	28.9	28	26.3	24.3

### ECA65-40 Technical Data

#### ● Performance Curves

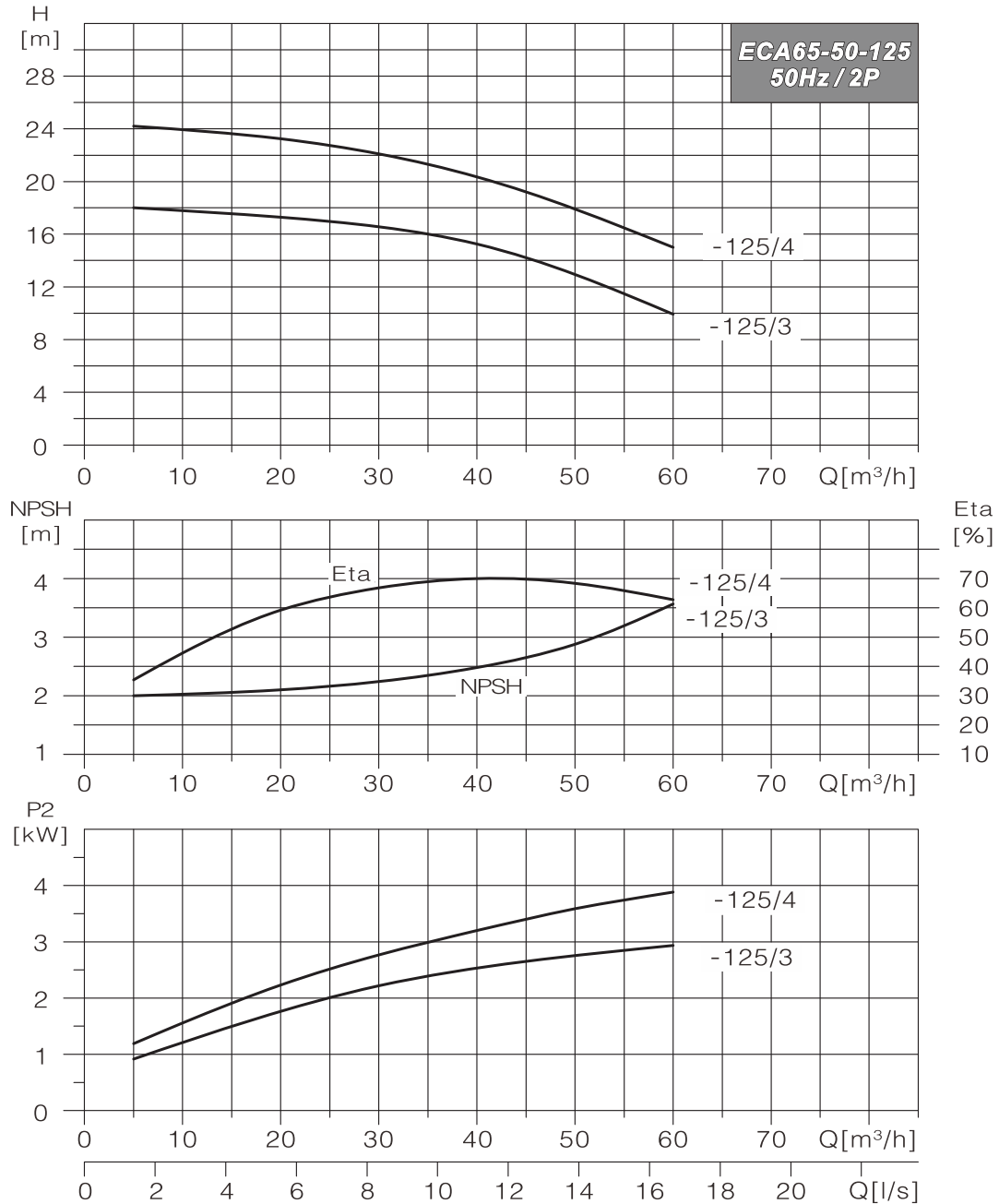


#### ● Performance Table

Pump model	Power		Q (m³/h)	5	10	15	20	25	30	35	40
	(kW)	(HP)									
ECA65-40-200/5.5	5.5	7.5	H (m)	37.5	37.2	36.7	36.4	36	35.5	34.5	33.1
ECA65-40-200/7.5	7.5	10		48.1	47.5	47	46.6	46	45.2	44.4	43.1
ECA65-40-200/9.2	9.2	12.5		57.9	57.5	57	56.5	56	55.3	54.2	52.8
ECA65-40-200/11	11	15		64.1	63.5	63	62.5	62	61.5	60.4	58.8

