ESC Close Coupled Cast Iron Pumps

Technical Data: EN733 End Suction 50Hz Range

Modus®
FLUID TECHNOLOGY

Introduction 1
Performance Overview: 2 Pole and 4 Pole Models 2

2 Pole Performance 3
Performance Data Table 4-7
ESC32 Performance Curves 8-12
ESC40 Performance Curves 13-17
ESC50 Performance Curves 18-22
ESC65 Performance Curves 23-26
ESC80 Performance Curves 27-28

4 Pole Performance 29
Performance Data Table 30-33
ESC32 Performance Curves 34-37
ESC40 Performance Curves 38-42
ESC50 Performance Curves 43-47
ESC65 Performance Curves 48-52
ESC80 Performance Curves 53-56
ESC100 Performance Curves 57-59
ESC125 Performance Curves 60-61

Spare Parts and Materials of Construction 63
Drawings and Parts Lists 64-65
Component Materials 66

Dimensions and Weights 67
2 Pole Models 68-69
4 Pole Models 70-71
Notes 72-73

ESC Series

ESC Series pumps are designed for transferring non-abrasive liquids that are not aggressive, and are compatible with the materials of the pump. Used in the industrial, commercial and agricultural sectors for the following applications:

- HVAC Circulation
- Water Transfer
- Pressure Boosting
- Industrial Water Supply
- Irrigation

Specification:

- Close-coupled end suction centrifugal pumps that conform to EN733 (Ex DIN 24255), with asynchronous 2 pole or 4 pole motors.
- Back pullout design allows motor and impeller unit to be removed without disconnecting the pipework.

Performance Range:

- Flow rate up to 400m³/hr (6667 litres/minute)
- Head up to 100 metres

Temperature Ratings:

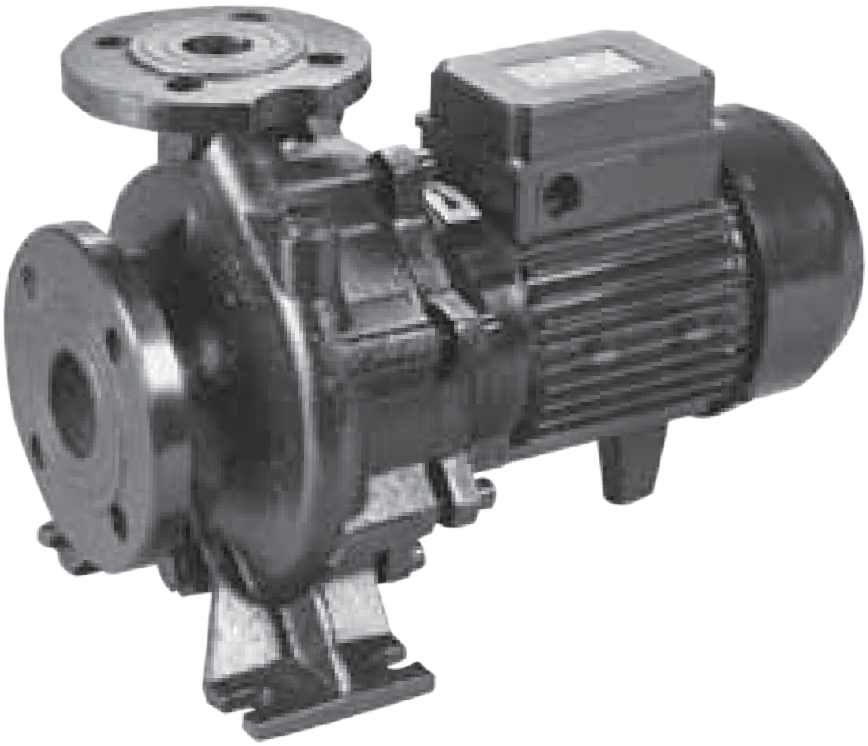
- Liquid temperature range: From -15°C to +120°C
- Maximum temperature of pump surroundings: 40°C

Standard Motor Ratings:

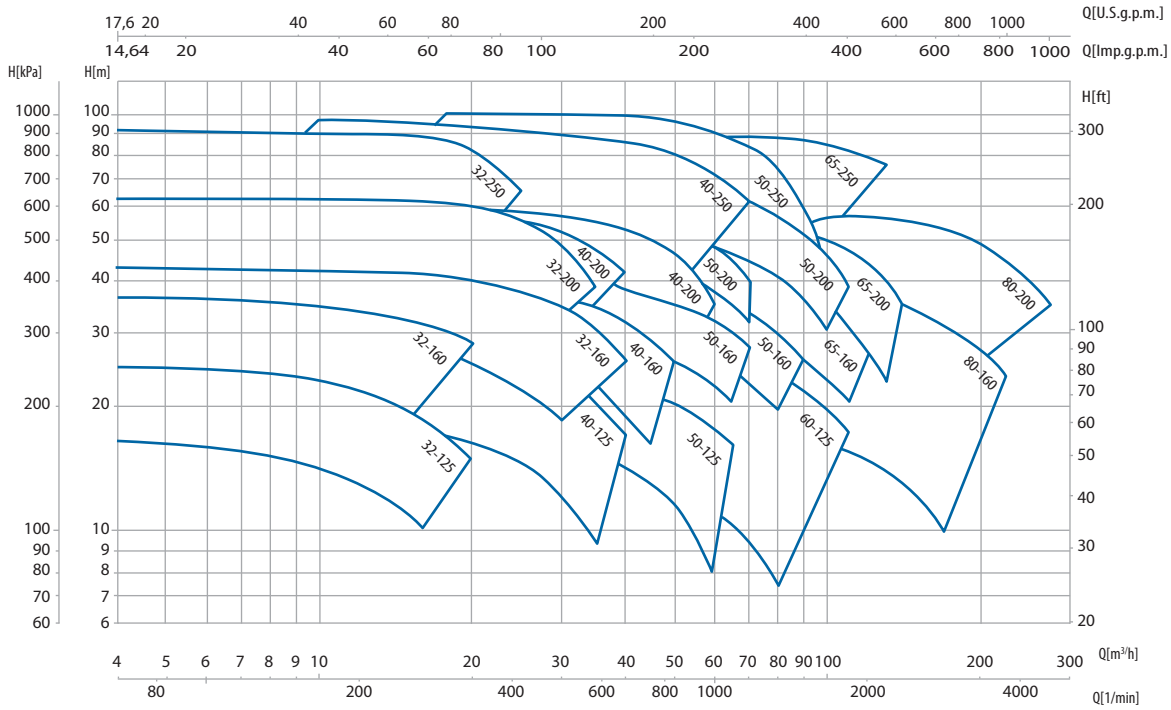
- Externally vented
- 400/3/50
- IE2
- IP55
- Class F
- 2 Pole or 4 Pole

Special Options:

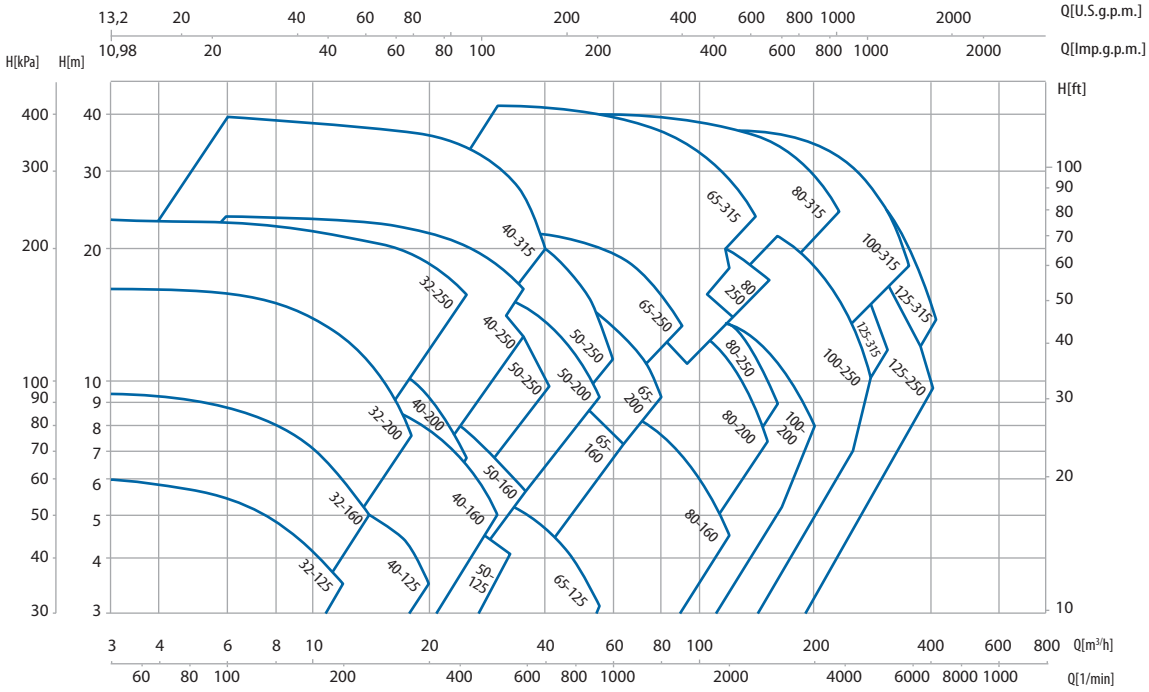
Other Voltages
60Hz Frequency
Special Mechanical Seal
Bronze or Stainless Steel Pump Casing
Bronze or Stainless Steel Impeller

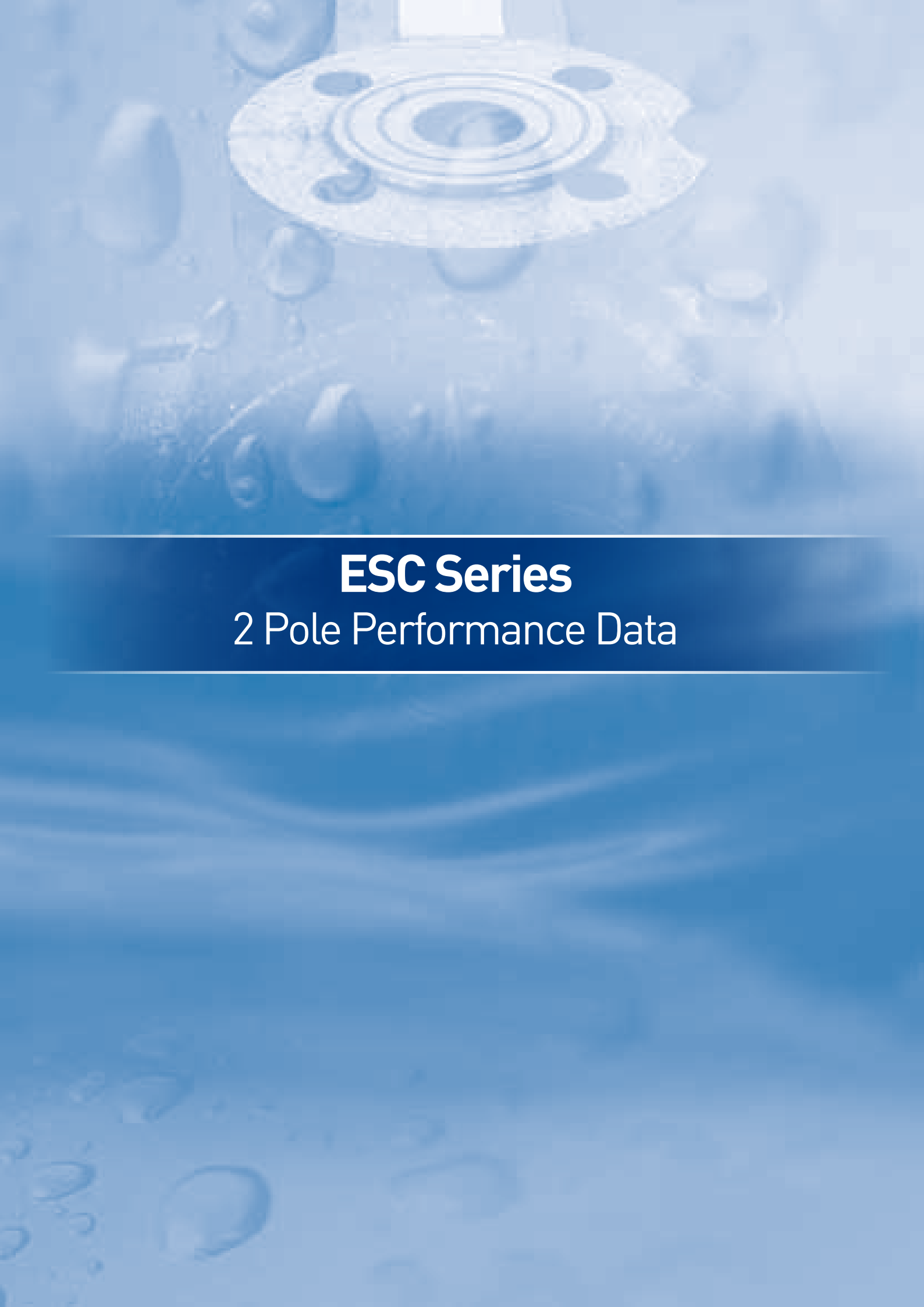


ESC 2 Pole



ESC 4 Pole





ESC Series

2 Pole Performance Data

ESC SERIES
2 Pole Performance Data

Performance Data ESC32 - ESC40

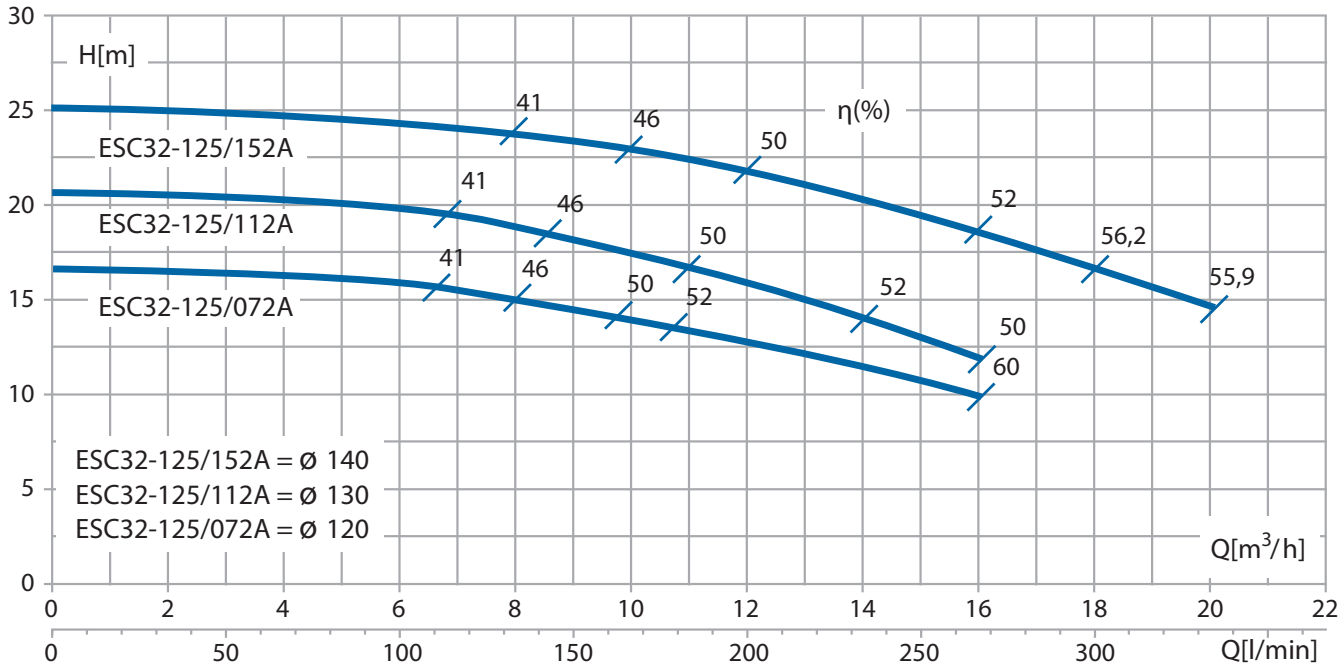
Model	P2		US gpm	0	17	26	35	44	53	62		70	79	88	110	132	154	176	198	220	242	264	286	308
			Q m³/h	0	4	6	8	10	12	14		16	18	20	25	30	35	40	45	50	55	60	65	70
	kW	HP	l/min	0	67	100	133	167	200	233		267	300	333	417	500	583	667	750	833	917	1000	1083	1167
ESC 32-125/072A	0,75	1		17	16,6	16	15,3	14,3	13,2	11,8		10,3												
ESC 32-125/112A	1,1	1,5		21	20,6	20,1	19,2	17,8	15,8	14,1		12,3												
ESC 32-125/152A	1,5	2		25,4	25	24,6	24,1	23,2	22	20,5		18,8	16,9	15										
ESC 32-160/152A	1,5	2		28	27,4	27	26,3	25,6	24,8	23,4		22,3	20,7	18,5										
ESC 32-160/222A	2,2	3		33	32,2	32	31	30,2	29,2	28		27	25	23,2										
ESC 32-160/302A	3	4		37	36,5	36	35,4	34,7	33,8	32,8		31,6	30,1	28,3										
ESC 32-160/402A	4	5,5		36,4			36,4	36,2	35,8	35,4		34,7	34	33,2	31	27,5	23							
ESC 32-160/552A	5,5	7,5		43			42,4	42,2	41,9	41,3		41	40,5	39,8	38	34,5	31,1	26						
ESC 32-200/402A	4	5,5		46		45	44	43	41,3	39,8		38,2	36,2	34,4	27,5									
ESC 32-200/552A	5,5	7,5		53,6		53	52,8	52,5	51,7	51,1		50,2	49,8	47,4	43	35								
ESC 32-200/752A	7,5	10		63		62,8	62,6	62,5	62,3	62,2		62	60,6	59,5	57,5	49,7	38,6							
ESC 32-250/752A	7,5	10		64			63	62,6	62,4	61,8		61,3	60,9	59	56									
ESC 32-250/922A	9,2	12,5		70			69,8	69,6	69,3	68,9		68,4	68,1	67,3	65,3	63								
ESC 32-250/1102A	11	15		76,3			76,3	76	75,7	75,3		74,8	74,4	73,8	71,4	68,8								
ESC 32-250/1352A	13,5	18,3	HEAD (m)	86			83,5	83	82,2	81,9		81,3	80,8	80	79,2	75	55							
ESC 32-250/1702A	17	23		94			92	91	90,5	90		89,5	89	88,4	87,3	86	66							
ESC 40-125/152A	1,5	2		18,5			18,5	18,3	18,1	17,8		17,5	16,9	16,2	14,8	12,5	9,4							
ESC 40-125/222A	2,2	3		22				22	22	21,8		21,5	21,2	20,8	19,4	17,5	14,9							
ESC 40-125/302A	3	4		27,5				27,5	27,3	27,1		26,8	26,4	26	24,5	23	19,8	17,2						
ESC 40-160/402A	4	5,5		32					31,6	31,4		31	30,7	30,2	28,8	26,7	23	21	16					
ESC 40-160/552A	5,5	7,5		39					39	39		38,9	38,8	38,7	37,4	36	33,8	31,8	28,7	25,4	22			
ESC 40-200/402A	4	5,5		45					43,9	43,7		43,5	42,2	41,2	37,3	33,5								
ESC 40-200/552A	5,5	7,5		48,8					48,3	48		47,5	46,8	46	43,6	40,4	36,5	31,4						
ESC 40-200/752A	7,5	10		58,2					58	57,9		57,9	57,6	57	55	52	48	42						
ESC 40-250/922A	9,2	12,5		63					61	60,6		60,3	59,1	58	54,5	50	49	45						
ESC 40-250/1102A	11	15		70,6					68,1	67,2		66,4	65,5	64,5	62,5	59,5	56,5	53						
ESC 40-250/1502A	15	20		88					87,6	86,9		86,3	85,7	85	82,9	79	75	71						
ESC 40-250/1702A	17	23		82				81	80,8	80,5		80,2	80	79	78	76,5	75	73	70,5	68	65	62	57,5	55
ESC 40-250/1852A	18,5	25		89				88,5	88,3	87,9		87,6	87,3	86	85,5	84	82,1	80	77,5	74,6	71,4	68	63,4	60
ESC 40-250/2202A	22	30		98				95,8	95,6	95,4		95	94,5	93,2	91,6	89,7	87,8	85,2	83,9	79	75,8	71,3	66,8	61

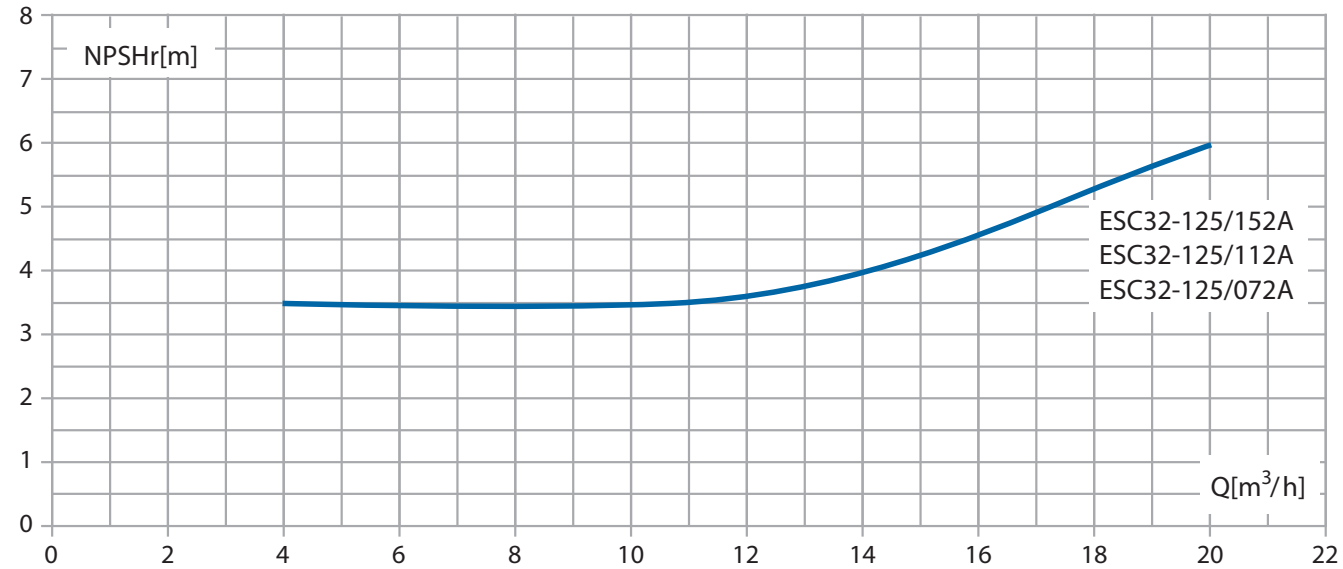
ESC SERIES
2 Pole Performance Data
Modus FLUID TECHNOLOGY

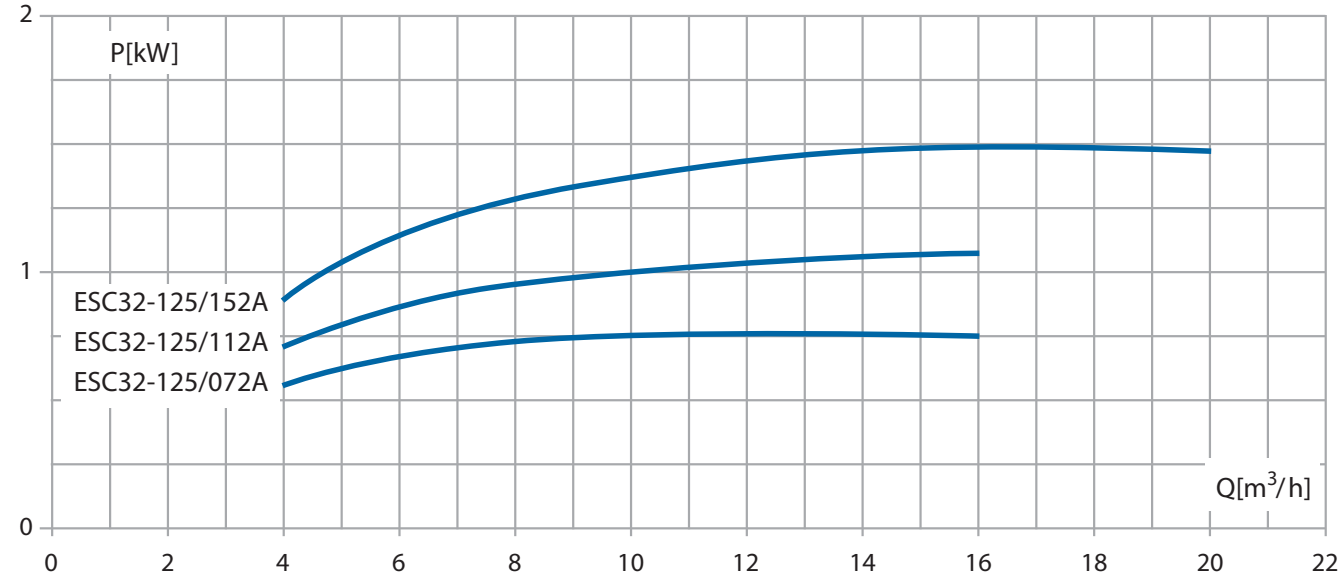
Performance Data ESC50 - ESC80

Model	P2		US gpm	0	79	88	110	132	154	176	198		220	242	264	286	308	330	352	396	440	484	528	572	616
			Q m³/h	0	18	20	25	30	35	40	45		50	55	60	65	70	75	80	90	100	110	120	130	140
	kW	HP	l/min	0	300	333	417	500	583	667	750		833	917	1000	1083	1167	1250	1333	1500	1667	1833	2000	2167	2333
ESC 50-125/222A	2,2	3	HEAD (m)	17,5	17,2	17	16,7	16	15,2	14,3	13,2		12	10	8										
ESC 50-125/302A	3	4		21,2		20,6	20	19,4	18,6	17,6	16,6		15,3	13,9	13	11									
ESC 50-125/402A	4	5,5		24,2			24,4	23,9	23,2	22,4	21,4		20,3	19,1	17,7	17									
ESC 50-160/552A	5,5	7,5		32,5			32	31,1	30,1	28,8	27,5		25,9	24,1	22,3	20,3	18,4	16,6							
ESC 50-160/752A	7,5	10		40,4			40	39,4	38,6	37,7	36,6		35,2	33,7	31,8	29,7	27,6	25,7							
ESC 50-200/922A	9,2	12,5		52,2			52,1	51	49,6	47,8	45,9		43,4	41	38,2	35	32,3	28,4							
ESC 50-200/1102A	11	15		58			57,3	55,8	54,3	52,3	50,1		47,2	44,2	40,8	37,3	33,8								
ESC 50-200/1502A	15	20		53,3									49,2	48	46,5	46	44,5	43	41,5	36,5	30,5				
ESC 50-200/1702A	17	23		61,5									56,4	55	53	51,5	50	48	47	42	37				
ESC 50-200/2202A	22	30		71									66,8	66	65	64	62	60	58	52,5	45,5	38	31,5		
ESC 50-250/1702A	17	23		69			68,5	67	66	64	62,5		61	58	56	50,5	47,3	44,2	40,2						
ESC 50-250/2002A	20	27		80			79	78,5	77,5	76	74,5		72	70	68	64,5	61,5	58	54						
ESC 50-250/2502A	25	34		88,5			88	87	86,5	85	84		82	80	77	74	71	68	64,5	57	44				
ESC 50-250/3002A	30	40		100,5			100	99,5	99	98	97		94,5	93	90,5	87,5	84	80	76,5	65	54				
ESC 65-125/302A	3	4		12,5				12	12	11,9	11,8		11,6	11,4	11	10	9,5	8	7,4						
ESC 65-125/402A	4	5,5		17				16	15,9	15,6	15,5		15,4	15,2	15	14,6	14,2	13,5	13	11	8				
ESC 65-125/552A	5,5	7,5		21,5				21	21	20,9	20,9		20,8	20,7	20,5	20	19,9	19	18,1	16,4	14				
ESC 65-125/752A	7,5	10		26,5				26	26	25,9	25,9		25,8	25,7	25,6	25,4	25	24,5	24	22	19,4	17			
ESC 65-160/922A	9,2	12,5		32,8				32,3	31,8	31,6	31,2		30,8	30,6	30,1	29,3	28,7	27,8	27,1	25,2	23,1	20,3			
ESC 65-160/1102A	11	15		39,3				38,8	38,6	38,3	38		37,8	37,5	37	36,7	36,2	35,8	35	33,5	31,6	29,2			
ESC 65-160/1502A	15	20		43				43	42,8	42,7	42,5		42,3	41,9	41,7	41,4	40,8	40,4	39,7	38,2	36,2	33,5	30	28	
ESC 65-200/1502A	15	20		43									42	41,6	41	40,5	39,8	39	38	35,9	33	31	27	23	
ESC 65-200/1852A	18,5	25		48									47,9	47,3	47	46,9	46,2	45,8	45	42,8	40	36,9	33	30	25
ESC 65-200/2202A	22	30		55									55,1	55	54,9	54,2	54	53,5	53	51,5	49,5	47	44,2	41	35
ESC 65-250/2202A	22	30		68,2									68,8	68,5	68	67,5	67	66,3	65,3	63,8	62,8				
ESC 65-250/3002A	30	40		76									75	74,7	74,4	74	73,5	73	72,5	72	69	67	63,5		
ESC 65-250/3702A	37	50		89									89,5	89,2	89	88,5	88	87	86,5	85	84	82	79,5	76	

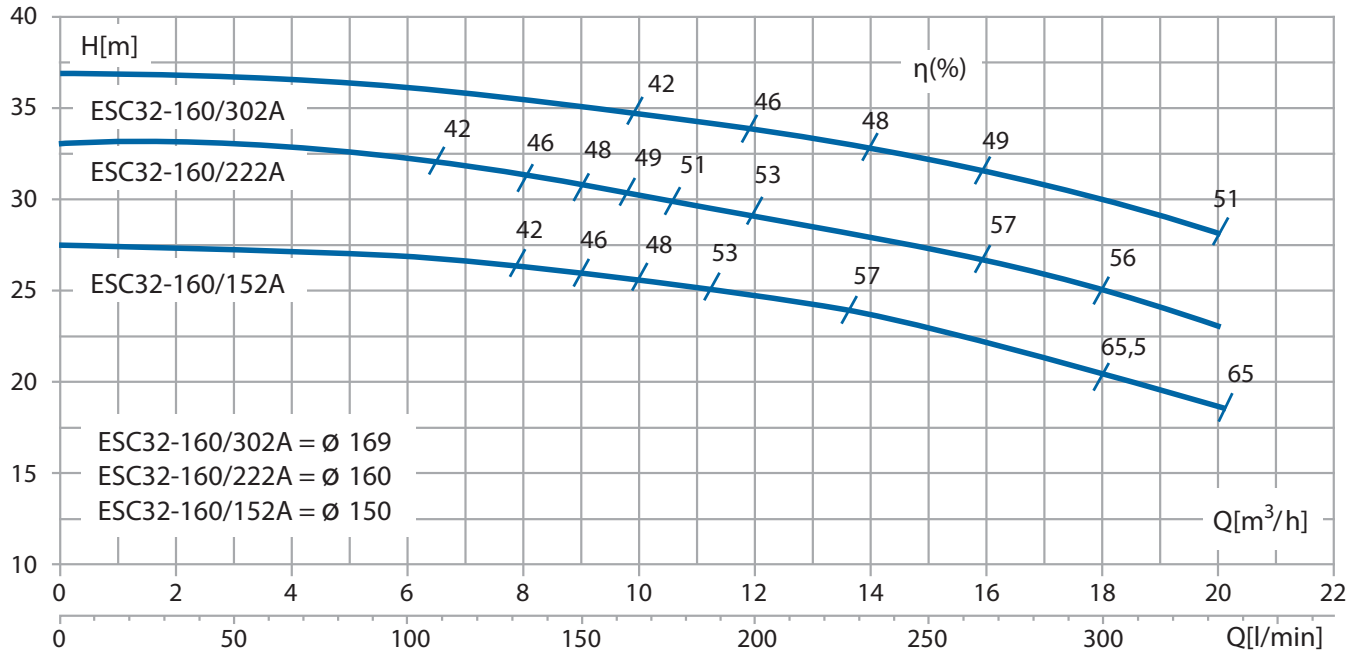
Type	P2		US gpm	0	286	308	330	352	396	440	484		528	572	616	660	704	726	748	792	858	924	990	1100	1210
			Q m³/h	0	65	70	75	80	90	100	110		120	130	140	150	160	165	170	180	195	210	225	250	275
	kW	HP	l/min	0	1083	1167	1250	1333	1500	1667	1833		2000	2167	2333	2500	2667	2752,5	2833	3000	3250	3500	3750	4172	4589,5
ESC 80-160/552A	5,5	7,5	HEAD (m)	17,8	17,3	16,5	16	15,8	15	14	13,1		12	11	10										
ESC 80-160/752A	7,5	10		20,2	19,9	19,4	19	18,5	18	17	16		15	14,5	13,7	11,7	11	10,5							
ESC 80-160/922A	9,2	12,5		25,3	25,3	25	24,8	24,5	24,2	23	22		21	20,2	19,1	18,1	16,7	16							
ESC 80-160/1102A	11	15		26,5	26,5	26,3	26,1	25,9	25,4	24,5	23,8		23	21,9	20,8	19,6	18,2	17,6	16	14,8					
ESC 80-160/1502A	15	20		30,5		30,5	30,5	30,2	30	28,5	27,5		26,5	25	24	22,4	21	20	19,5	18,5	17				
ESC 80-160/1852A	18,5	25		37		36	35,8	35,2	34,5	33,6	32,6		31,8	30,5	29,5	28,4	27	26,4	25,5	24,1	21				
ESC 80-160/2202A	22	30		40,3		40,2	40	39,9	39,4	39	38,2		37,5	36,6	35,9	34,7	33,5	32,8	31,3	30,5	28,8	25,5	23,5		
ESC 80-200/3002A	30	40		50				52,5	52	51,3	50,5		50,4	48,9	47,9	46,5	45,6	45	44,5	44	41	39	37	31	
ESC 80-200/3702A	37	50		56				58,7	58,4	58	57,5		57	56	55,3	54,6	54	53,4	52,5	51,3	49,2	46,7	44	39	35

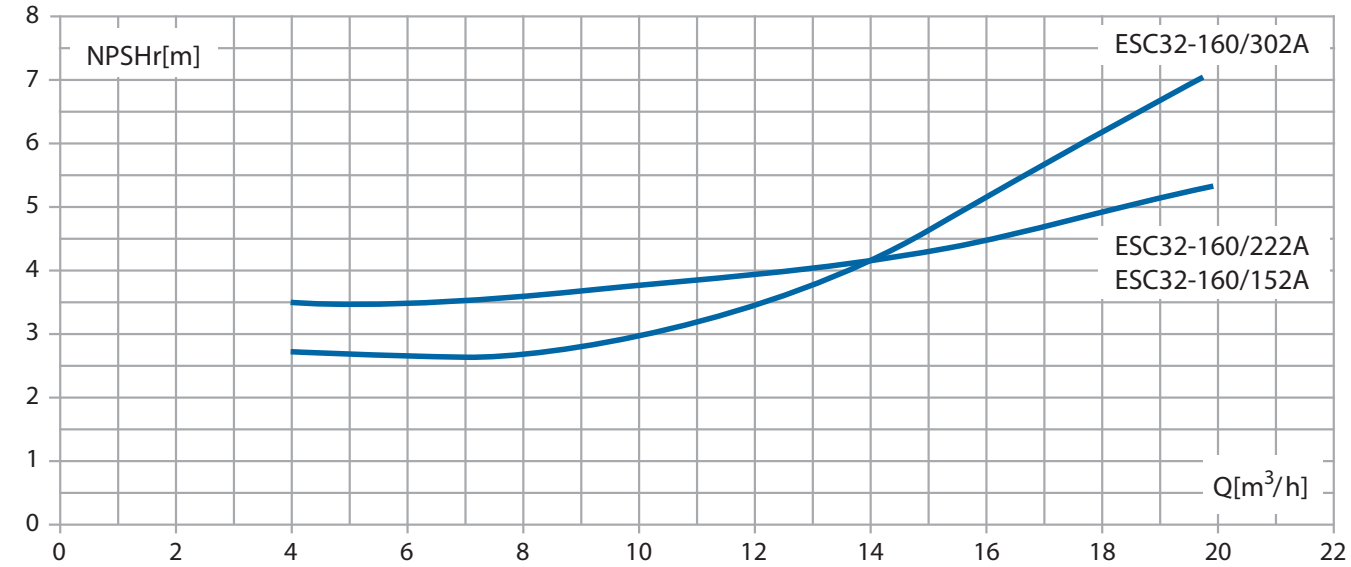


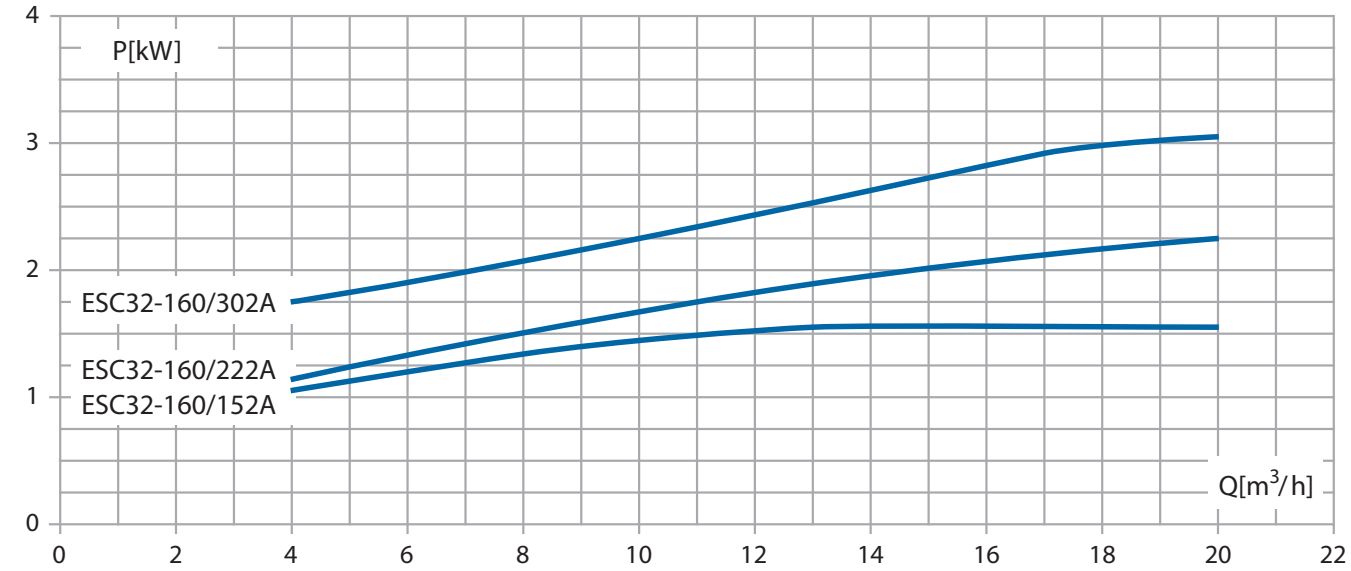




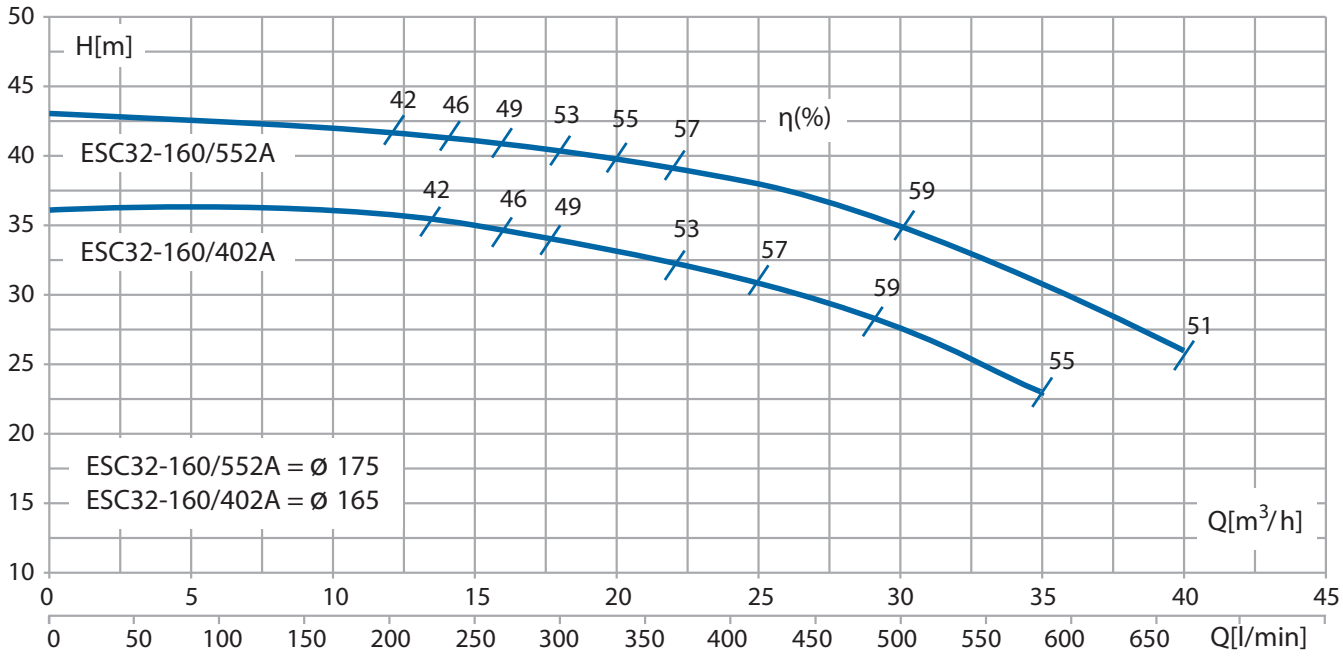
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