### ECA65-50 Technical Data

#### ● Performance Curves



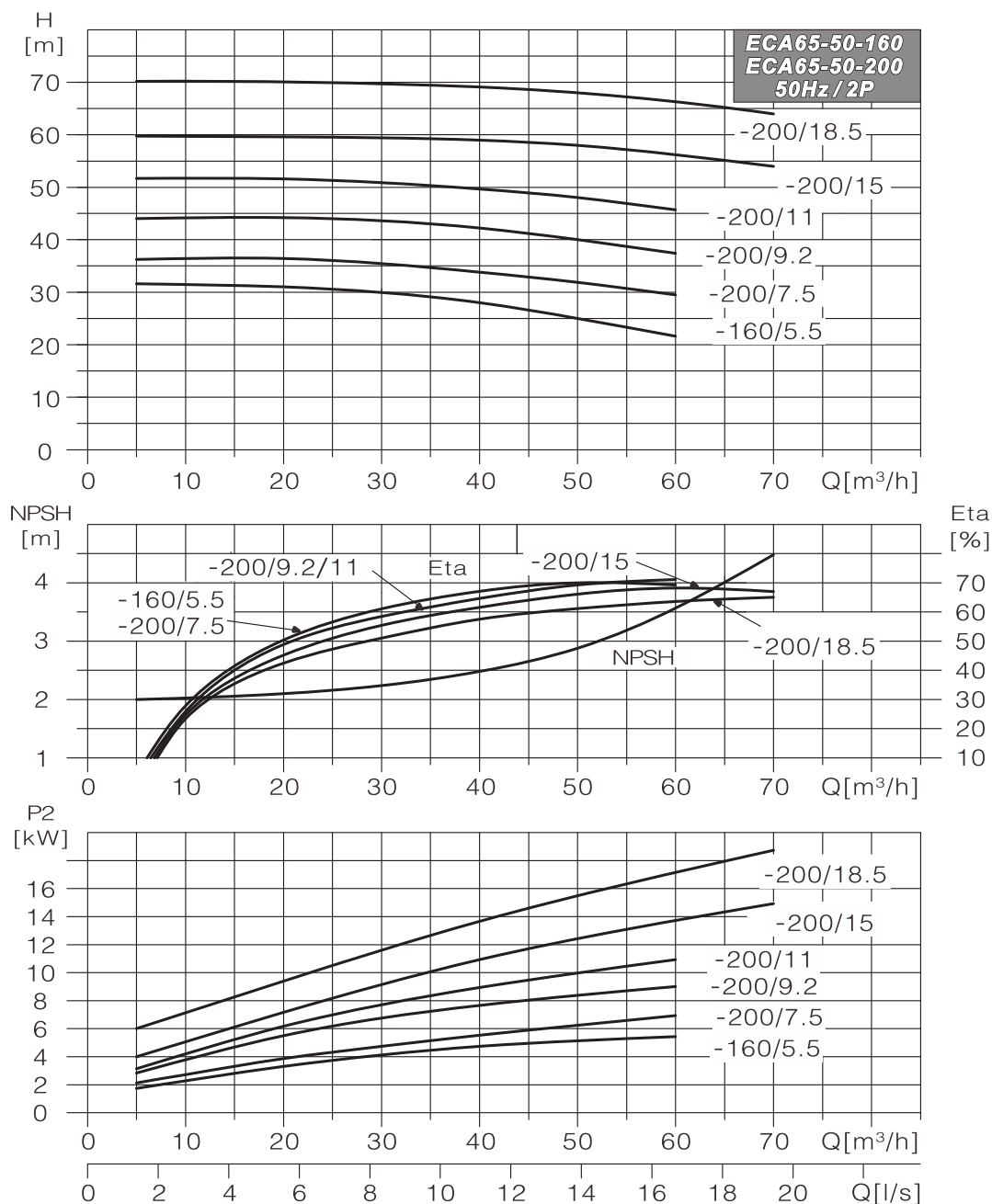
#### ● Performance Table

Pump model	Power		Q (m³/h)	5	10	20	30	40	50	60
	( kW )	( HP )								
ECA65-50-125/3	3	4	H (m)	18.1	17.9	17.2	16.4	15.1	13	9.9
ECA65-50-125/4	4	5.5		24.3	24.3	23.6	22.6	20.7	18	14.7