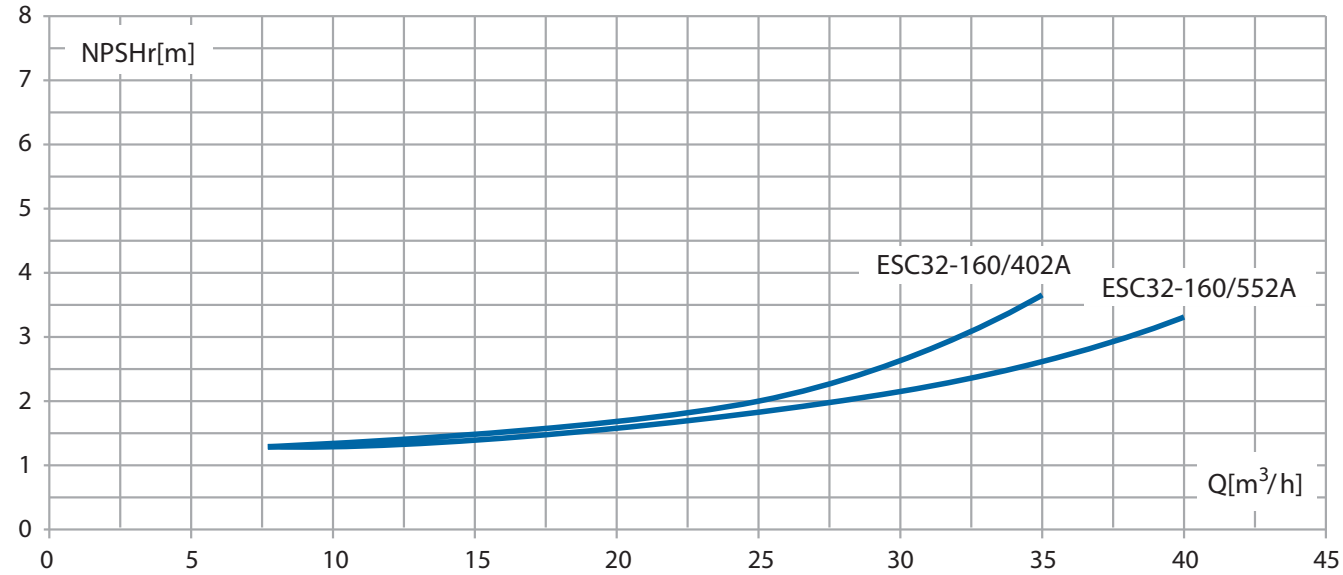


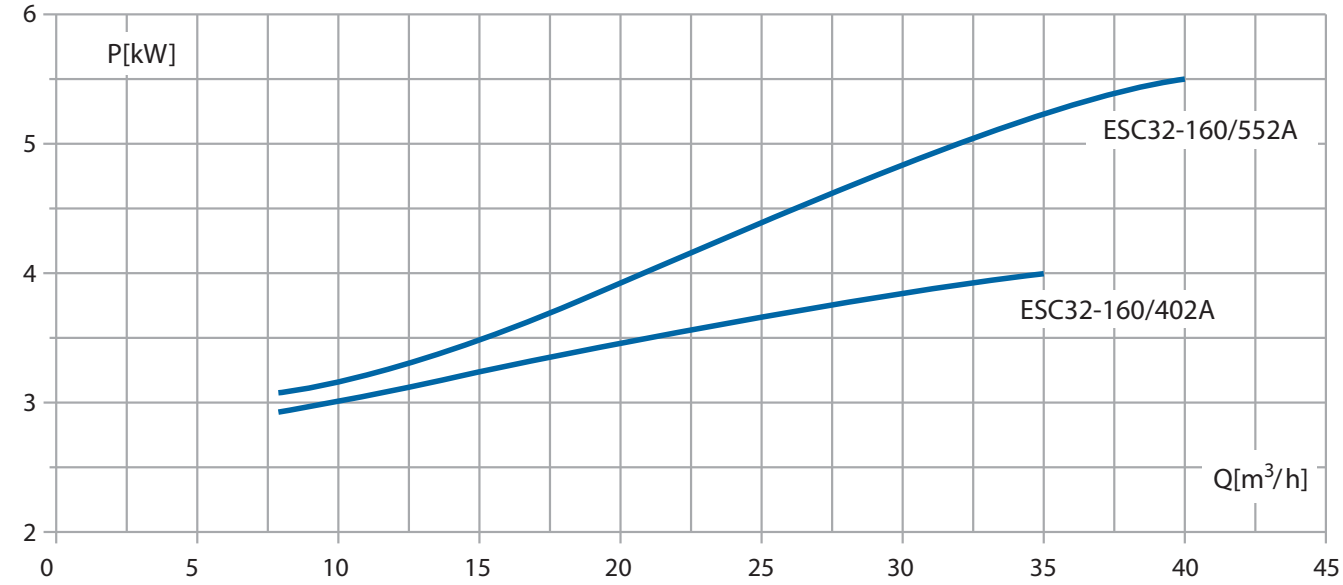




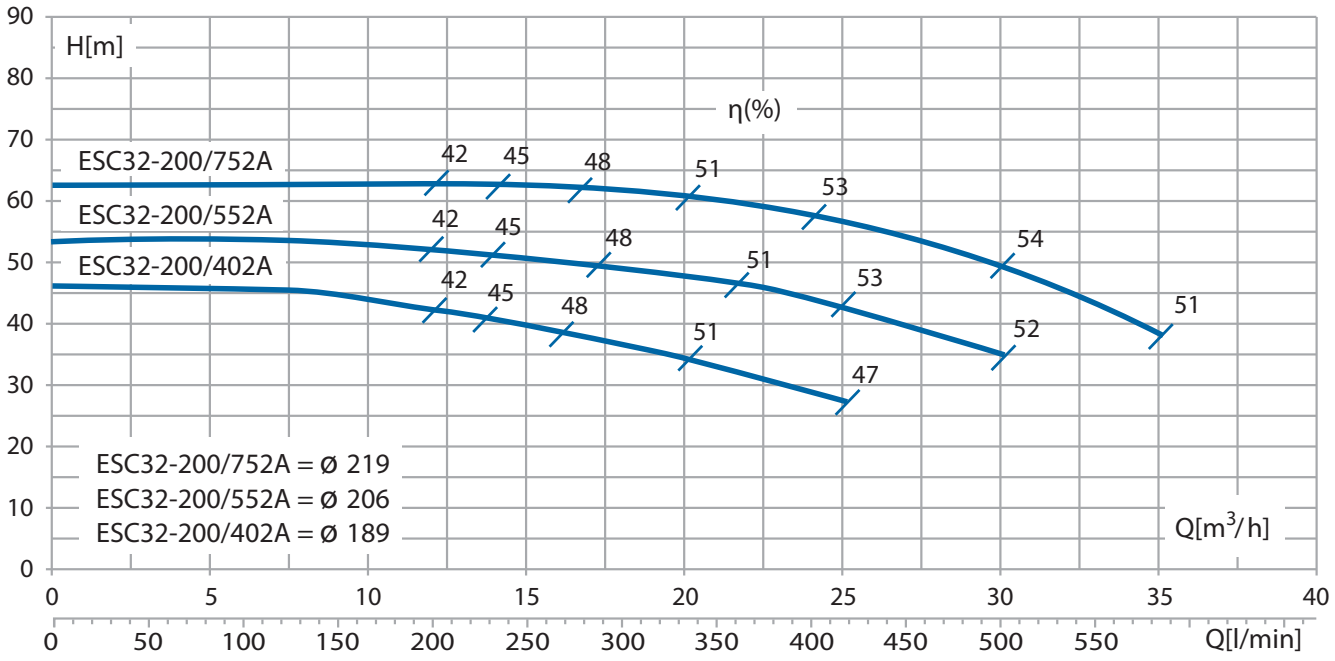
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

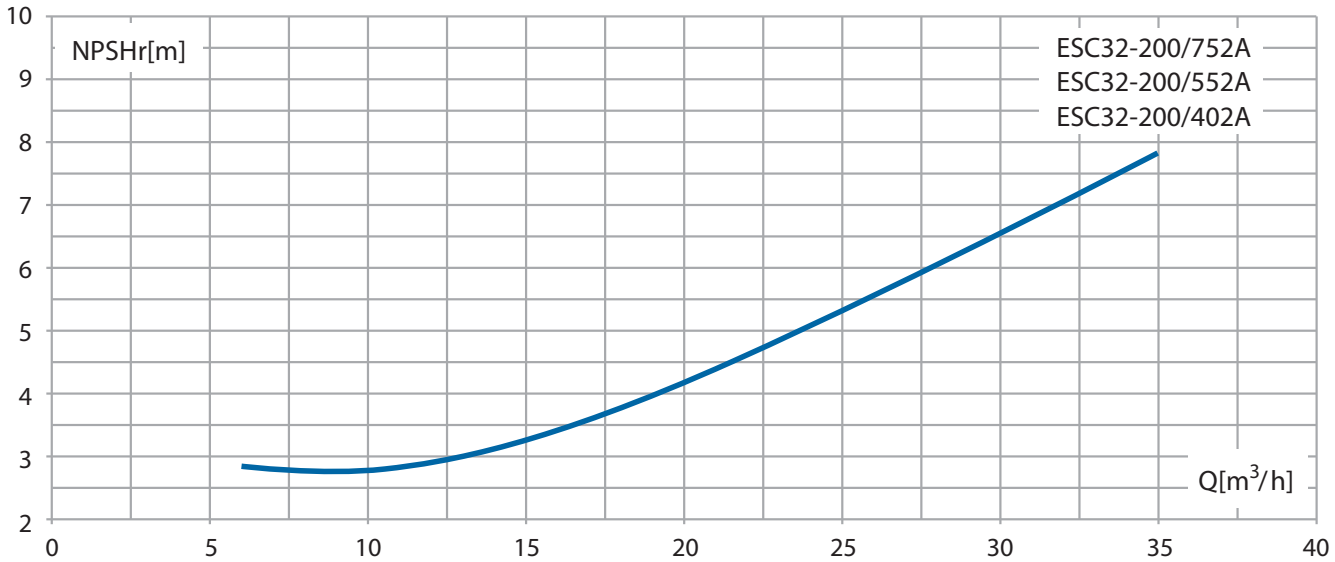


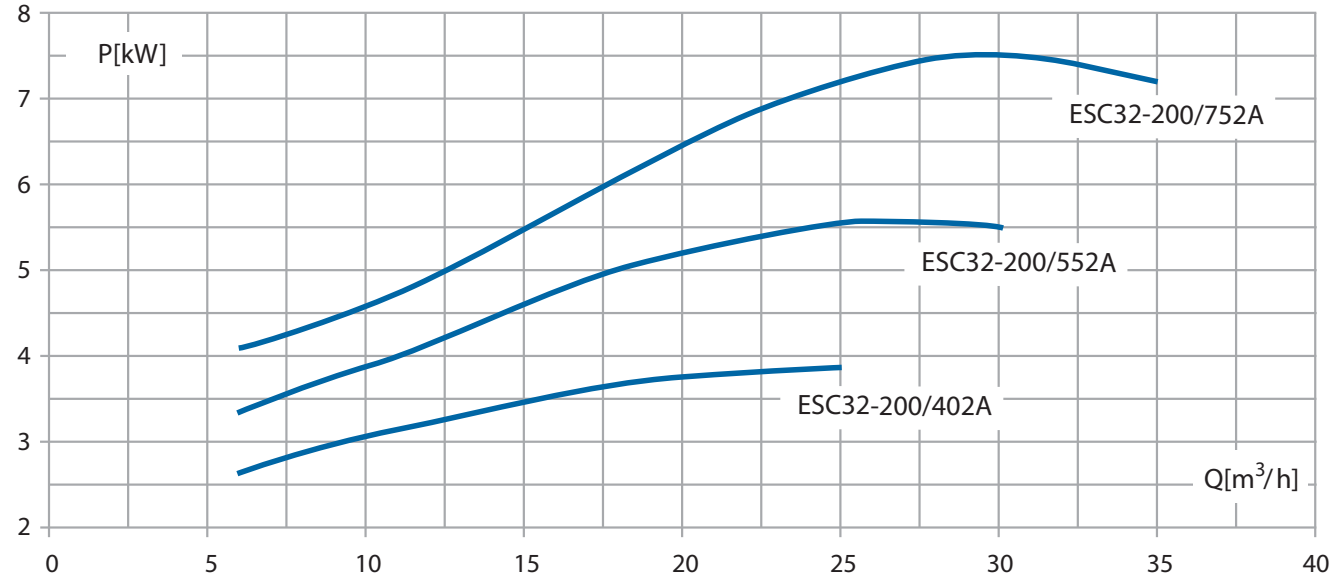




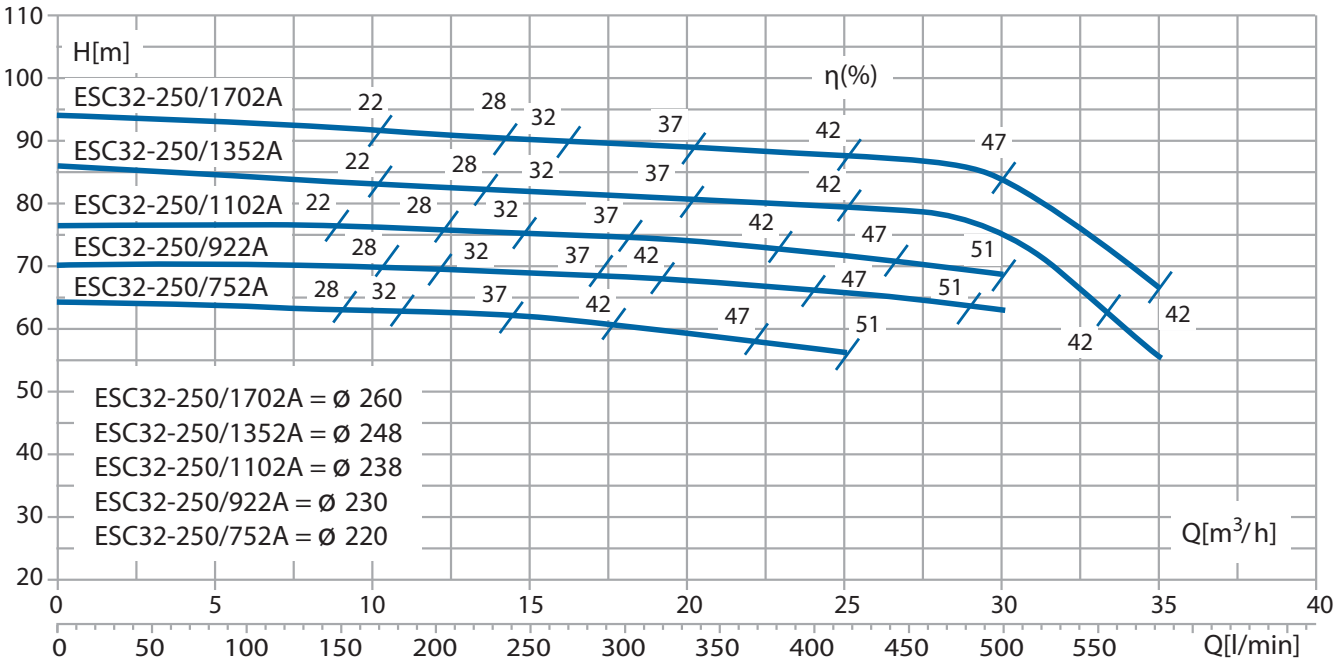
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

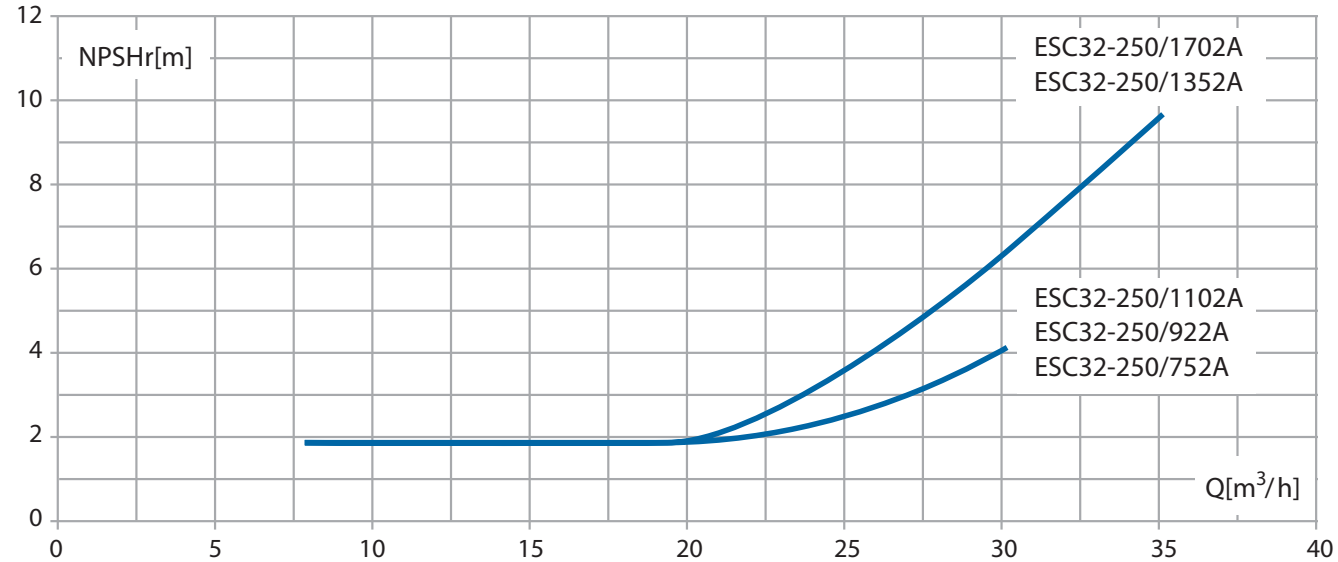


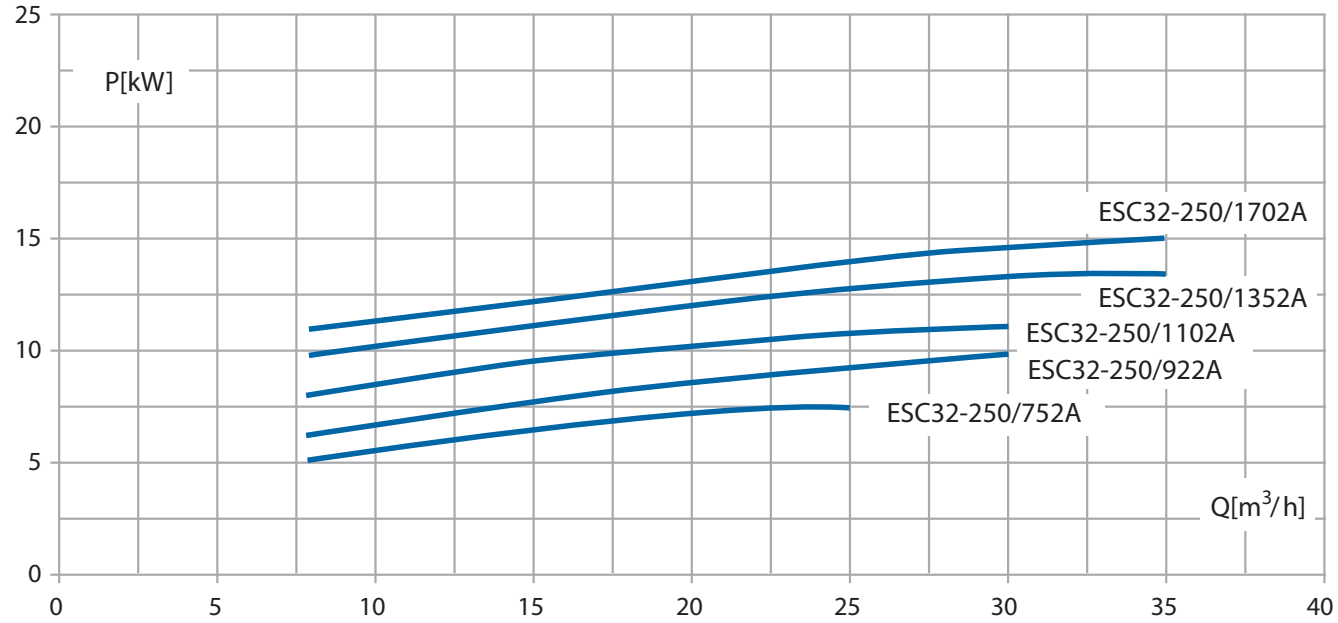




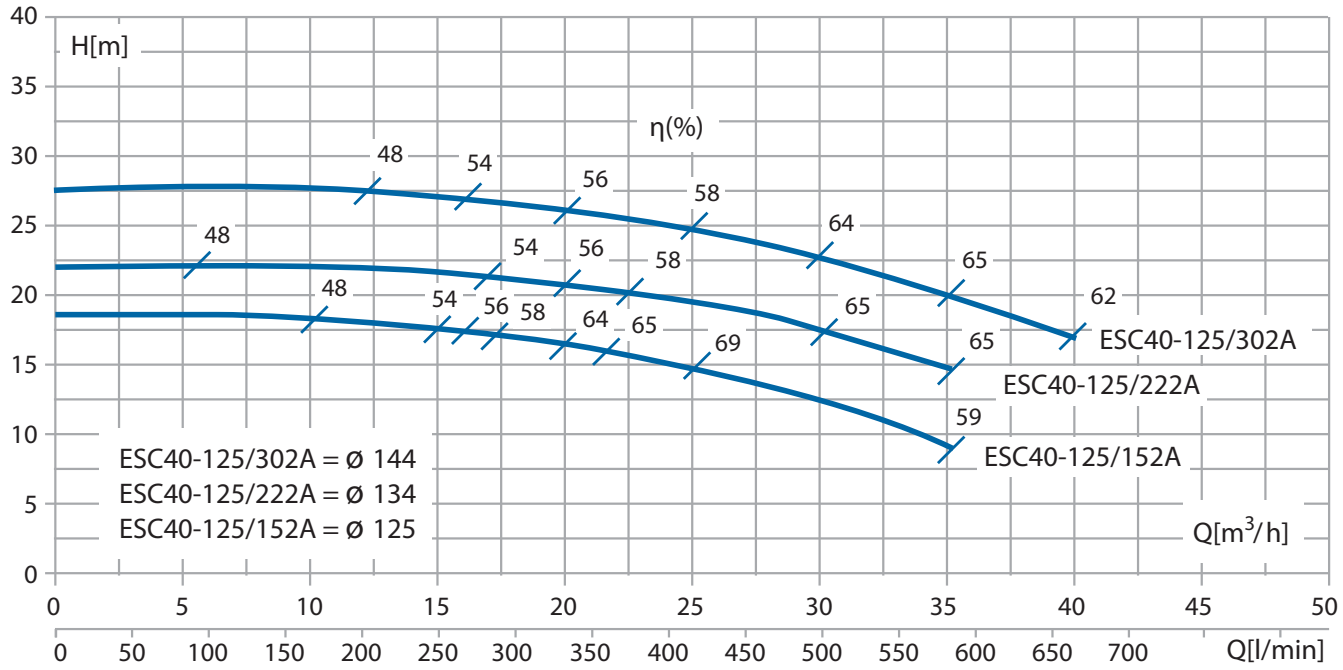
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

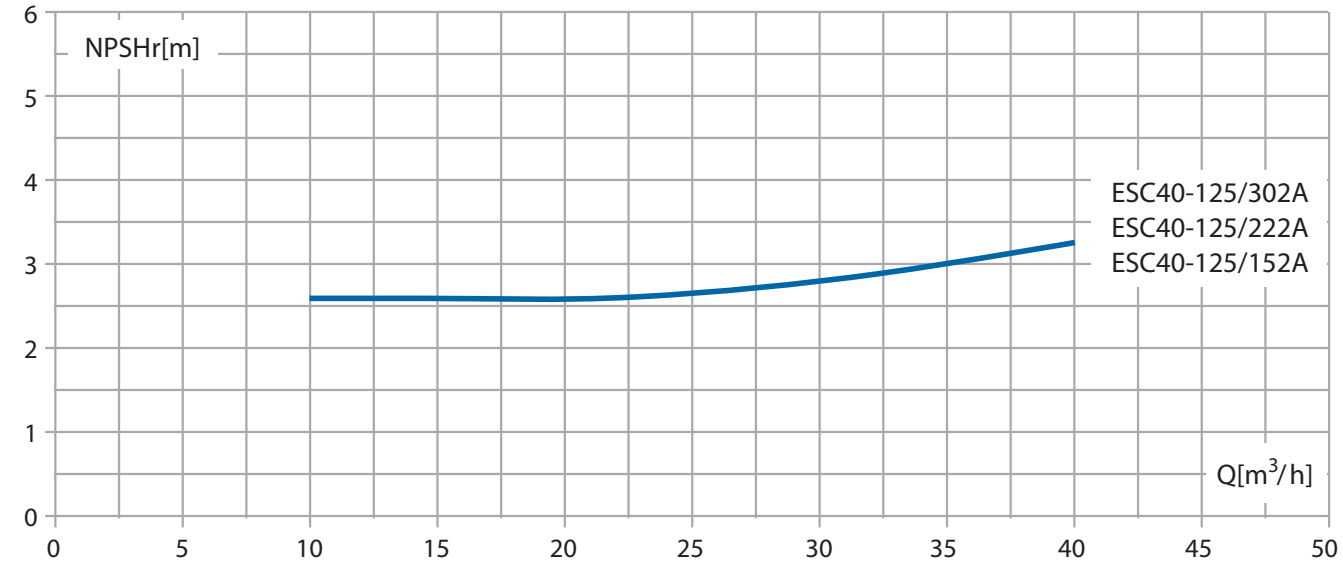


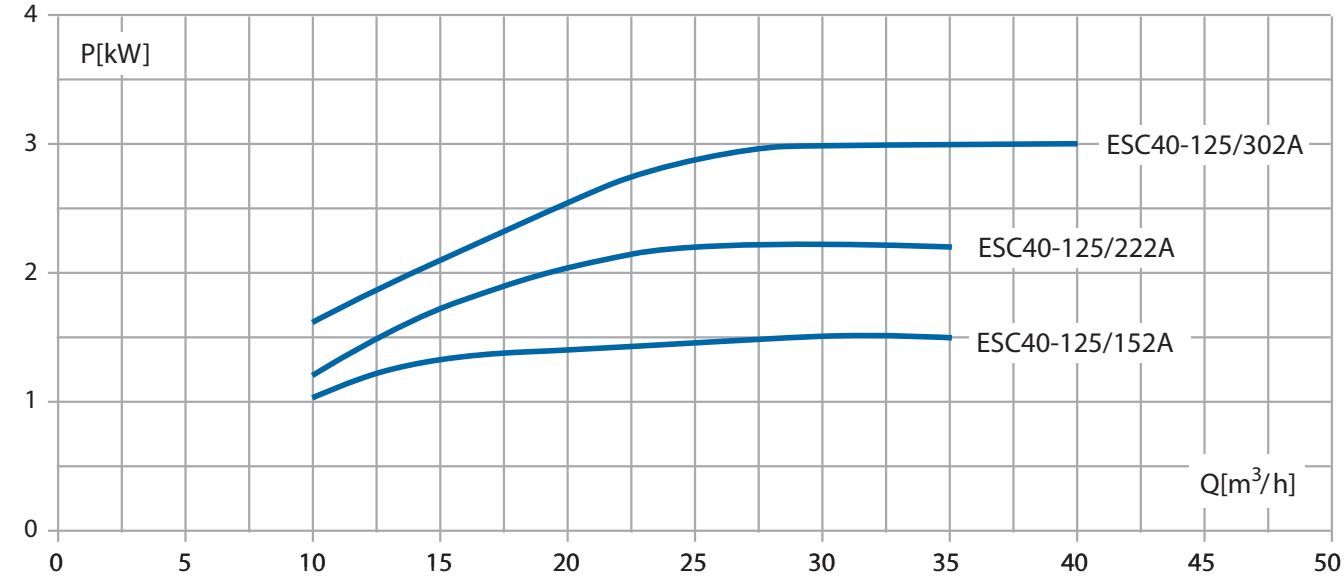




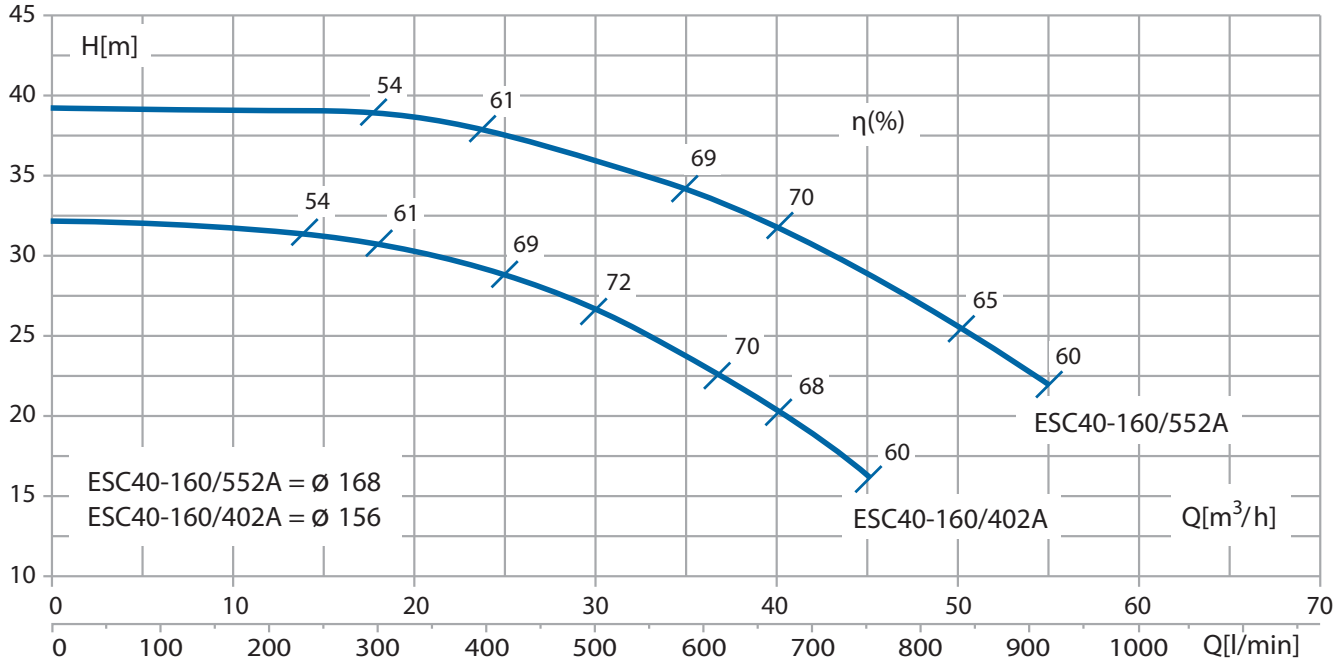
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

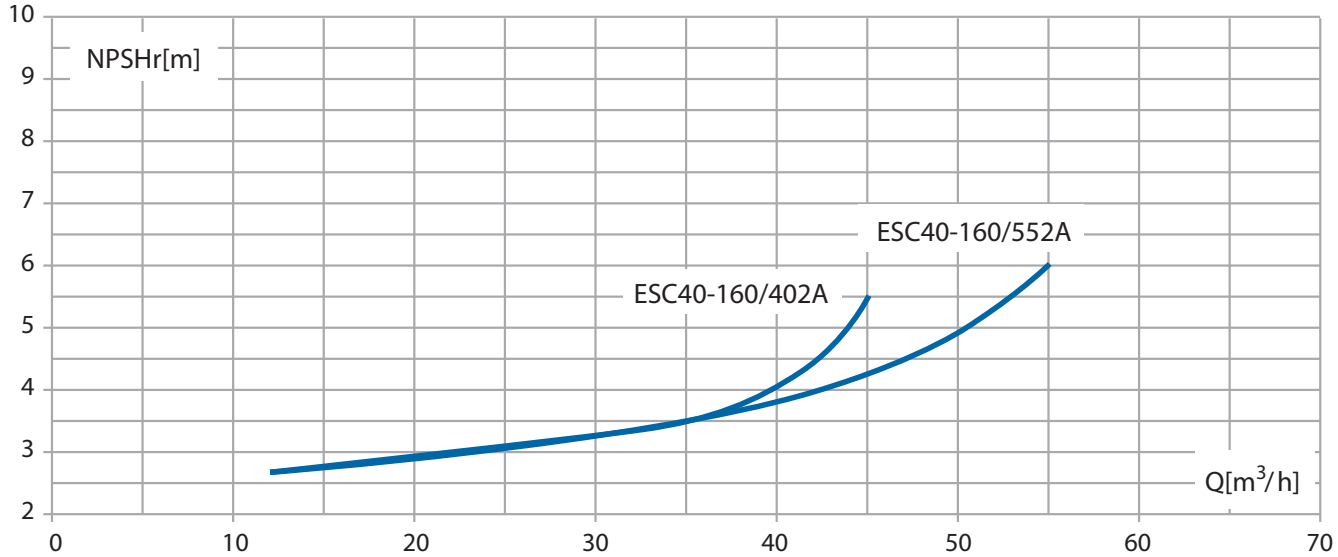


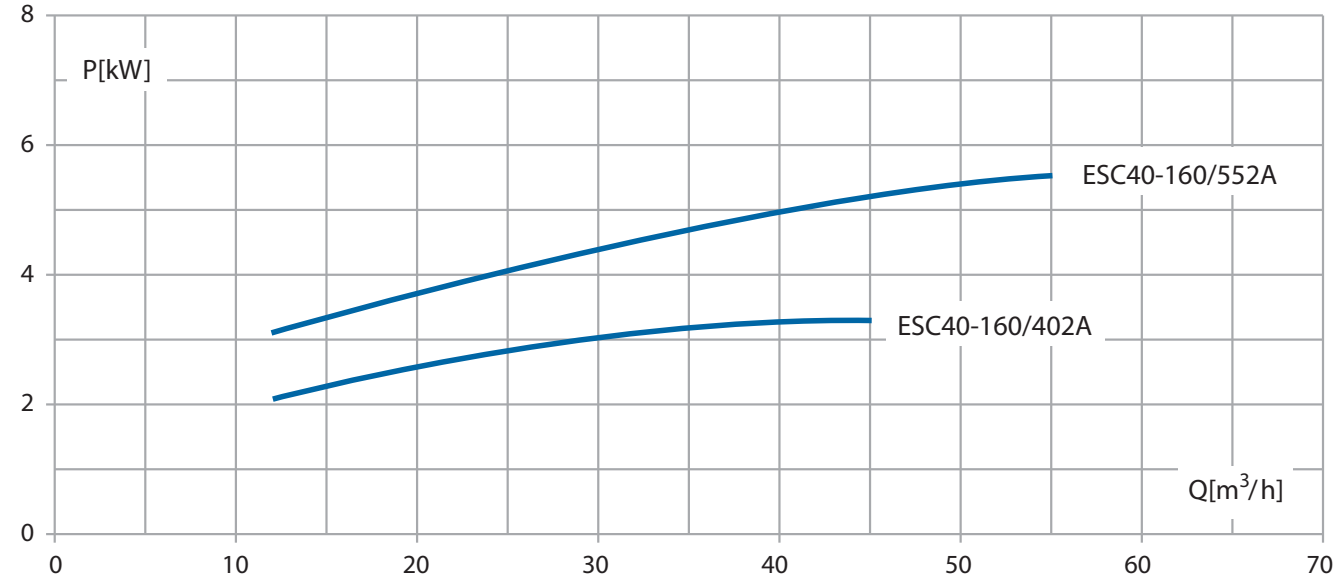




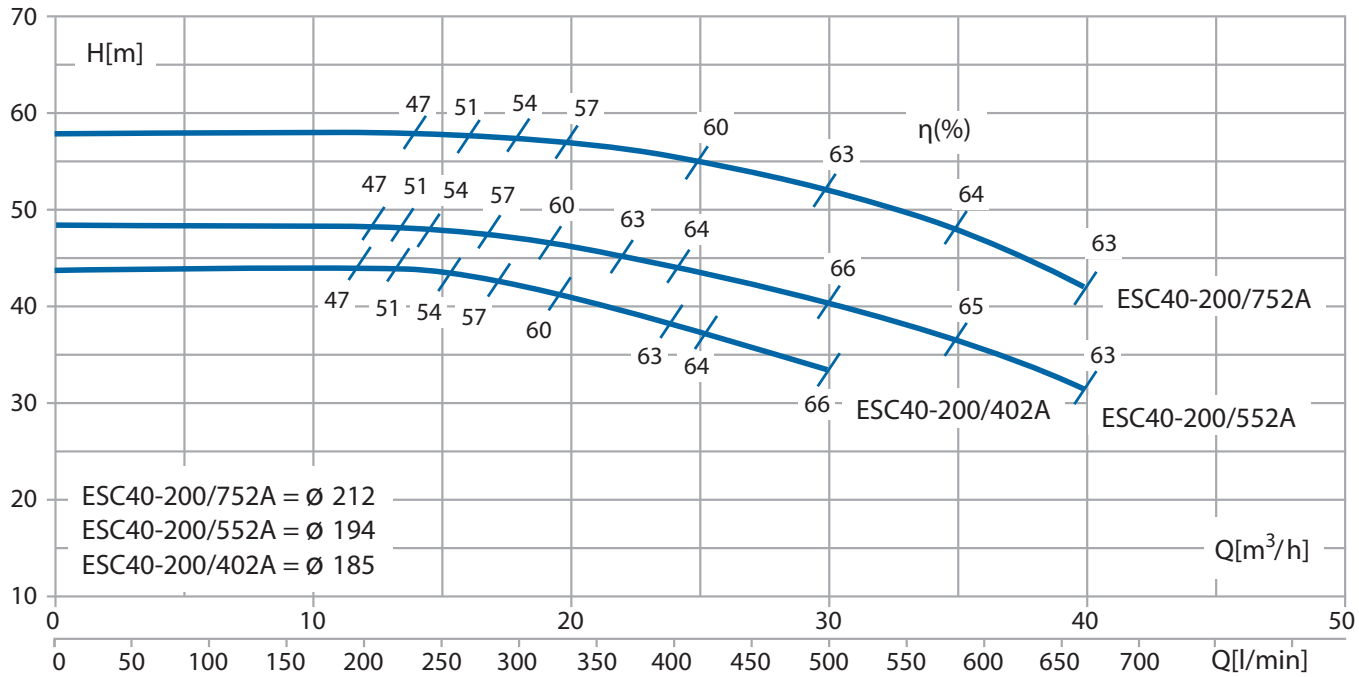
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

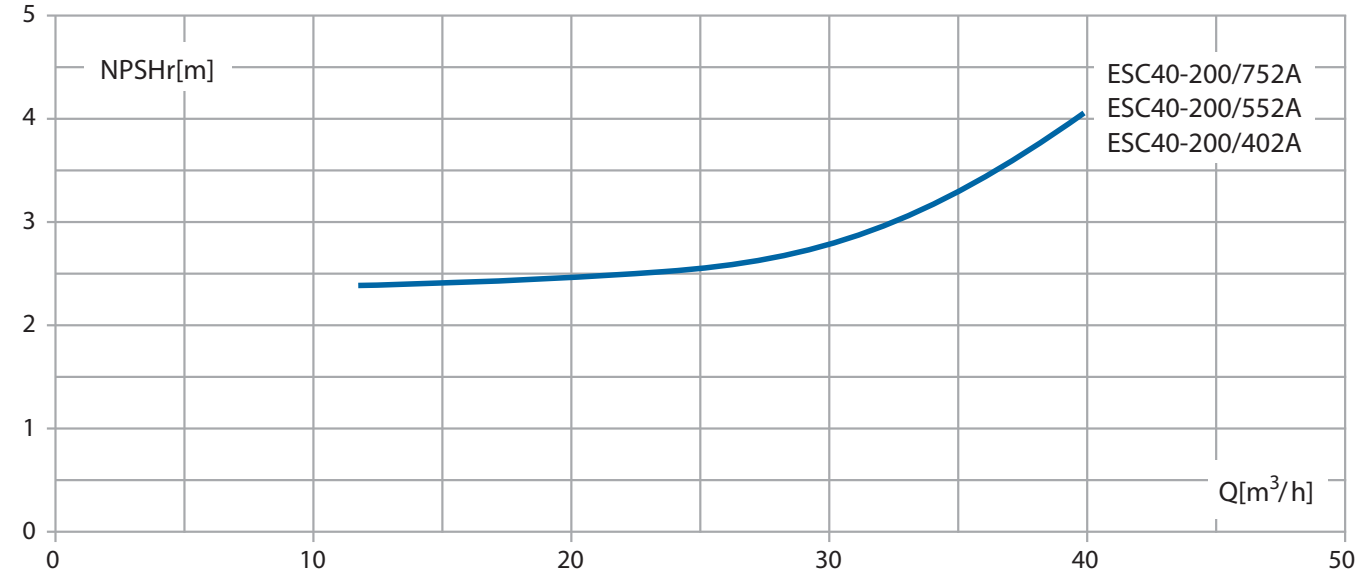


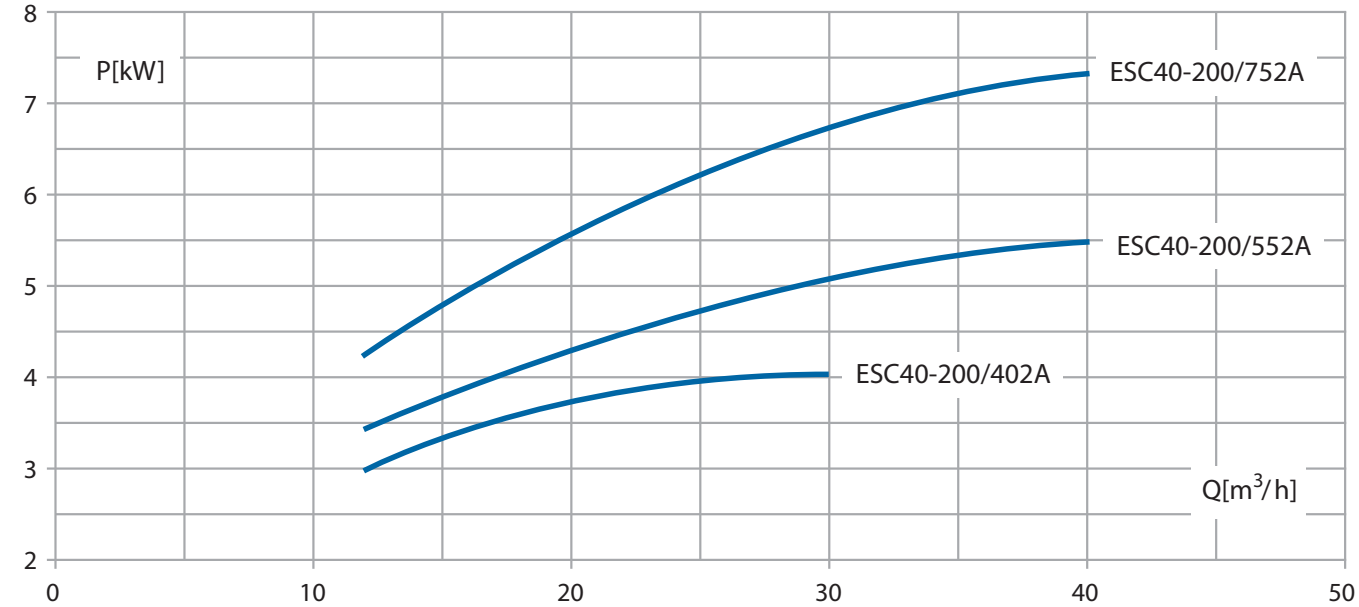




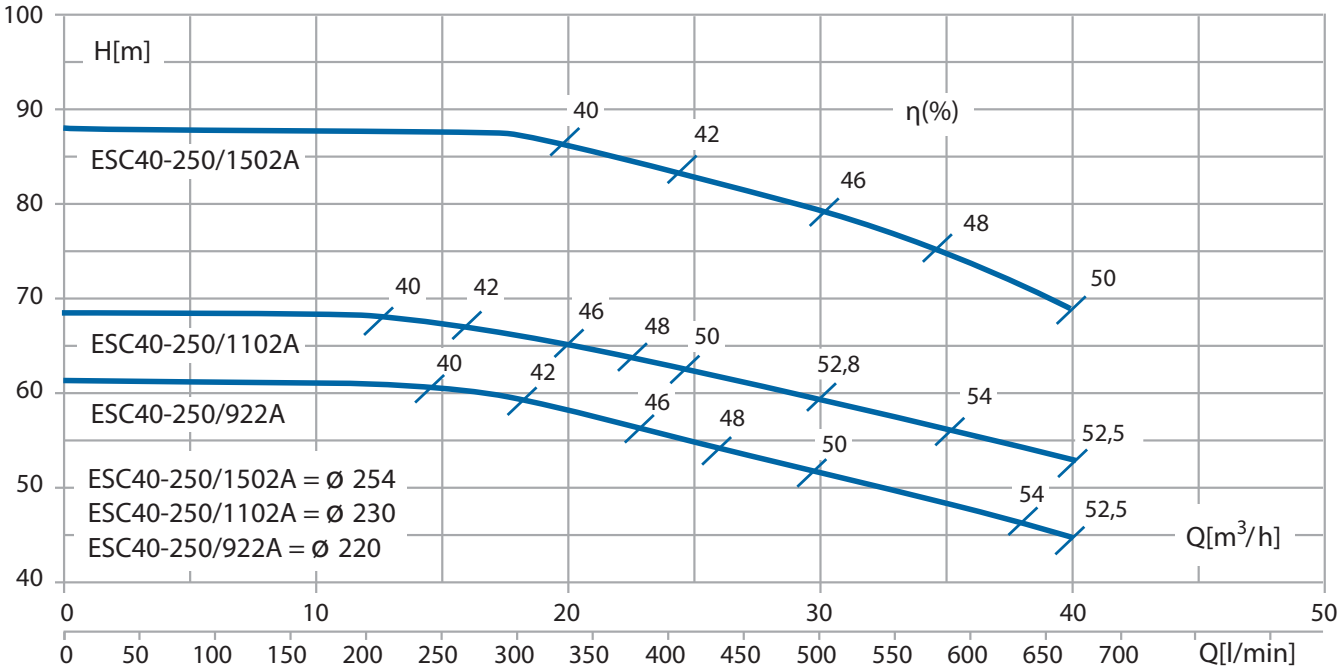
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