### ECA65-50 Technical Data

#### ● Performance Curves



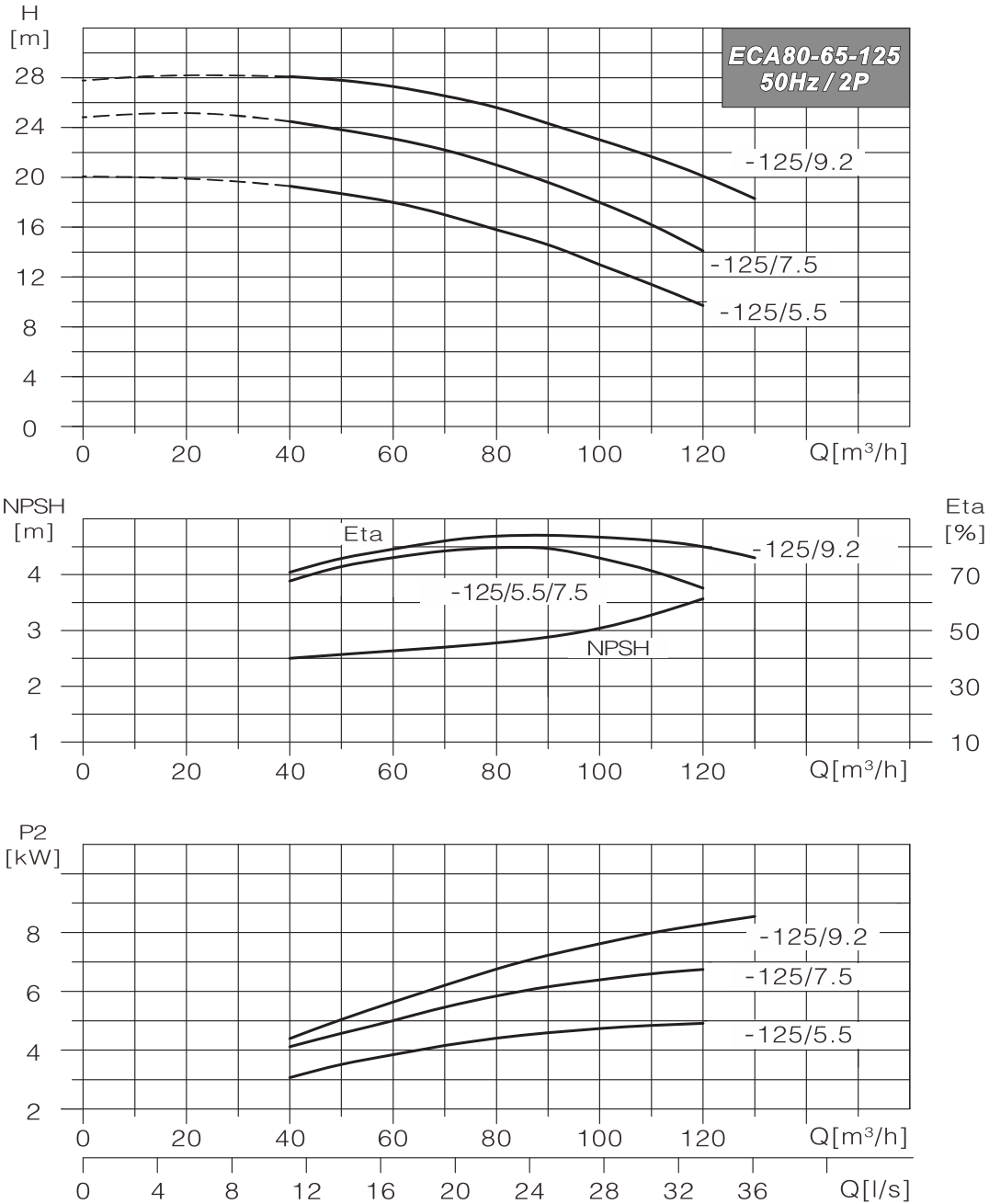
#### ● Performance Table

Pump model	Power		Q (m³/h)	5	10	20	30	40	50	60	70
	(kW)	(HP)									
ECA65-50-160/5.5	5.5	7.5	H (m)	31.7	31.6	31	30	28	25	21.3	
ECA65-50-200/7.5	7.5	10		36.4	36.7	36.4	35.6	34.1	32	29.4	
ECA65-50-200/9.2	9.2	12.5		43.6	43.6	43.5	43	42	40	37.3	
ECA65-50-200/11	11	15		51.6	51.6	51	50	49.3	48	45.4	
ECA65-50-200/15	15	20		59.8	59.8	59.6	59.5	59	58	56	52.8
ECA65-50-200/18.5	18.5	25		70.3	70.3	70.1	70	69.1	68	66.2	63.8