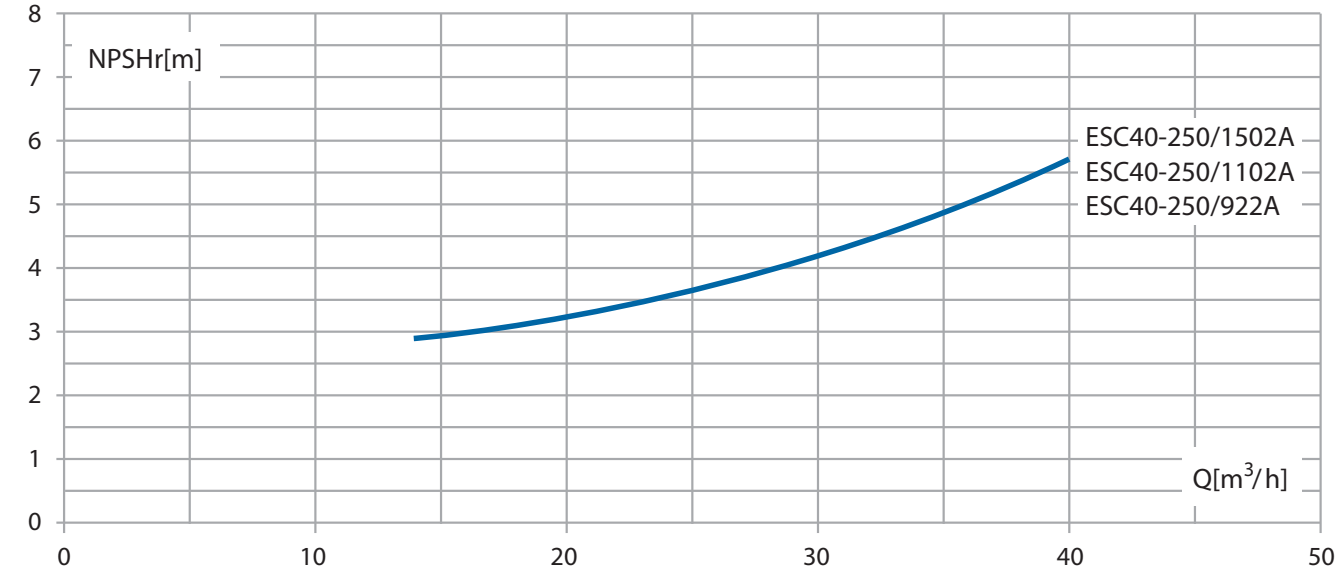


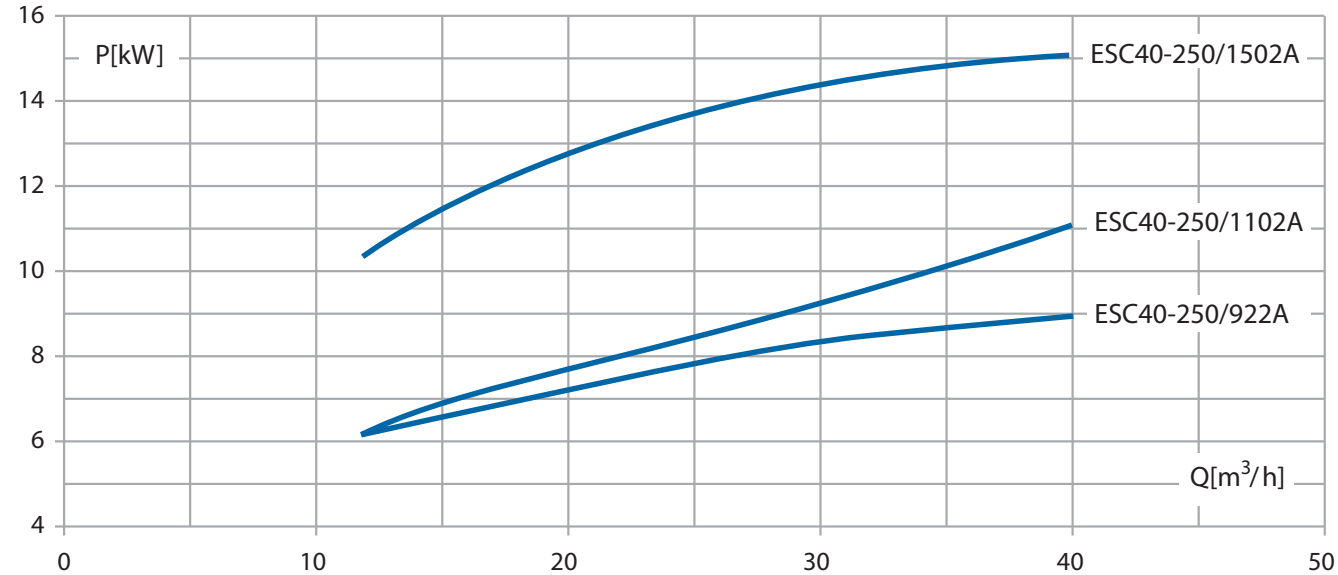




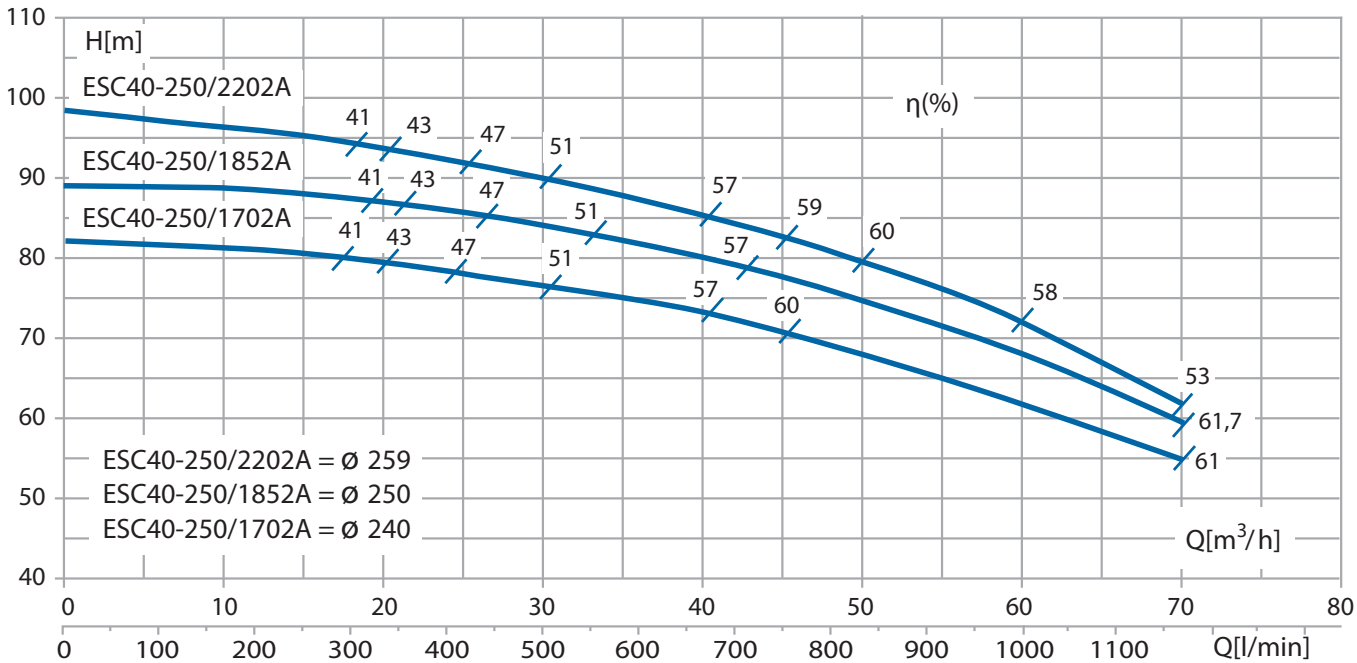
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

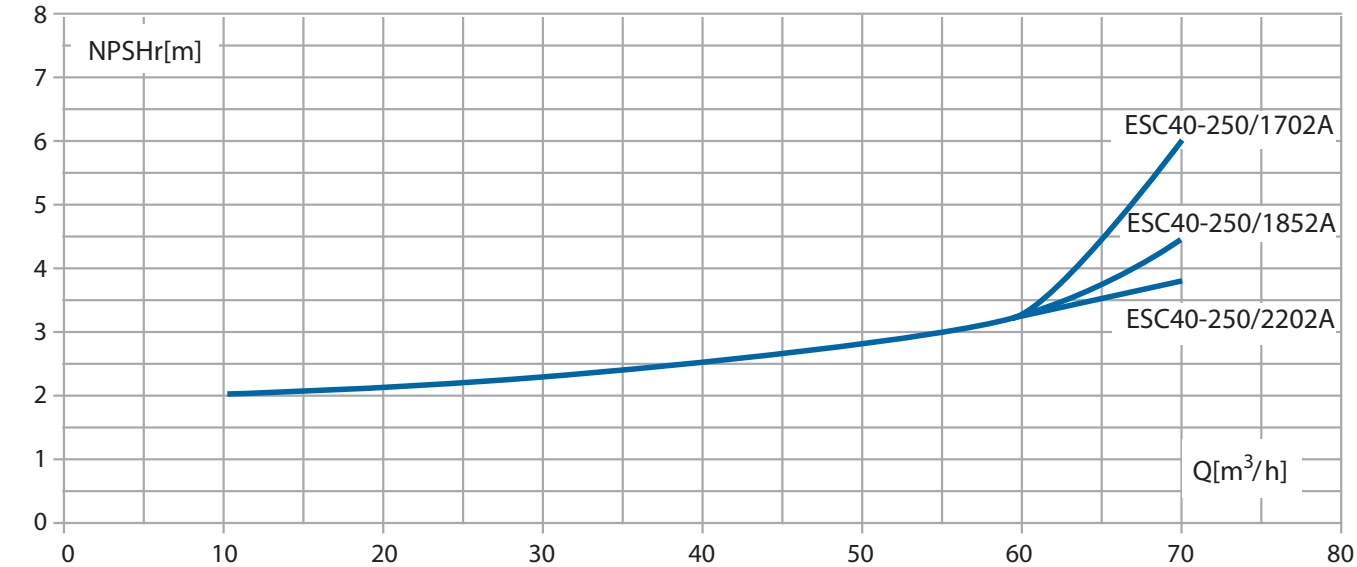


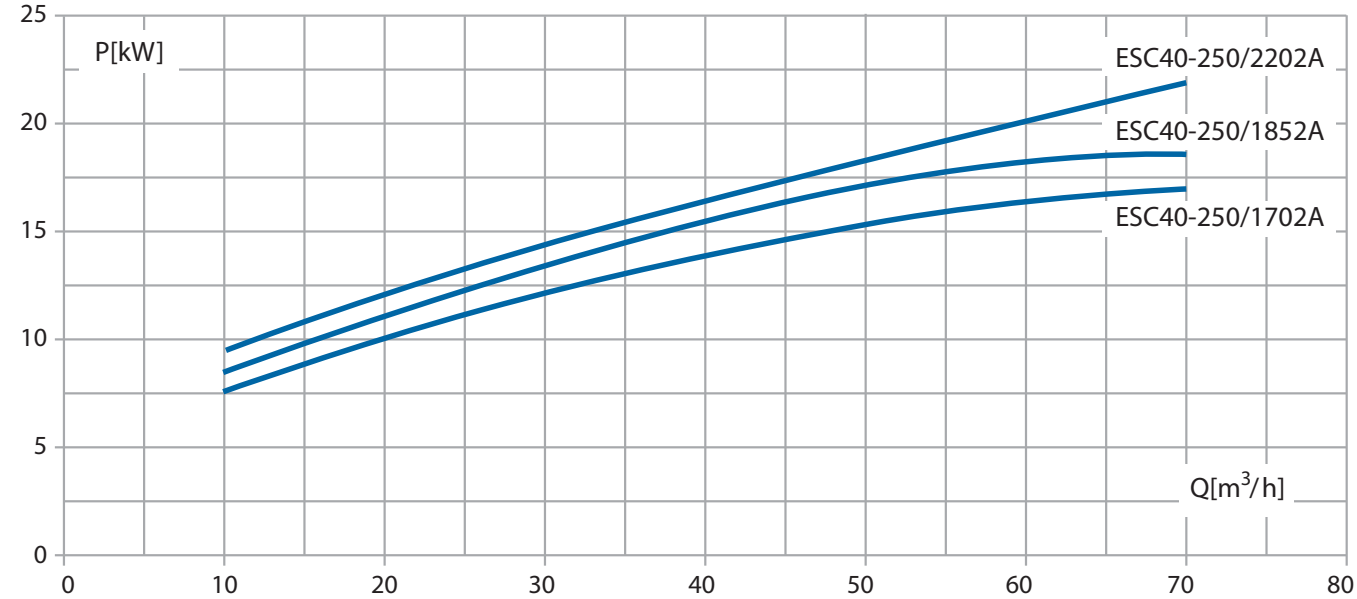




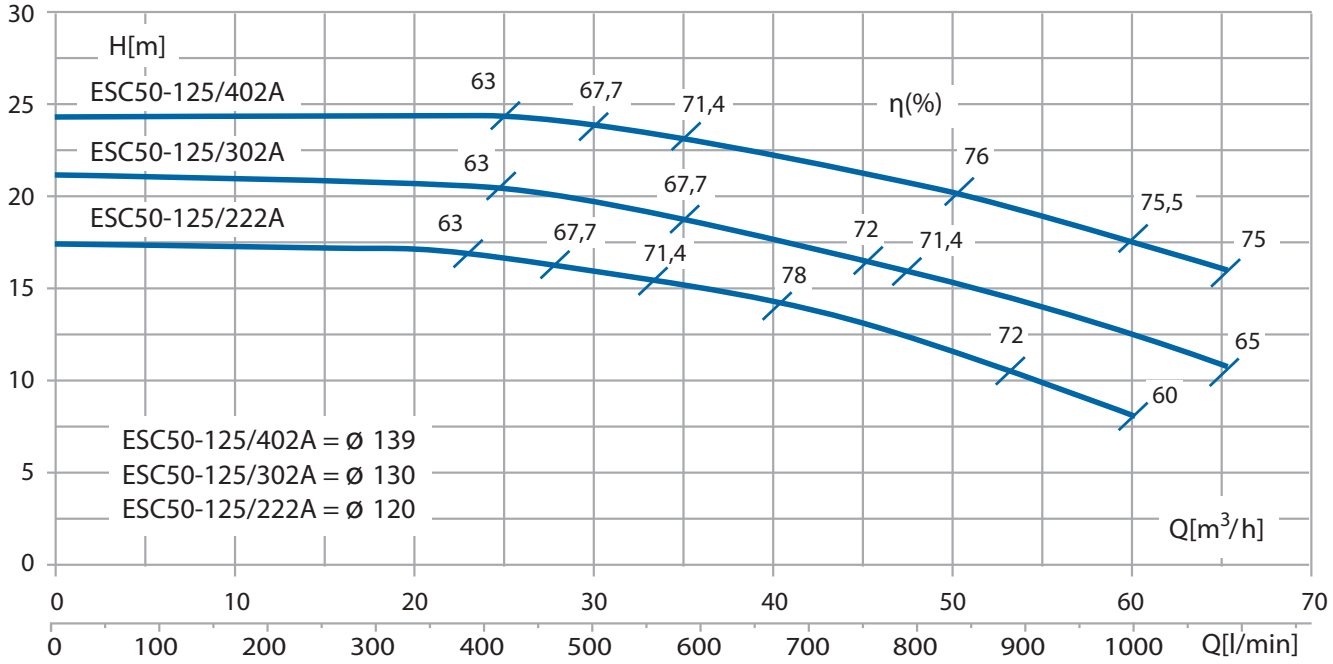
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

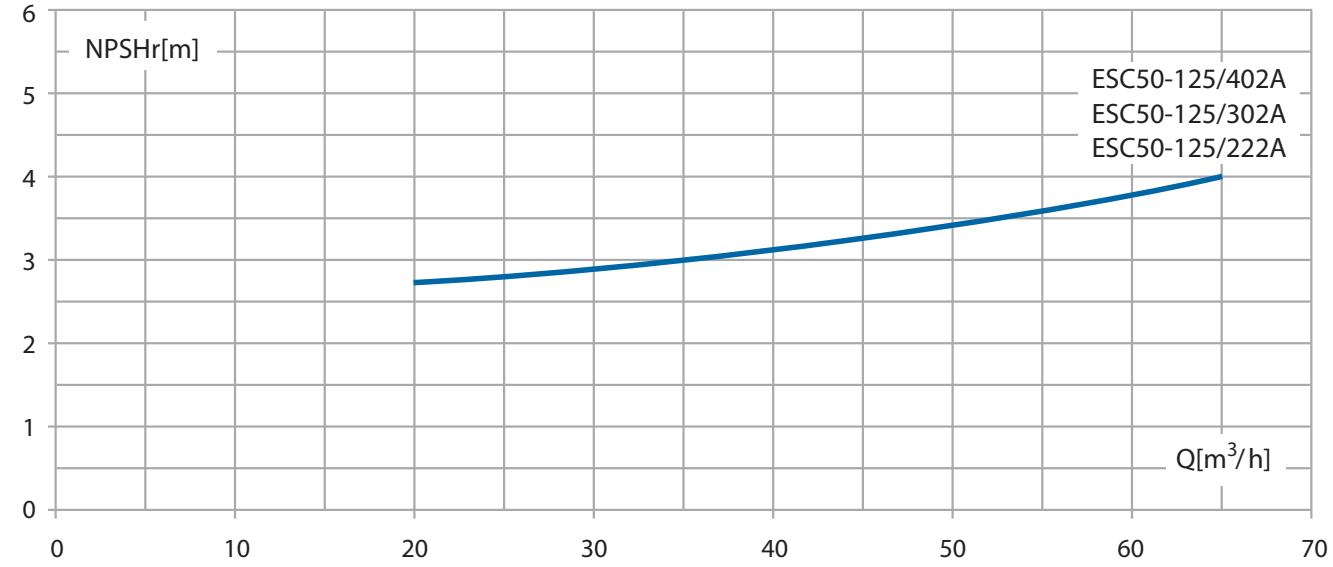


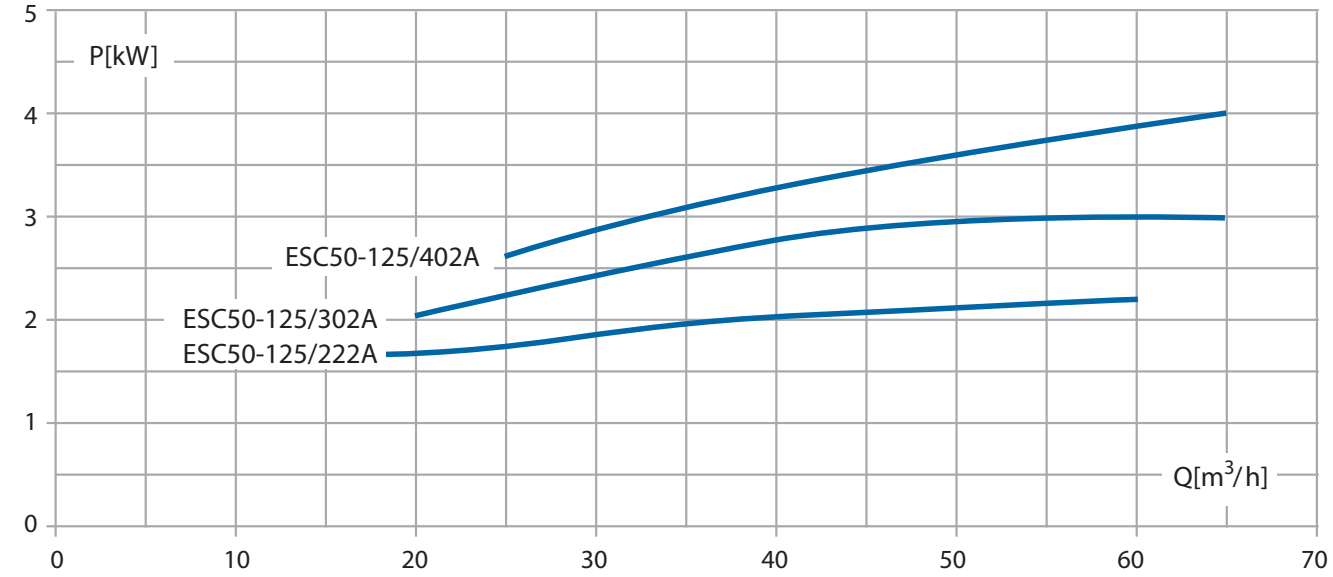




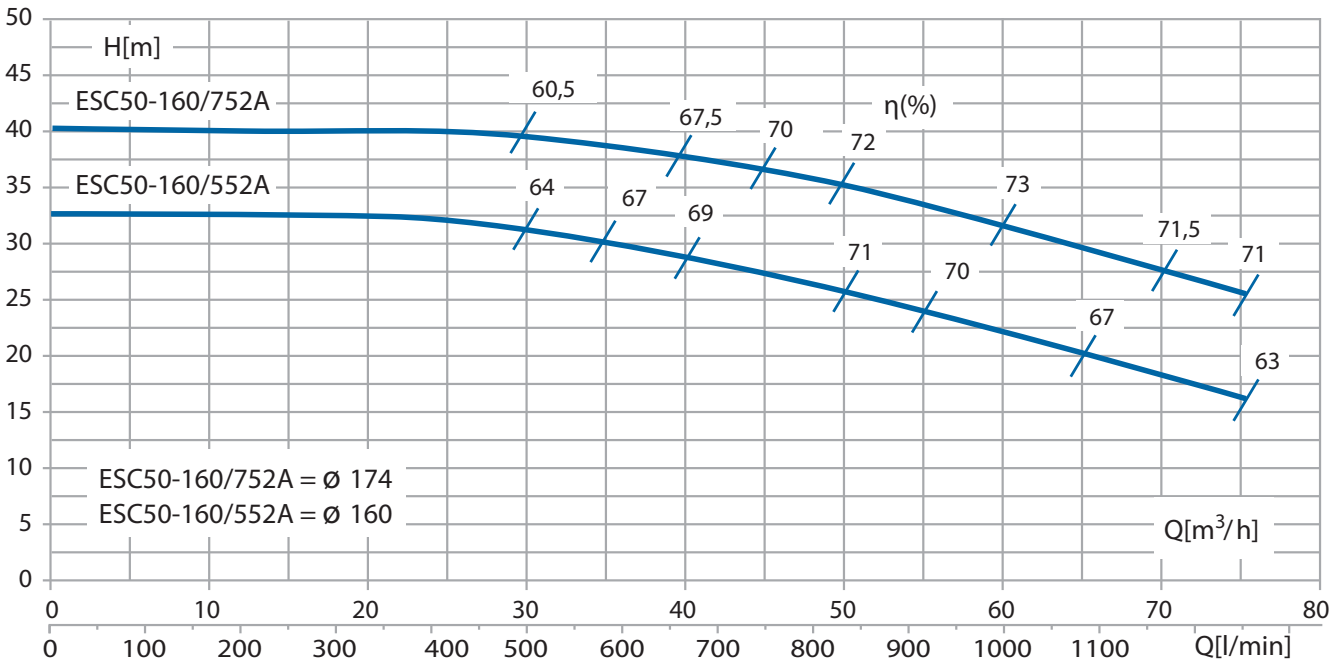
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