### ECA80-65 Technical Data

#### Performance Curves

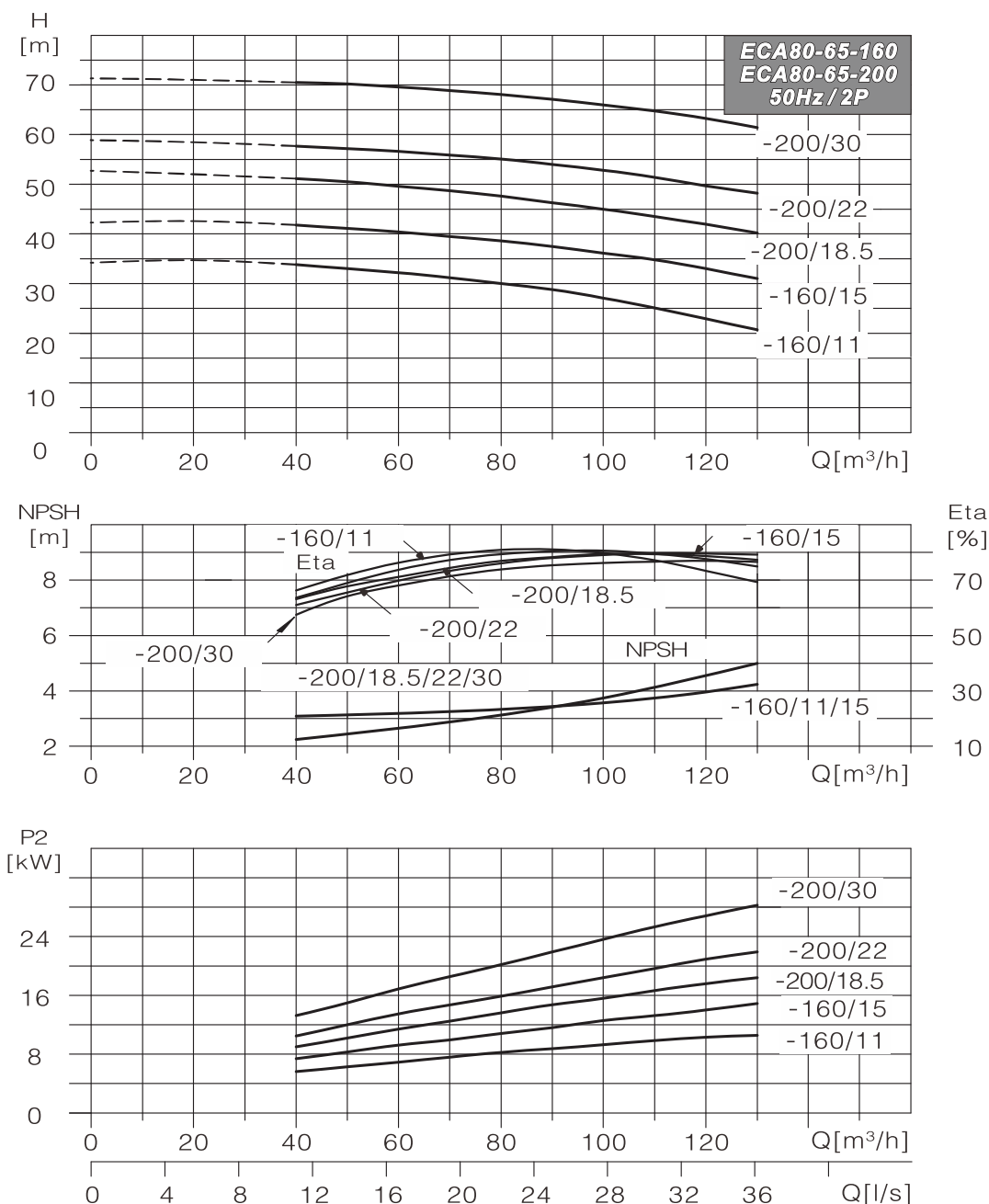


#### Performance Table

Pump model	Power		Q (m³/h)	40	50	60	70	80	90	100	110	120	130
	( kW )	( HP )											
ECA80-65-125/5.5	5.5	7.5	H (m)	19.4	18.8	18	17	15.8	14.8	13	11.4	9.5	
ECA80-65-125/7.5	7.5	10		24.6	23.9	23.1	22.2	21	19.6	18	16.2	13.9	
ECA80-65-125/9.2	9.2	12.5		28.2	27.9	27.3	26.6	25.7	24.3	23	21.8	19.9	18.1

### ECA80-65 Technical Data

#### ● Performance Curves

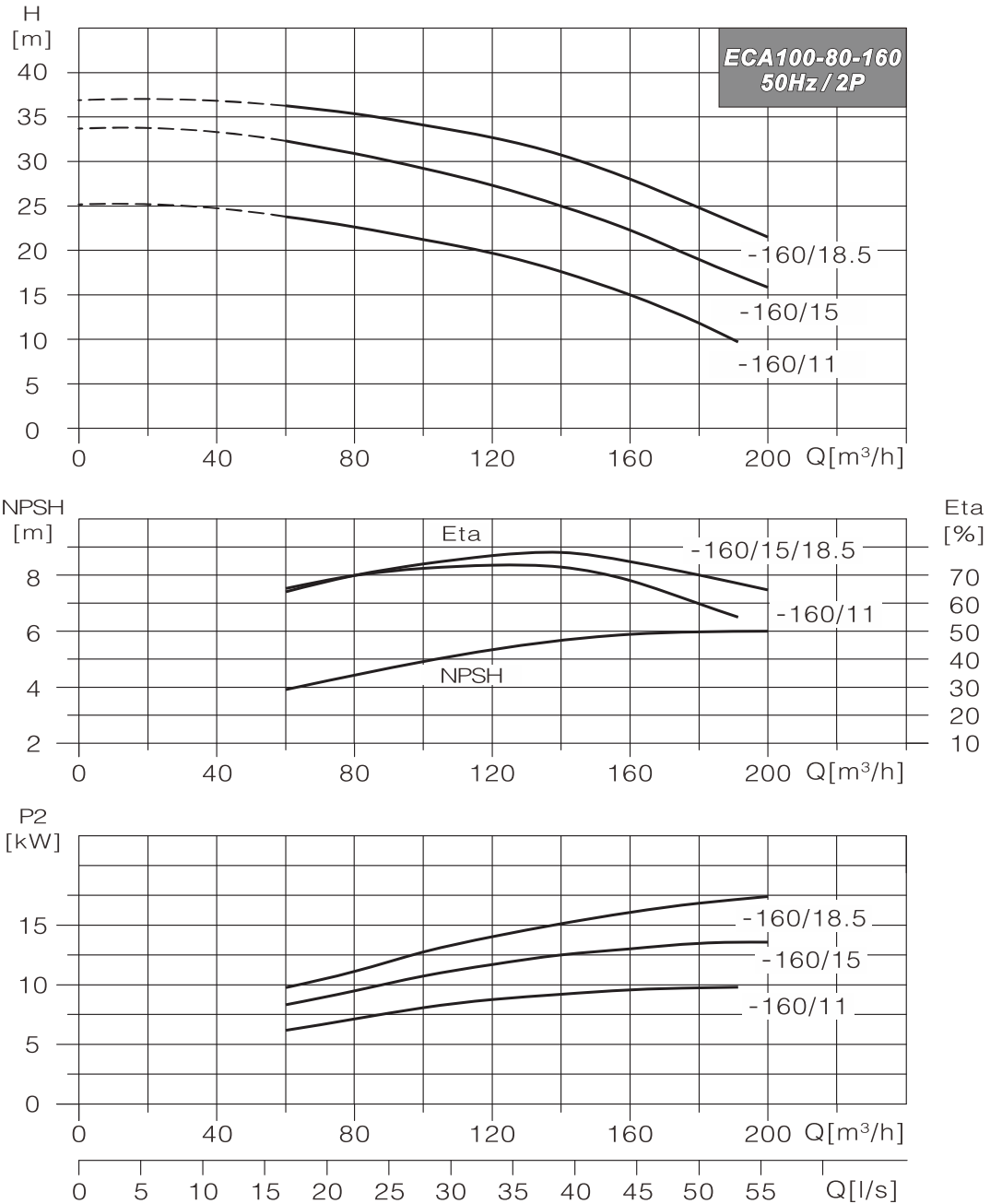


#### ● Performance Table

Pump model	Power		Q (m³/h)	40	50	60	70	80	90	100	110	120	130
	( kW )	( HP )											
ECA80-65-160/11	11	15	H (m)	34	33.1	32.2	31.3	29.9	28.8	27	25.1	22.7	20.5
ECA80-65-160/15	15	20		41.9	41.2	40.4	39.5	38.6	37.6	36	34.8	32.8	30.8
ECA80-65-200/18.5	18.5	25		51.1	50.6	49.6	48.7	47.6	46.3	45	43.5	42	40
ECA80-65-200/22	22	30		57.8	57.3	56.8	55.9	55.1	54	53	51.6	49.5	48
ECA80-65-200/30	30	40		70.3	70.3	69.6	68.9	68.2	67.1	66	64.6	63.1	61.2