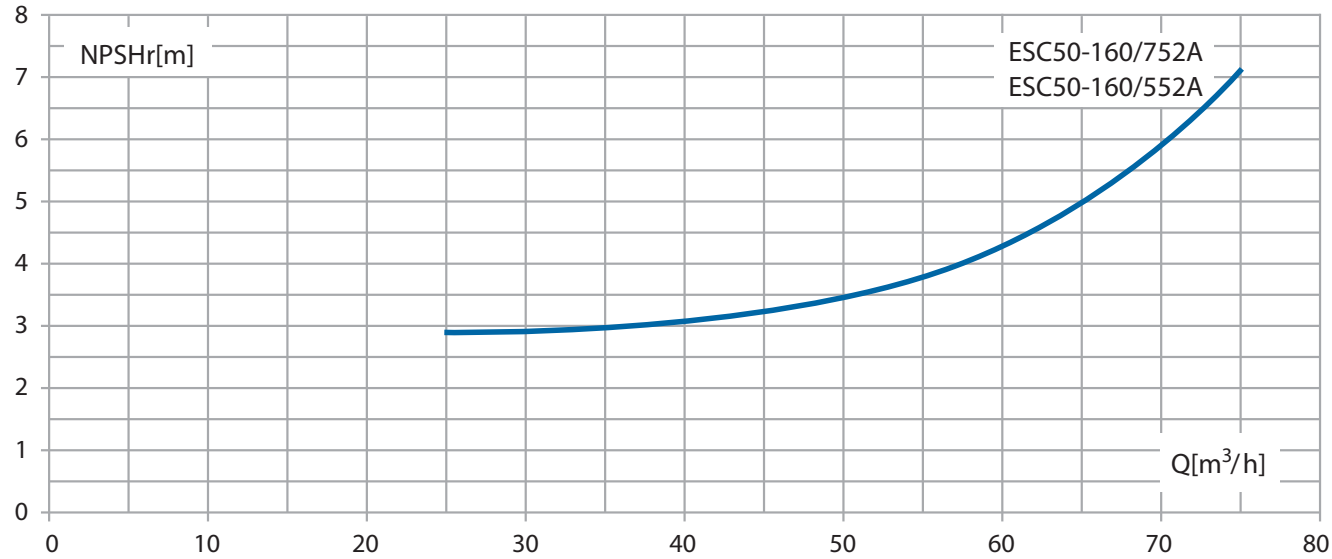


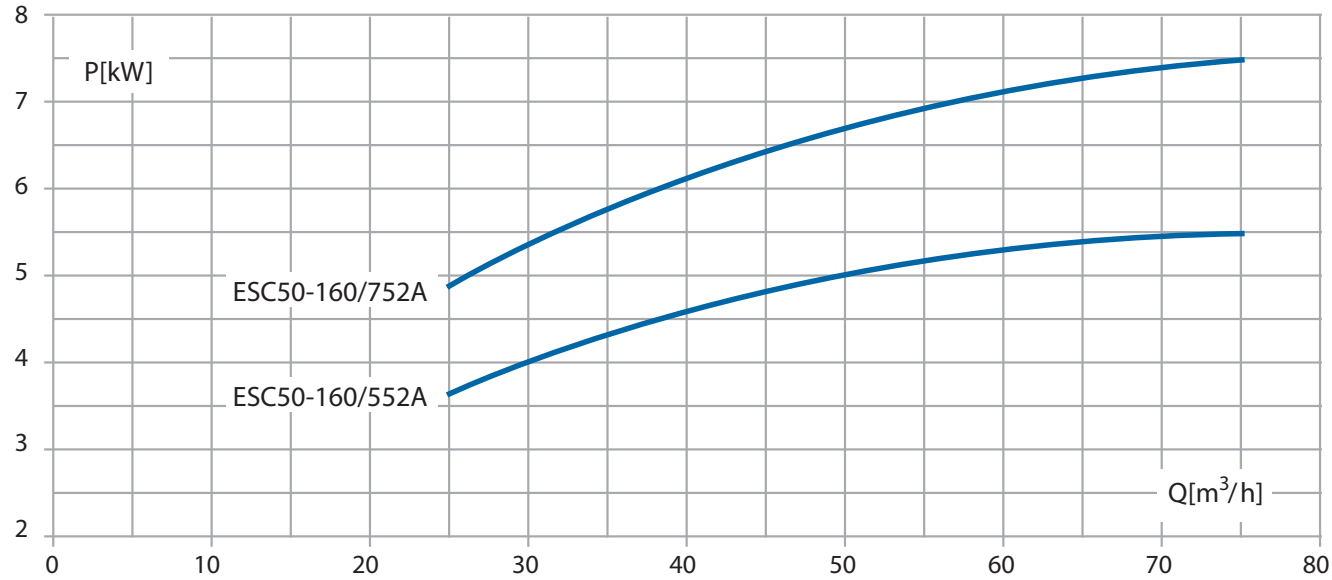




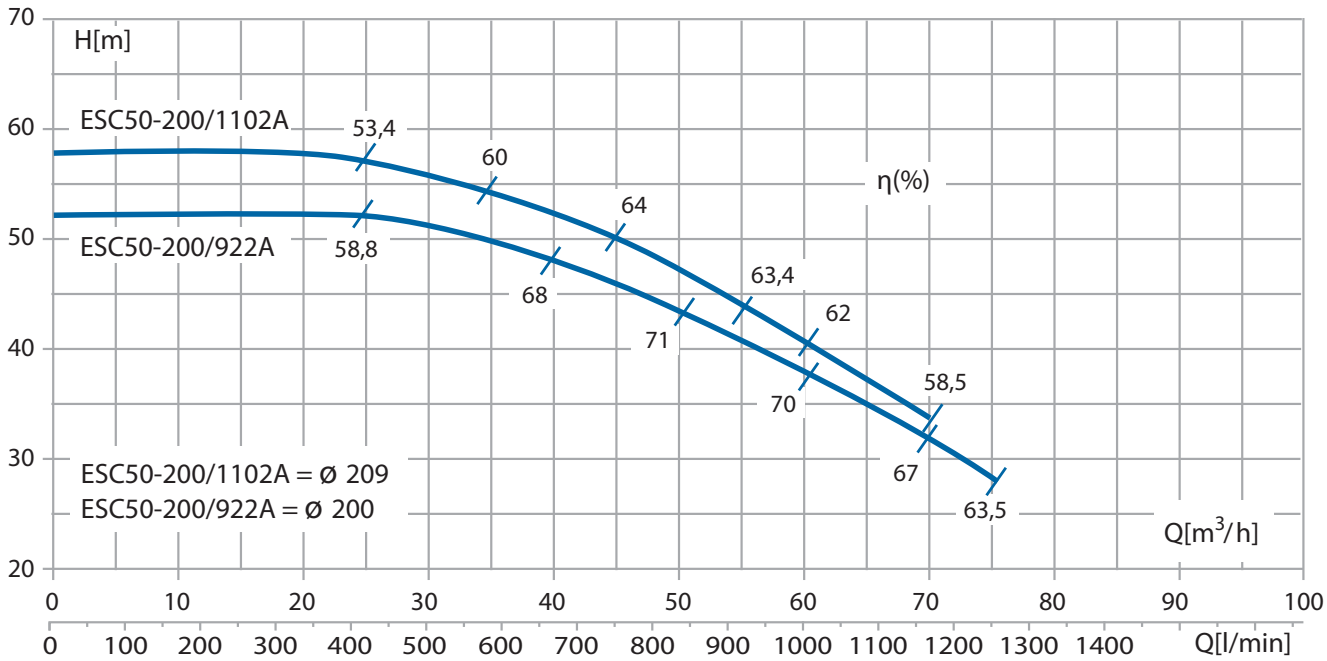
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

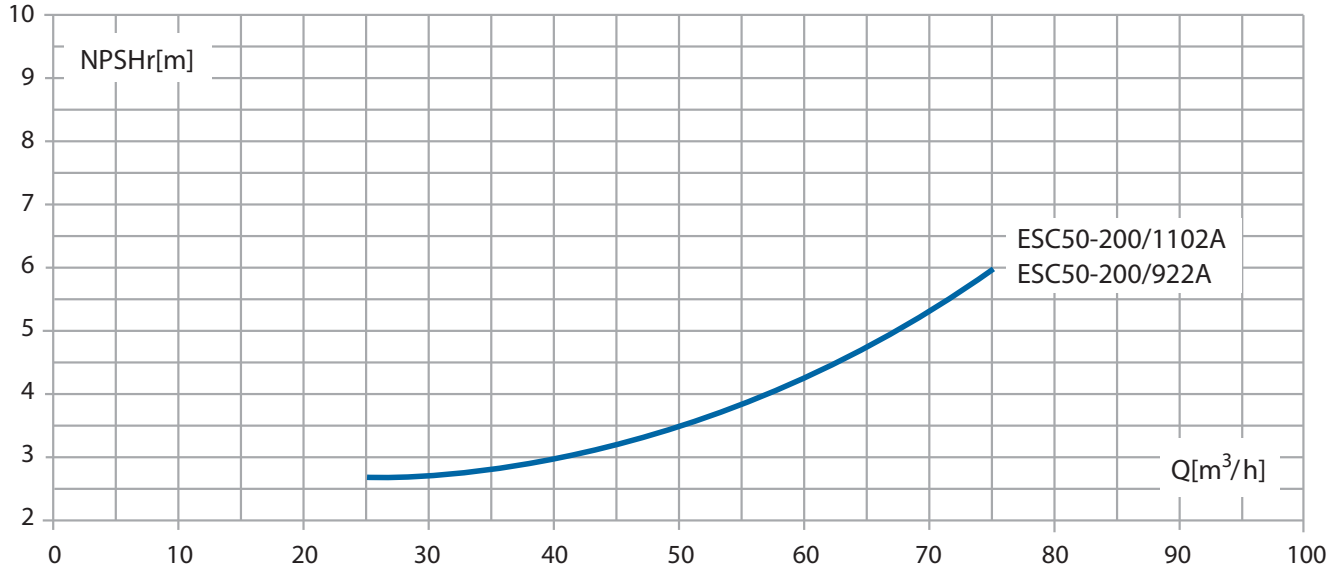


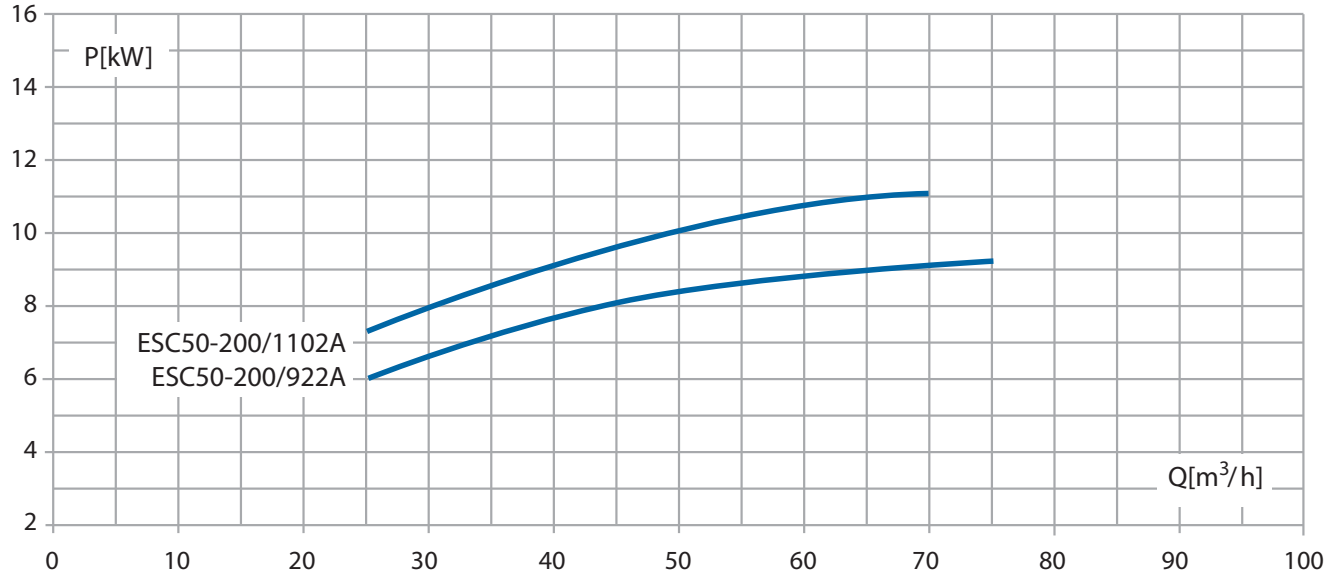




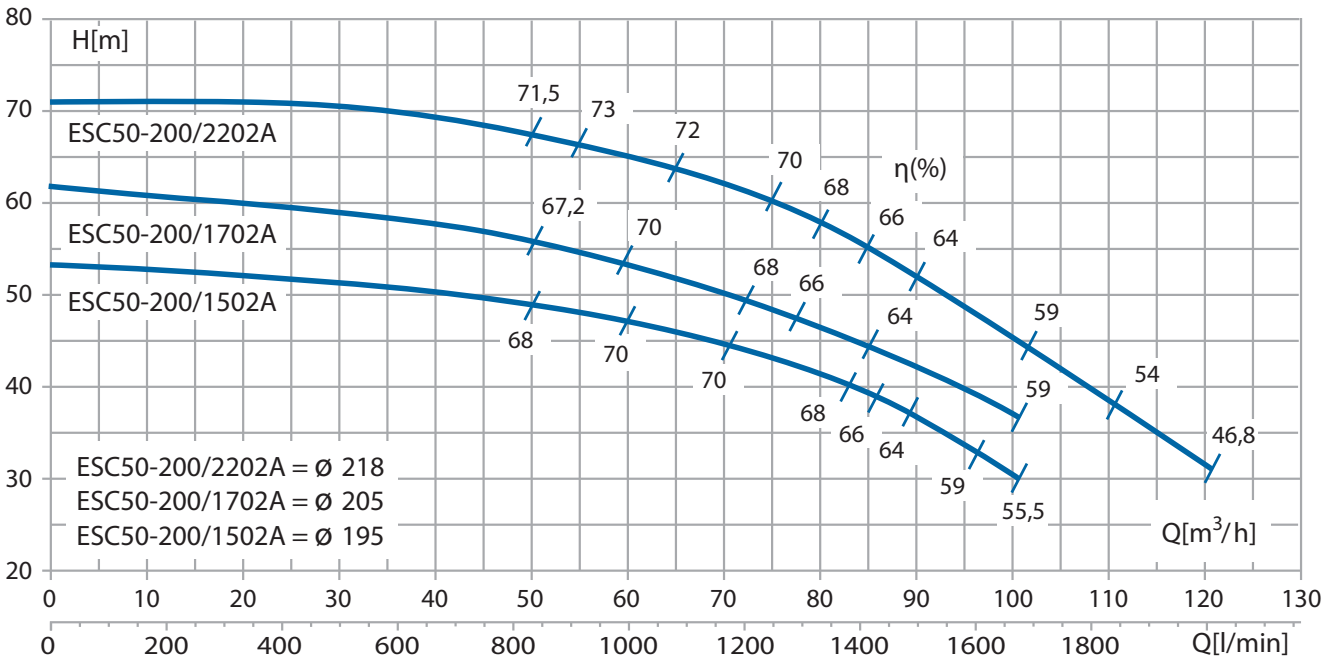
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

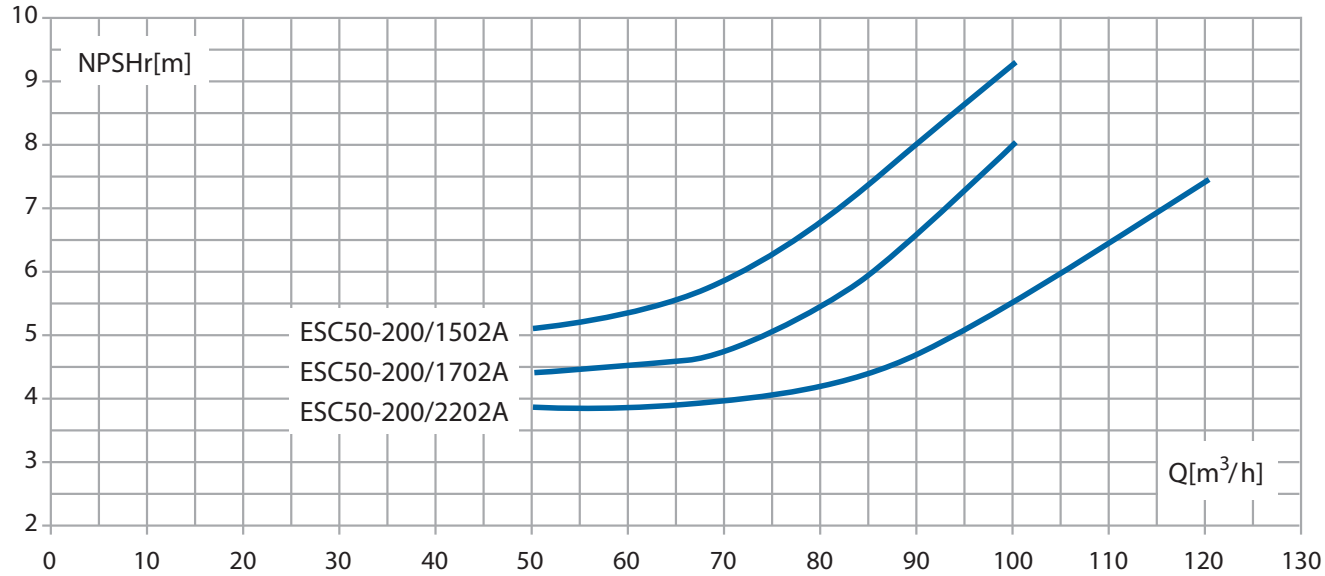


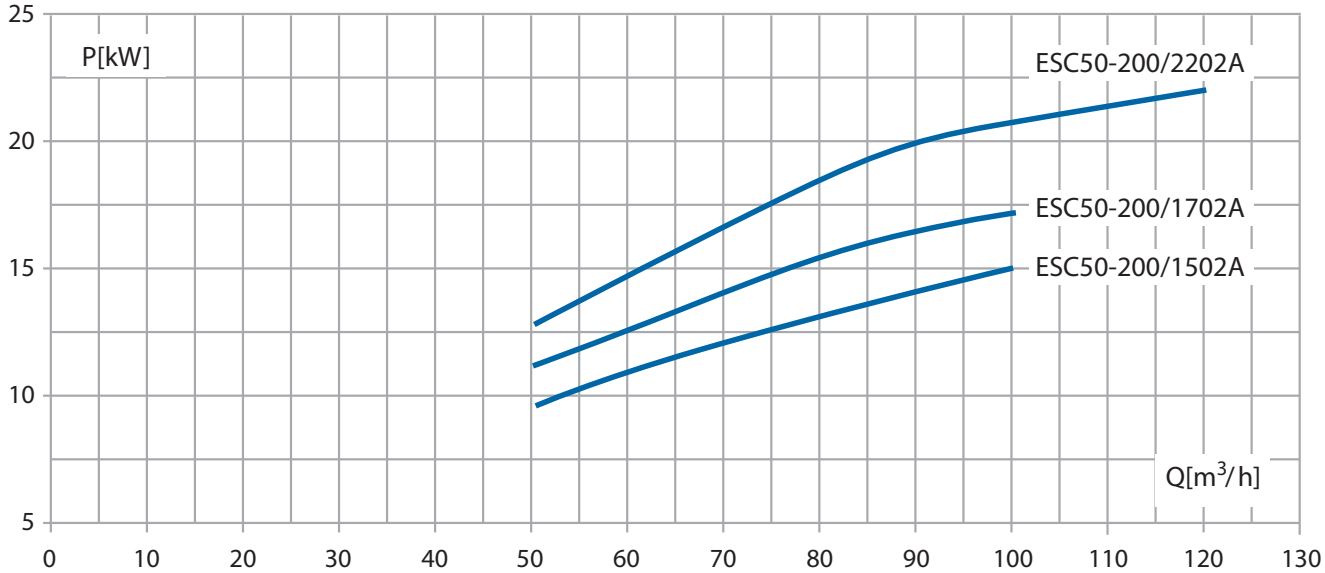




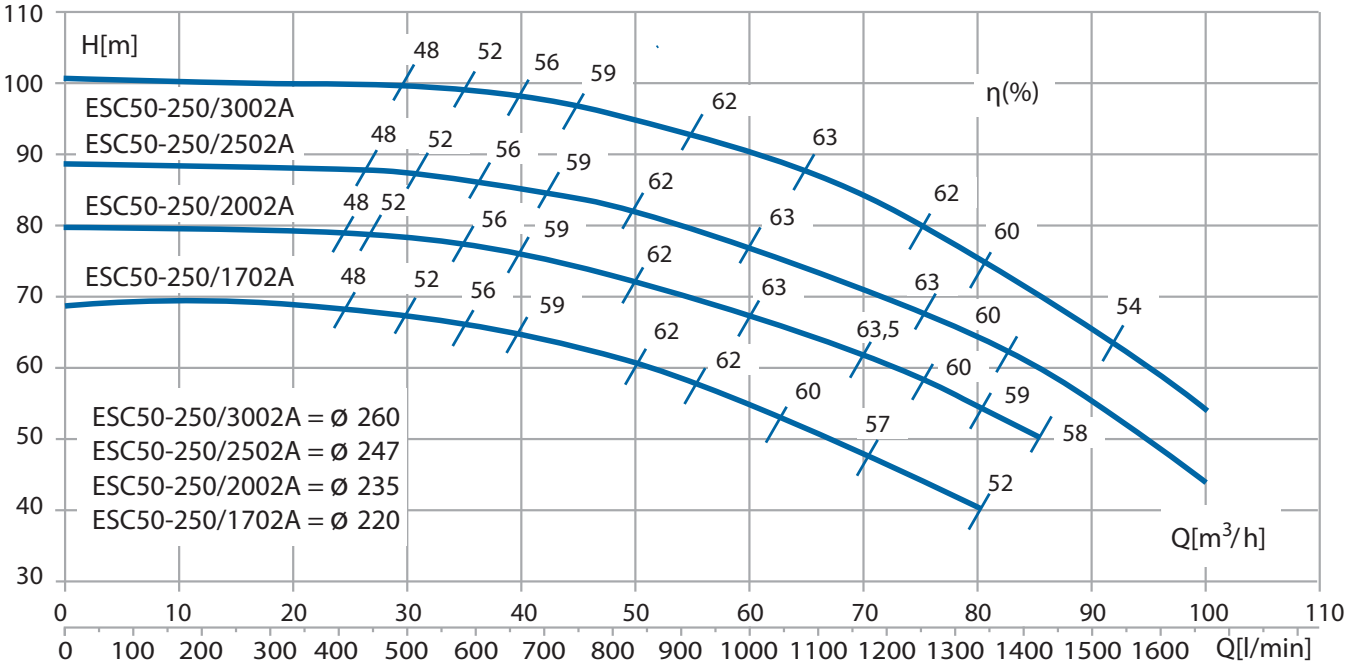
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