### ECA100-80 Technical Data

#### ● Performance Curves

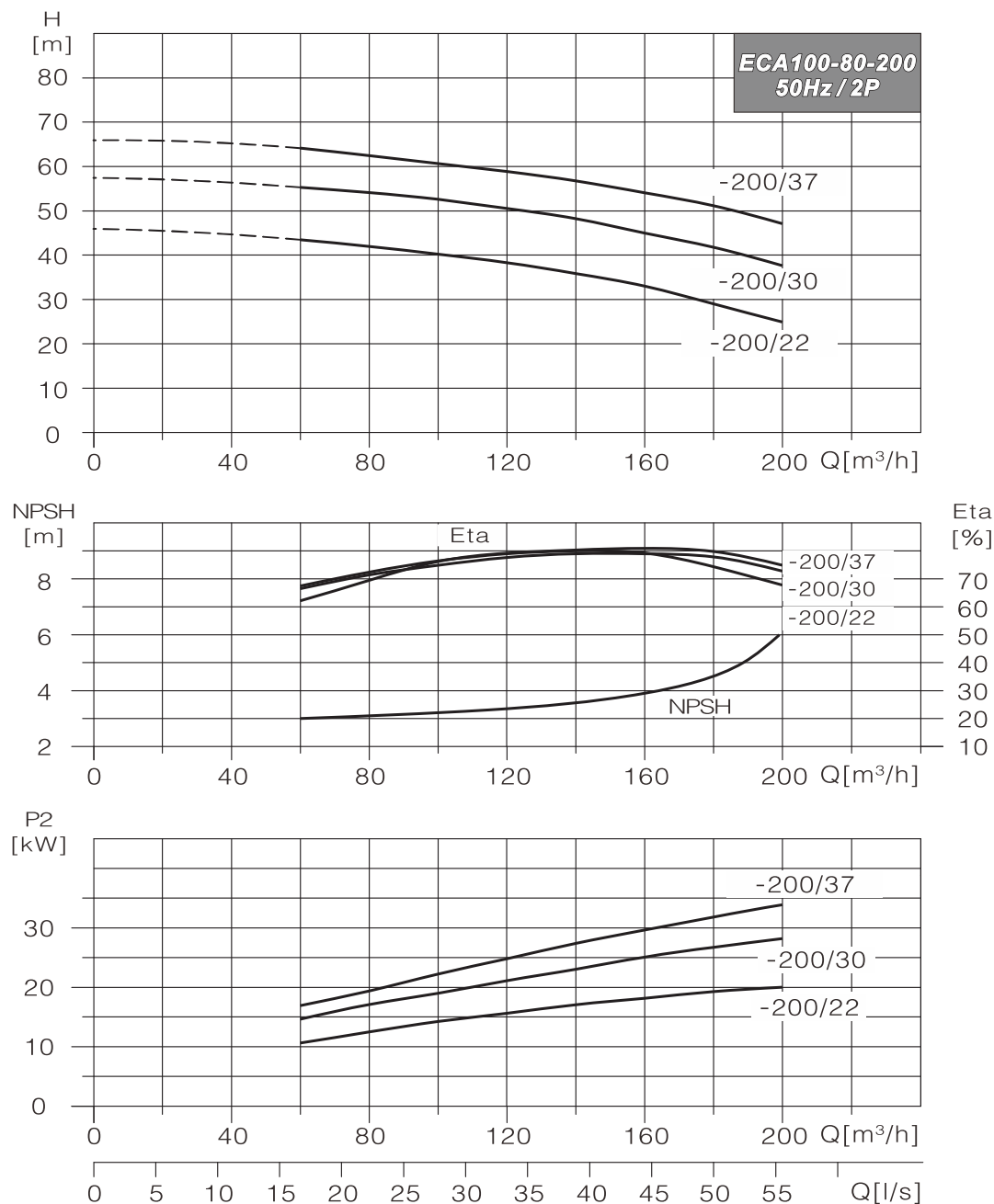


#### ● Performance Table

Pump model	Power		Q (m³/h)	60	80	100	120	140	160	180	192	200
	( kW )	( HP )										
ECA100-80-160/11	11	15	H (m)	23.9	22.8	21.1	19.7	17.6	15	11.8	9.5	
ECA100-80-160/15	15	20		32.4	30.9	29.1	27.2	25.1	22	18.8		16
ECA100-80-160/18.5	18.5	25		36.3	35.3	33.8	32.7	31	28	24.8		21.4