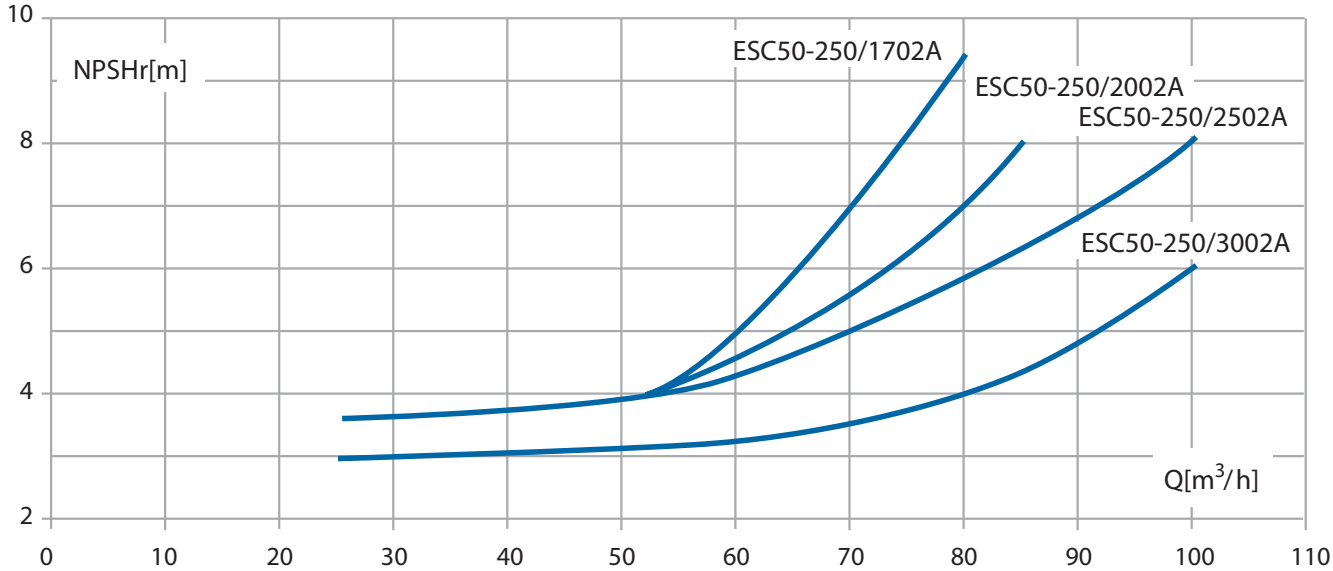


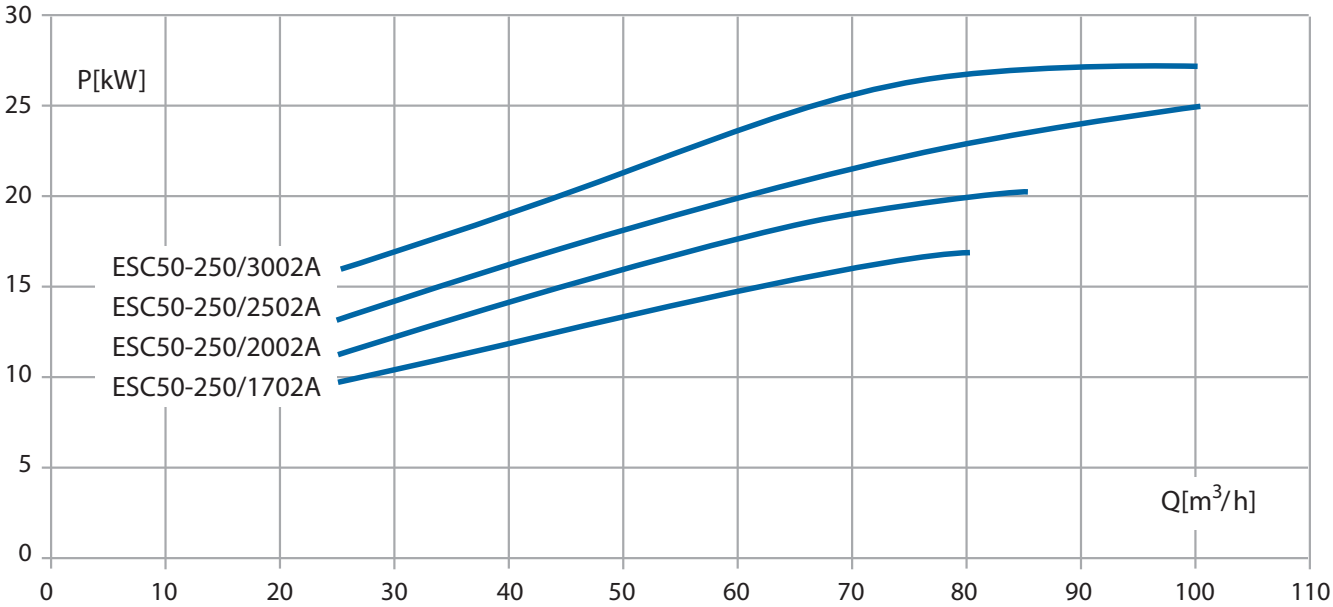




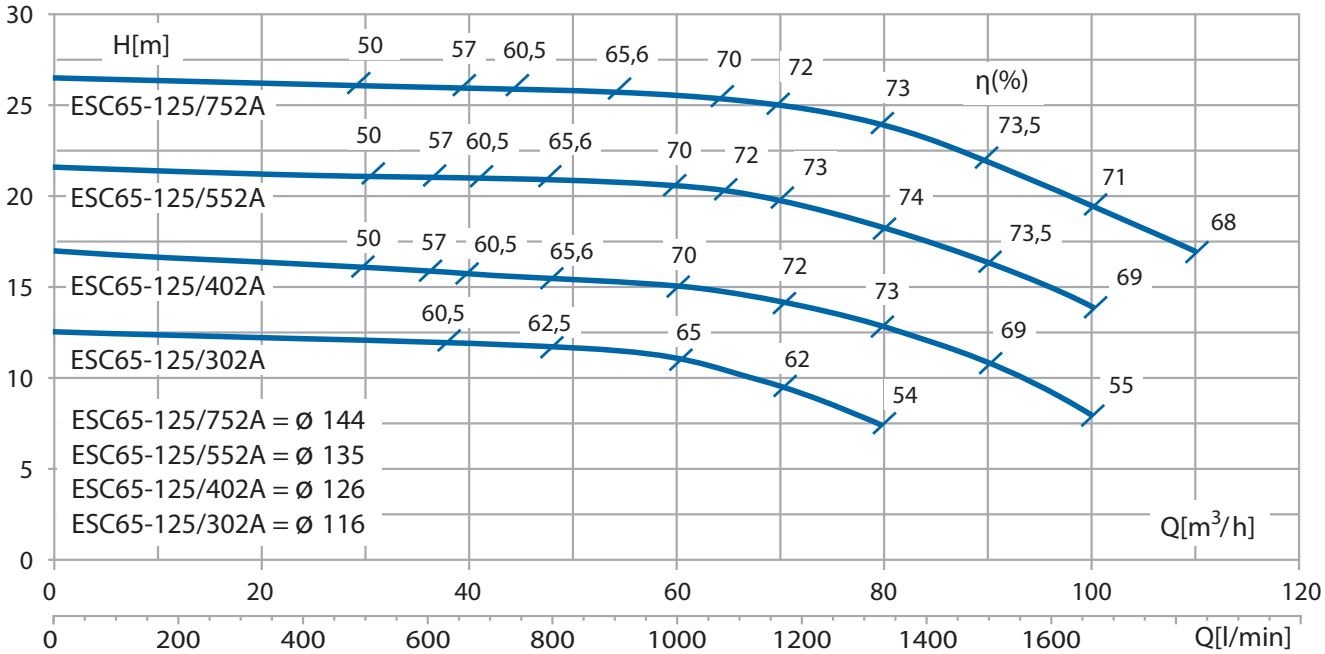
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

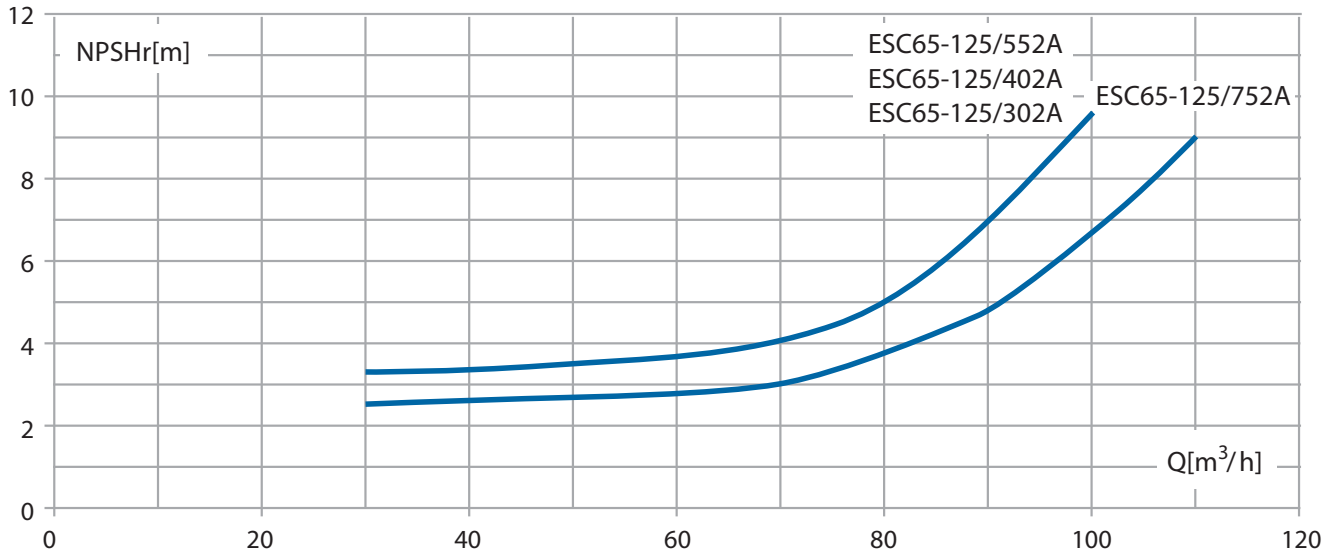


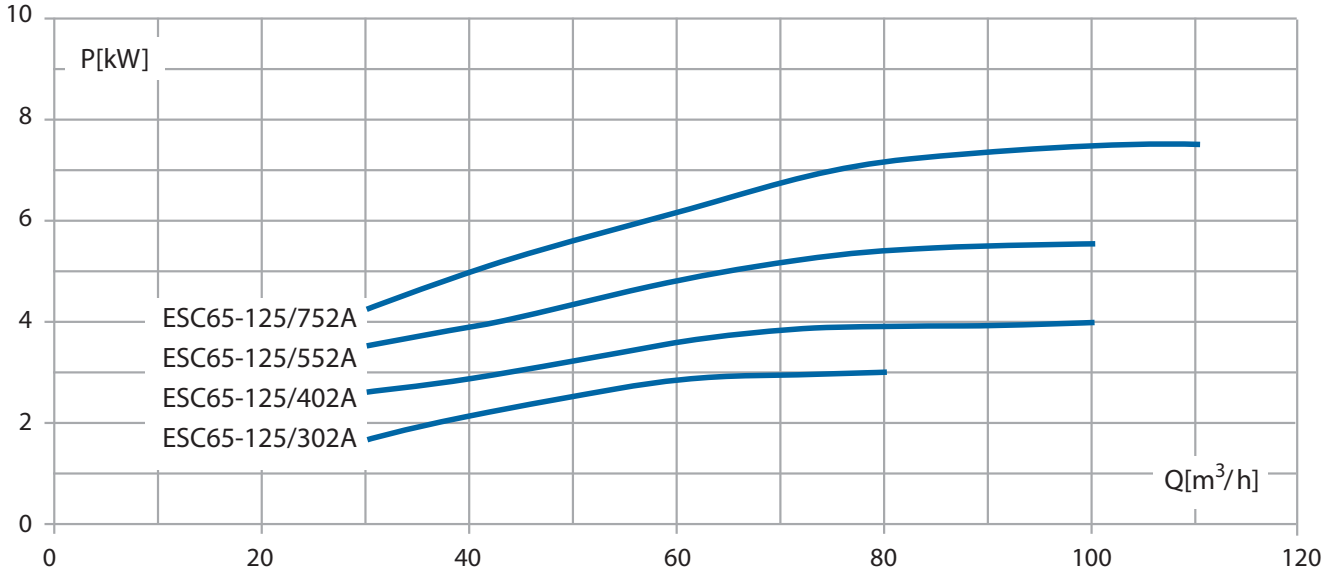




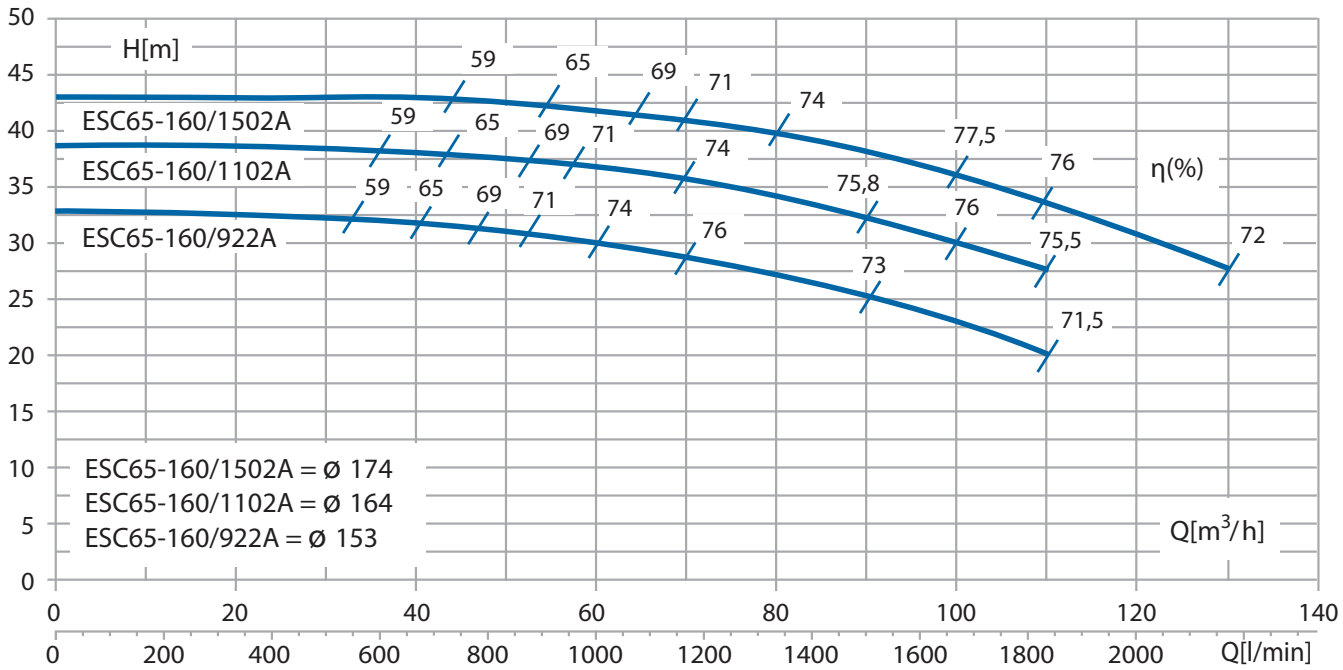
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

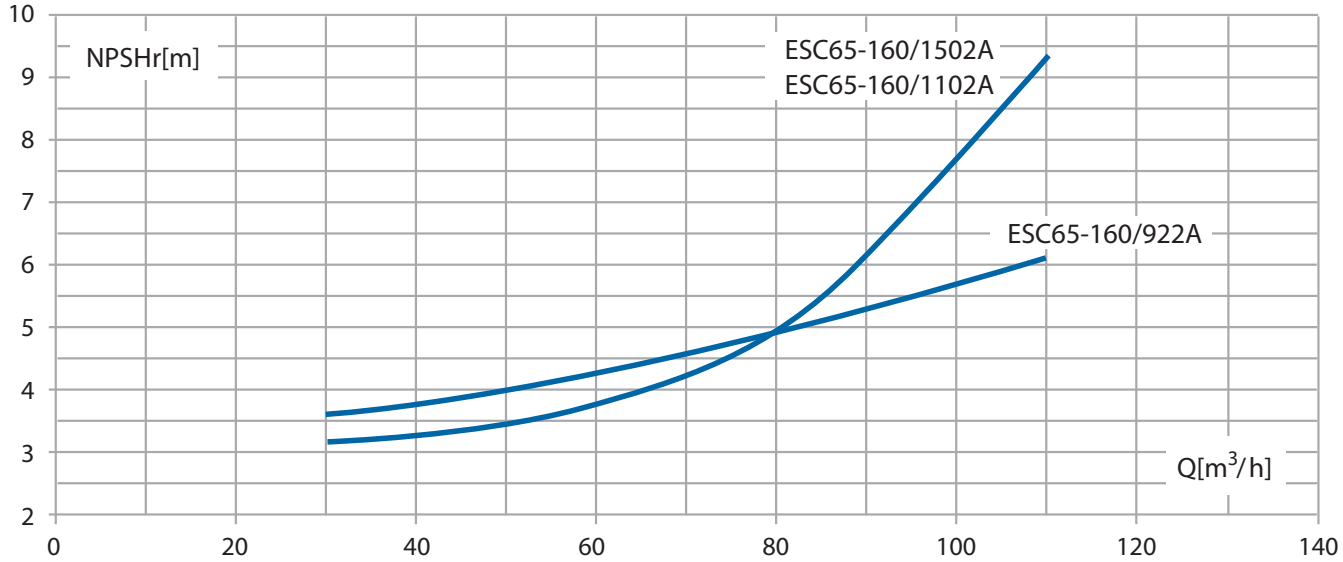


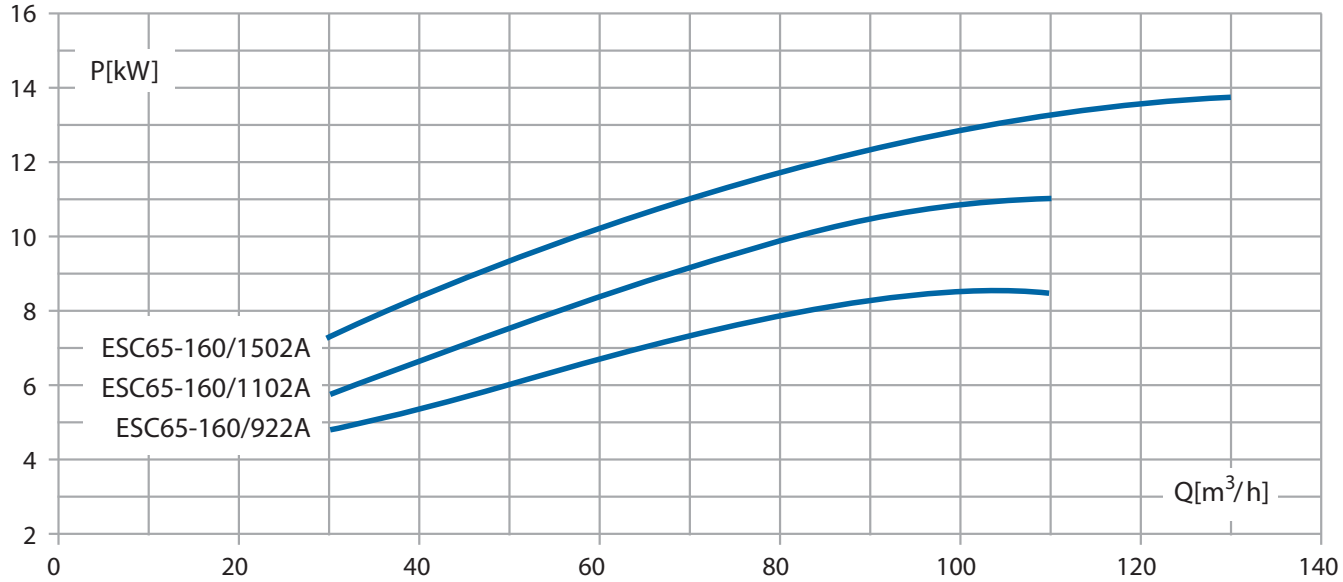




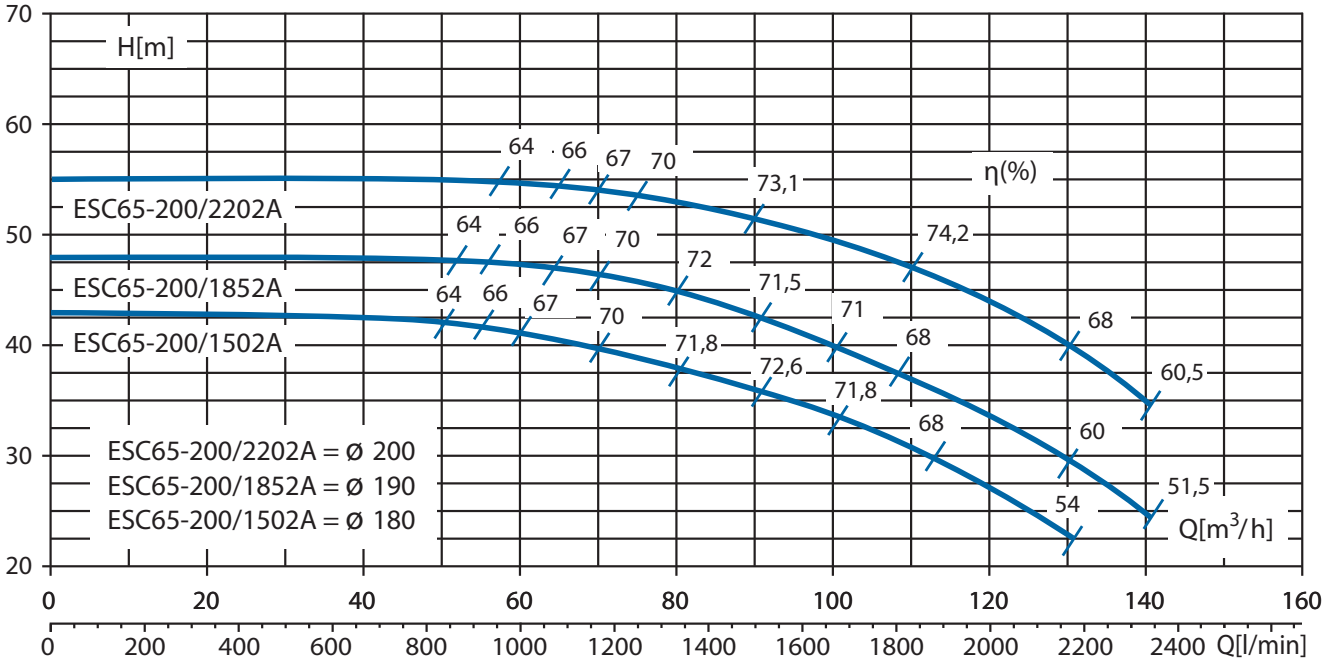
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