### ECA100-80 Technical Data

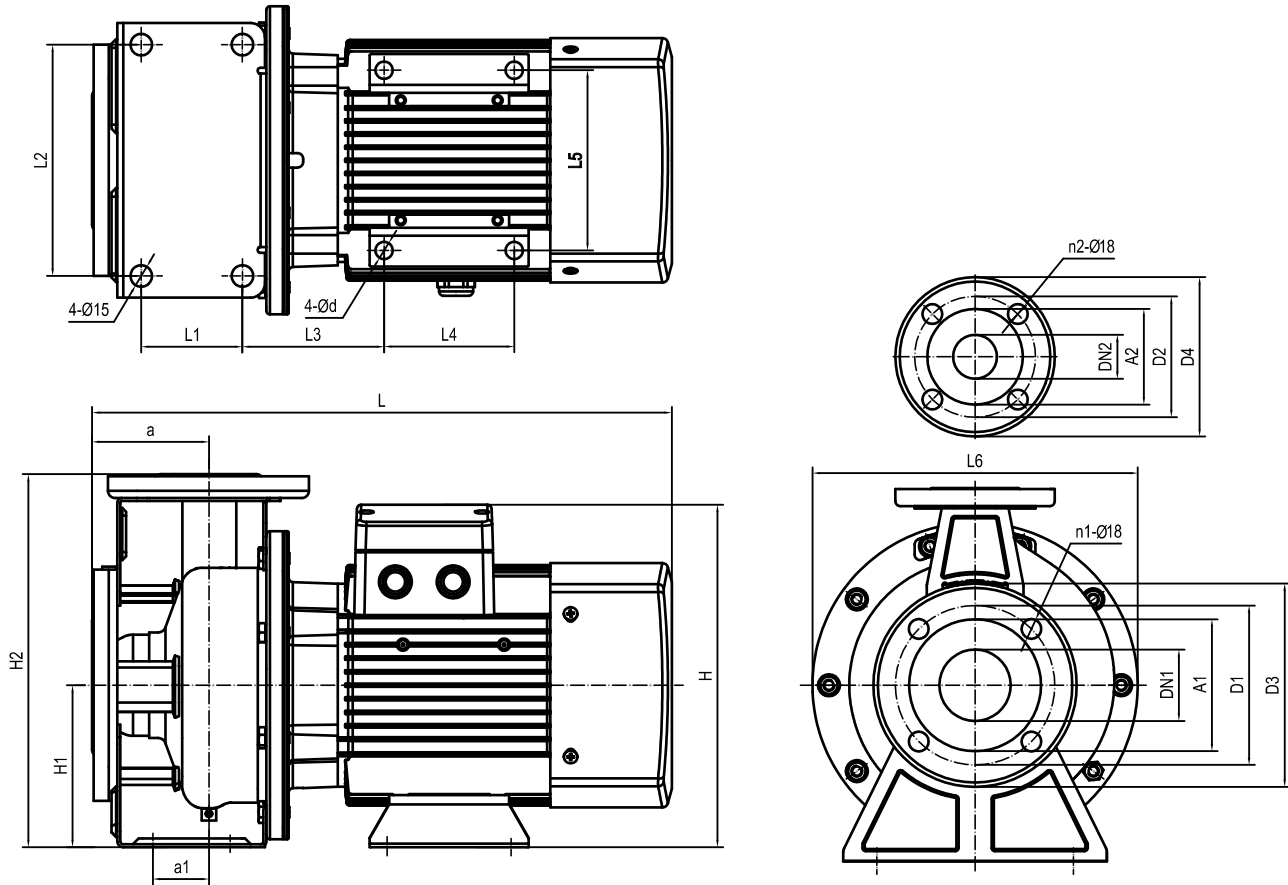
#### ● Performance Curves



#### ● Performance Table

Pump model	Power		Q (m³/h)	60	80	100	120	140	160	180	200
	( kW )	( HP )									
ECA100-80-200/22	22	30	H (m)	43.6	42.1	39.7	38.3	35.9	33	29	24.8
ECA100-80-200/30	30	40		55.5	54.2	52.6	50.5	48.2	45	41.9	37.5
ECA100-80-200/37	37	50		64.2	62.6	61	59	57.4	54	51.2	47

### Installation Dimension & Weight



Model	Dimension ( mm )																								Weight ( kg )
	DN1	DN2	A1	A2	D1	D2	D3	D4	n1	n2	a	a1	d	H	H1	H2	L	L1	L2	L3	L4	L5	L6		
ECA50-32-160/1.1	50	32	98	75	125	100	160	139	4	4	80	/	12	250	112	256	377	/	/	84	90	125	210	22	
ECA50-32-160/1.5	50	32	98	75	125	100	160	139	4	4	80	/	12	267	112	256	401	/	/	100	90	125	210	26	
ECA50-32-160/2.2	50	32	98	75	125	100	160	139	4	4	80	/	12	267	112	256	401	/	/	106	100	158	210	28	
ECA50-32-200/3	50	32	98	75	125	100	160	139	4	4	84	/	12	330	160	346	464	/	/	120	100	158	300	38	
ECA50-32-200/4	50	32	98	75	125	100	160	139	4	4	84	/	12	353	160	346	464	/	/	115	100	158	300	42	
ECA50-32-200/5.5	50	32	98	75	125	100	160	139	4	4	84	35	15	373	160	346	504	70	212	110	140	195	300	55	
ECA65-40-125/1.5	65	40	118	84	145	110	185	145	4	4	80	/	12	267	112	254	401	/	/	102	90	125	210	23	
ECA65-40-125/2.2	65	40	118	84	145	110	185	145	4	4	80	/	12	267	112	254	401	/	/	108	100	158	210	25	
ECA65-40-125/3	65	40	118	84	145	110	185	145	4	4	80	/	12	282	112	254	464	/	/	129	100	158	250	26	
ECA65-40-160/4	65	40	118	84	145	110	185	145	4	4	80	/	12	305	112	254	464	/	/	118	100	158	250	29	

Model	Dimension ( mm )																								Weight
	DN1	DN2	A1	A2	D1	D2	D3	D4	n1	n2	a	a1	d	H	H1	H2	L	L1	L2	L3	L4	L5	L6	(kg)	
ECA65-40-200/5.5	65	40	118	84	145	110	185	145	4	4	100	35	15	373	160	340	529	70	212	122	140	195	300	43	
ECA65-40-200/7.5	65	40	118	84	145	110	185	145	4	4	100	35	15	373	160	340	529	70	212	123	140	195	300	45	
ECA65-40-200/9.2	65	40	118	84	145	110	185	145	4	4	100	35	15	373	160	340	567	70	212	143	140	195	300	52	
ECA65-40-200/11	65	40	118	84	145	110	185	145	4	4	100	35	15	416	160	340	618	70	212	122	210	254	350	100	
ECA65-50-125/3	65	50	118	98	145	125	185	160	4	4	86	/	12	302	132	298	481	/	/	126	100	158	250	35	
ECA65-50-125/4	65	50	118	98	145	125	185	160	4	4	86	/	12	325	132	298	481	/	/	130	100	158	250	39	
ECA65-50-160/5.5	65	50	118	98	145	125	185	160	4	4	100	35	15	373	160	340	529	70	212	124	140	195	300	55	
ECA65-50-160/7.5	65	50	118	98	145	125	185	160	4	4	100	35	15	373	160	340	529	70	212	124	140	195	300	58	
ECA65-50-200/9.2	65	50	118	98	145	125	185	160	4	4	100	35	15	373	160	340	567	70	212	144	140	195	300	65	
ECA65-50-200/11	65	50	118	98	145	125	185	160	4	4	100	35	15	416	160	340	618	70	212	122	210	254	350	99	
ECA65-50-200/15	65	50	118	98	145	125	185	160	4	4	100	35	15	416	160	340	618	70	212	122	210	254	350	113	
ECA65-50-200/18.5	65	50	118	98	145	125	185	160	4	4	100	35	15	416	160	340	662	70	212	122	254	254	350	126	
ECA80-65-125/5.5	80	65	130	118	160	145	200	185	8	4	100	48	15	373	160	340	541	95	212	103	140	195	300	61	
ECA80-65-125/7.5	80	65	130	118	160	145	200	185	8	4	100	48	15	373	160	340	541	95	212	103	140	195	300	63	
ECA80-65-125/9.2	80	65	130	118	160	145	200	185	8	4	100	48	15	373	160	340	579	95	212	122	140	195	300	69	
ECA80-65-160/11	80	65	130	118	160	145	200	185	8	4	100	48	15	416	160	360	625	95	212	100	210	254	350	101	
ECA80-65-160/15	80	65	130	118	160	145	200	185	8	4	100	48	15	416	160	360	625	95	212	100	210	254	350	113	
ECA80-65-200/18.5	80	65	130	118	160	145	200	185	8	4	100	48	15	436	180	405	669	95	250	91	254	254	350	129	
ECA80-65-200/22	80	65	130	118	160	145	200	185	8	4	100	48	15	460	180	405	669	95	250	102	254	254	350	139	
ECA80-65-200/30	80	65	130	118	160	145	200	185	8	4	100	48	15	495	180	405	827	95	250	141	305	318	350	255	
ECA100-80-160/11	100	80	150	130	180	160	220	200	8	8	125	48	15	436	180	405	675	95	250	103	210	254	350	100	
ECA100-80-160/15	100	80	150	130	180	160	220	200	8	8	125	48	15	436	180	405	675	95	250	103	210	254	350	113	
ECA100-80-160/18.5	100	80	150	130	180	160	220	200	8	8	125	48	15	436	180	405	719	95	250	103	254	254	350	129	
ECA100-80-200/22	100	80	150	130	180	160	220	200	8	8	125	55	15	460	180	430	719	95	280	100	254	254	350	140	
ECA100-80-200/30	100	80	150	130	180	160	220	200	8	8	125	55	15	495	180	430	860	95	280	158	305	318	350	258	
ECA100-80-200/37	100	80	150	130	180	160	220	200	8	8	125	55	15	495	180	430	860	95	280	158	305	318	350	293	