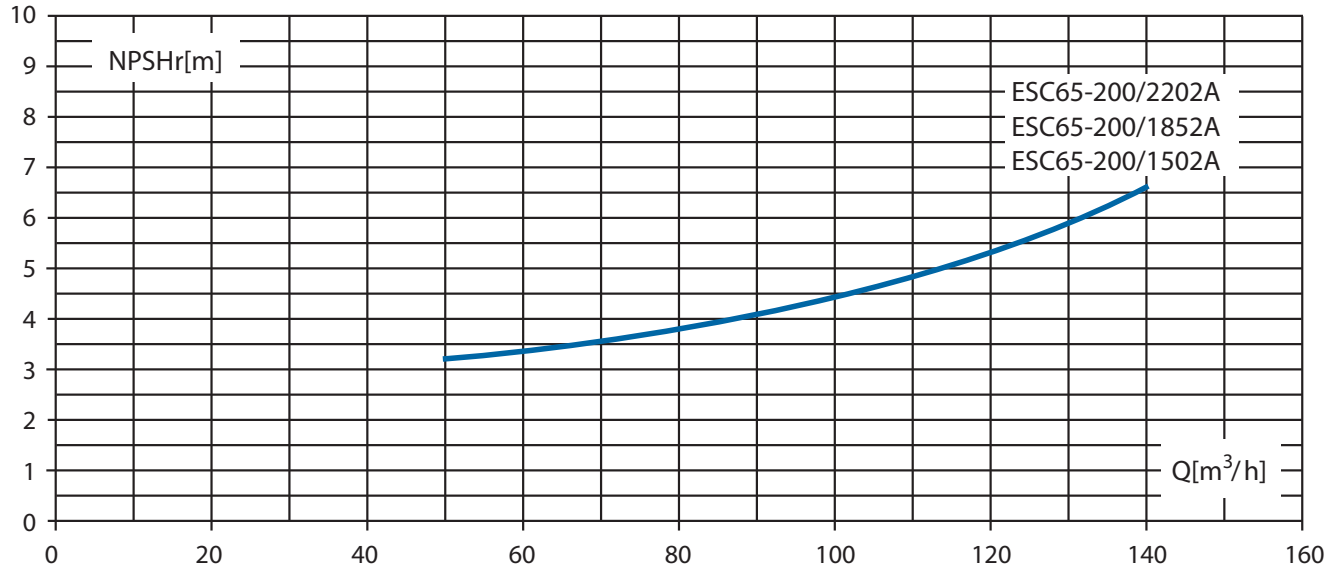


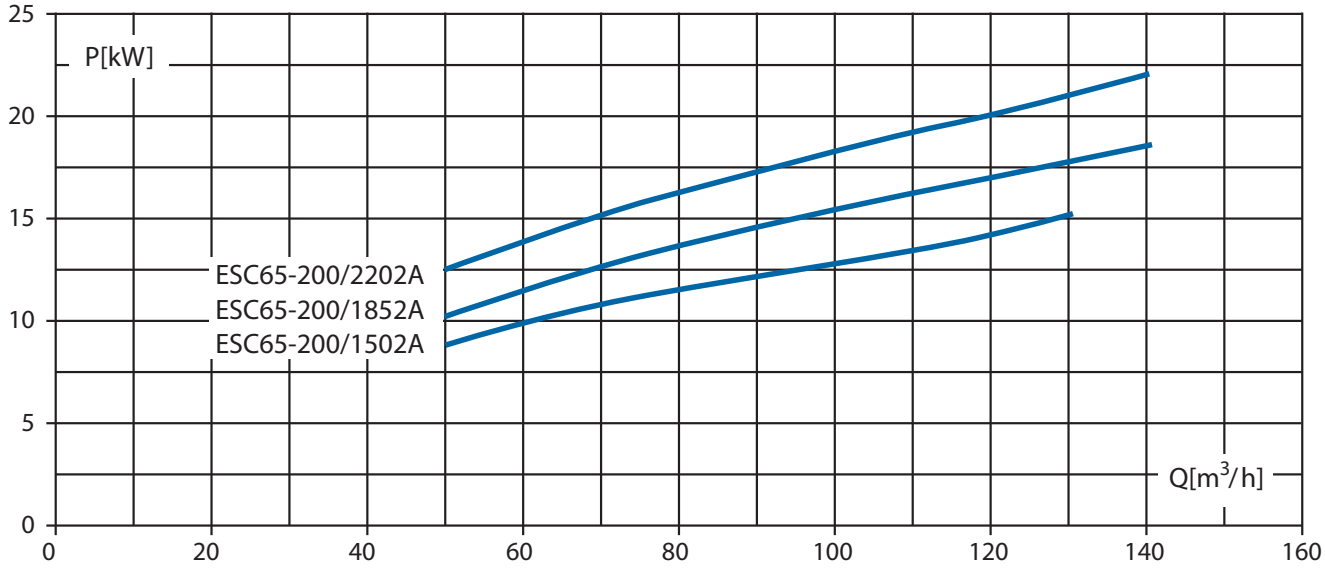




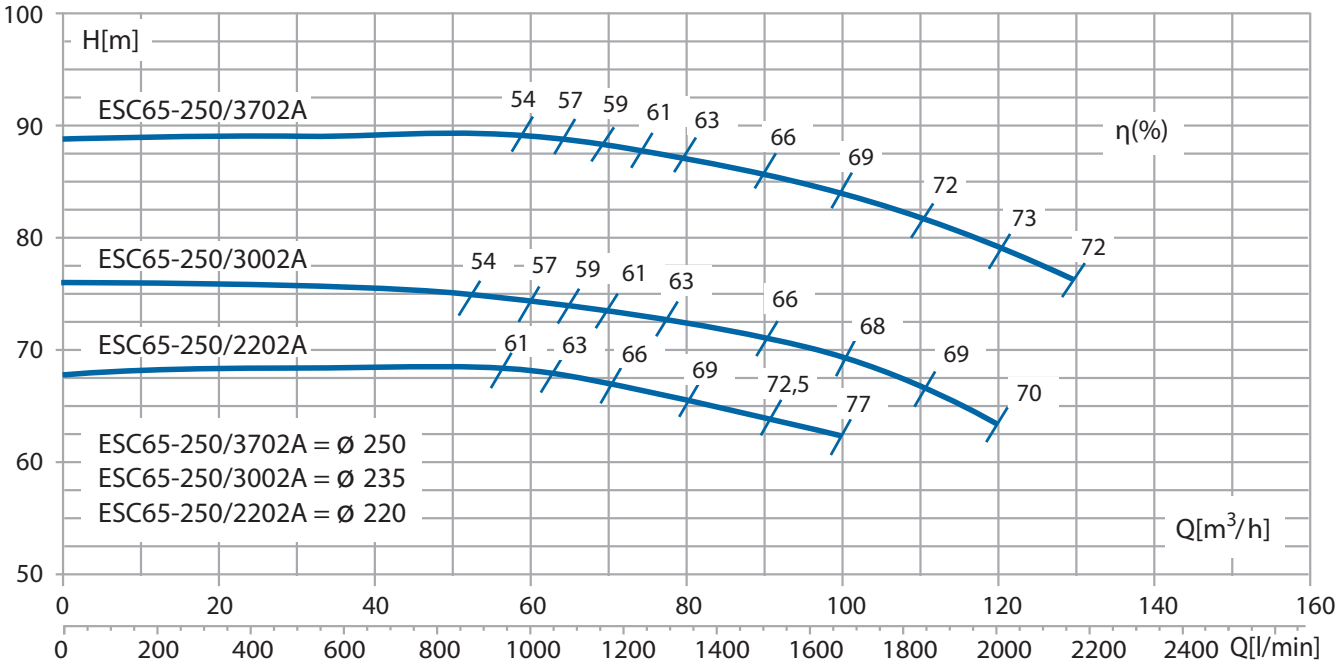
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

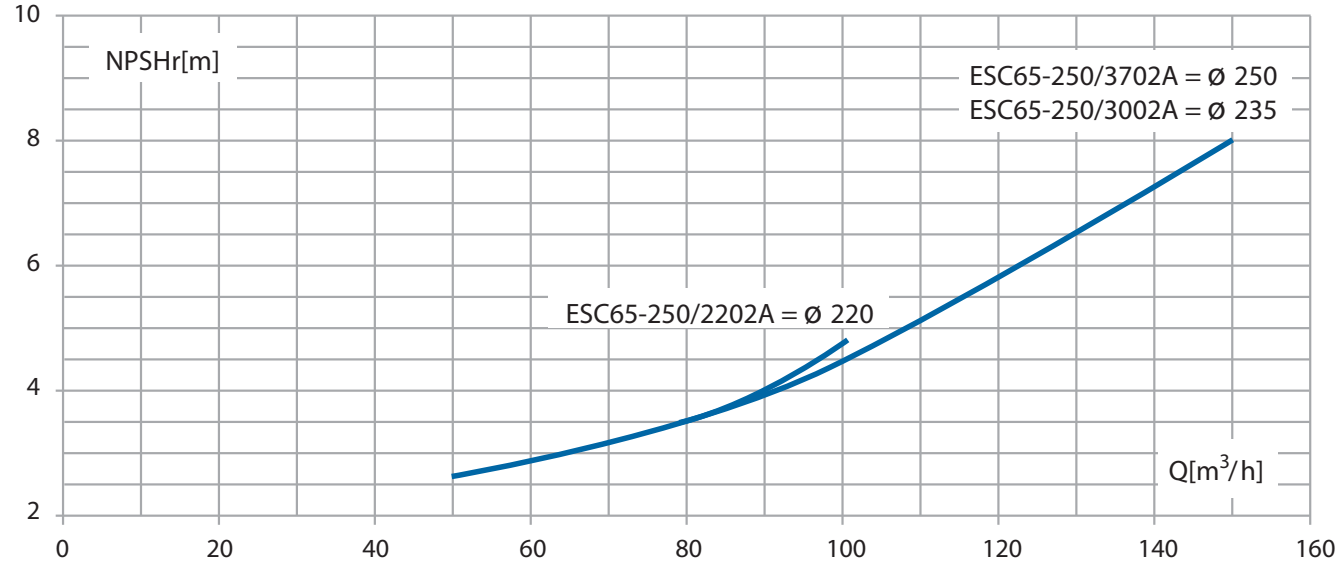


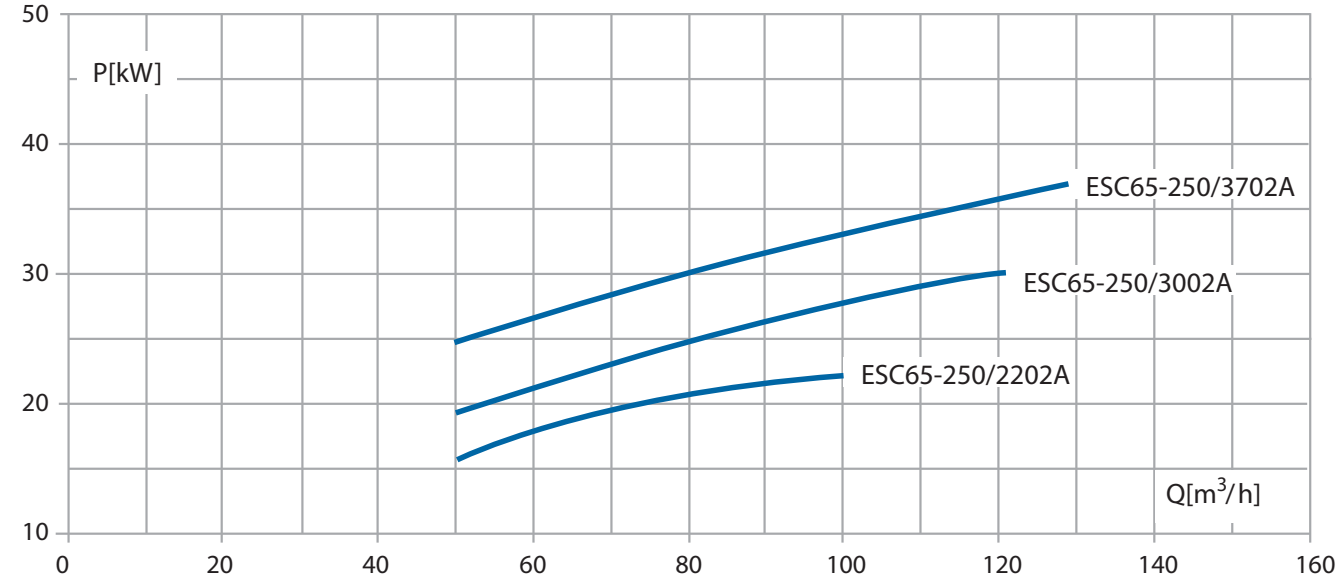




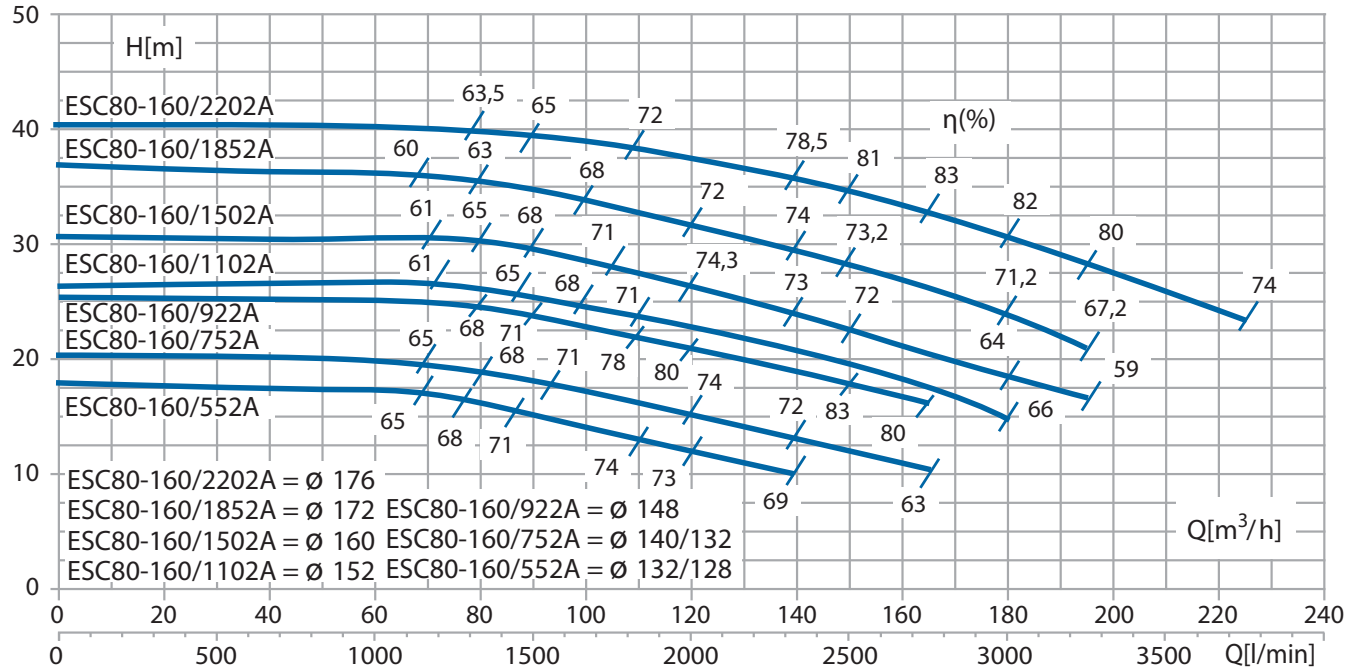
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

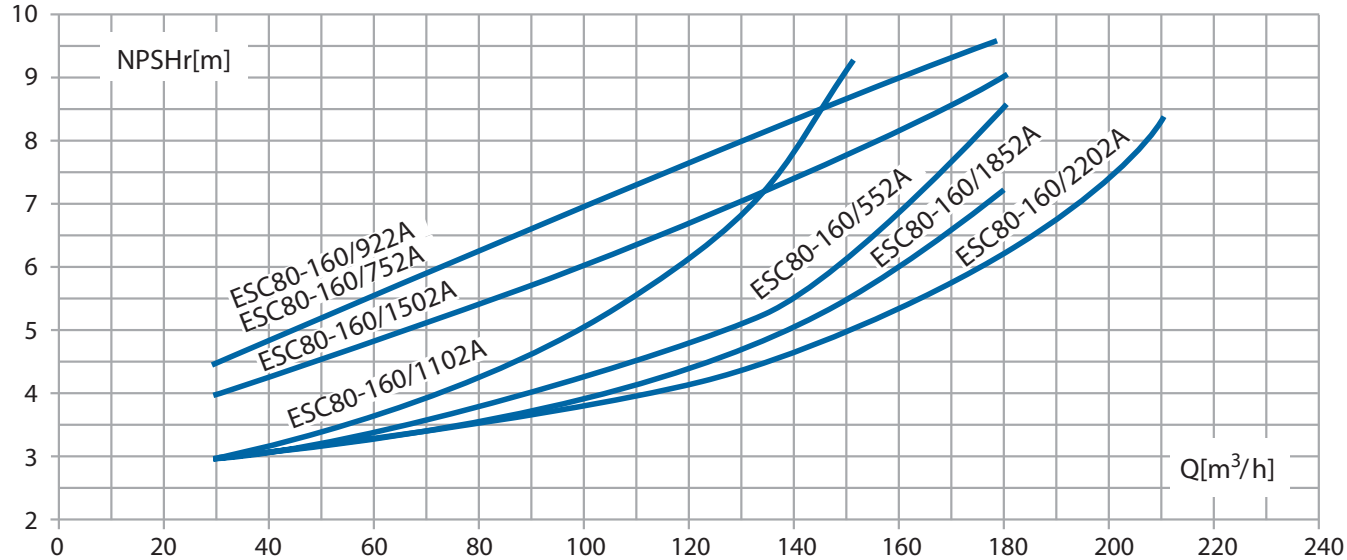


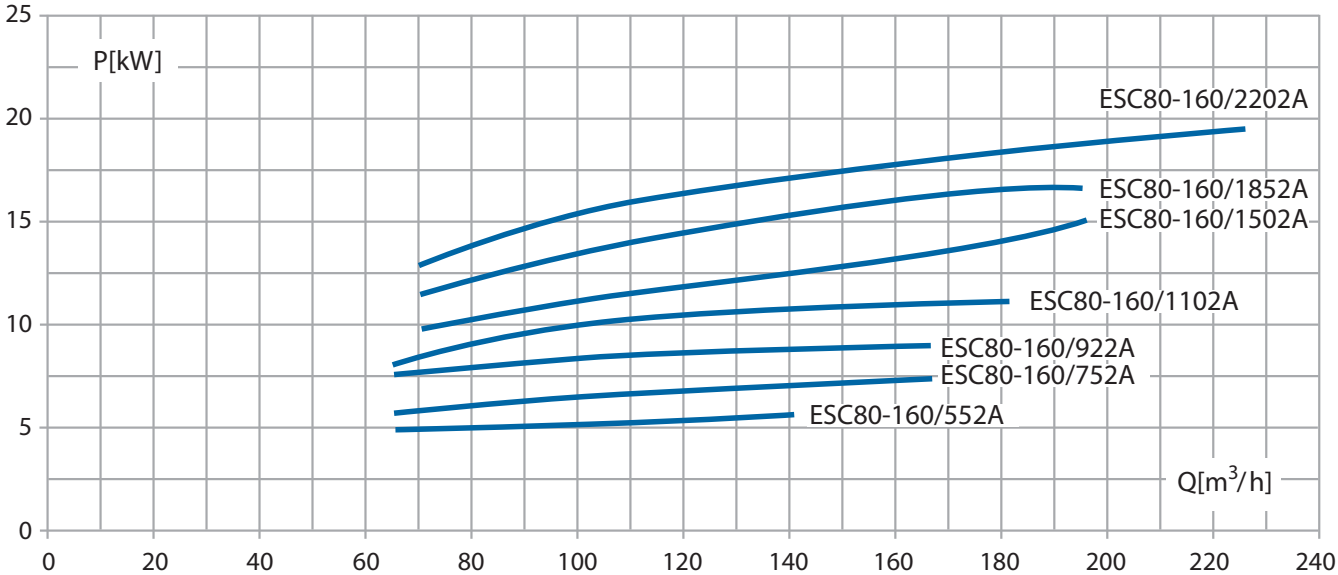




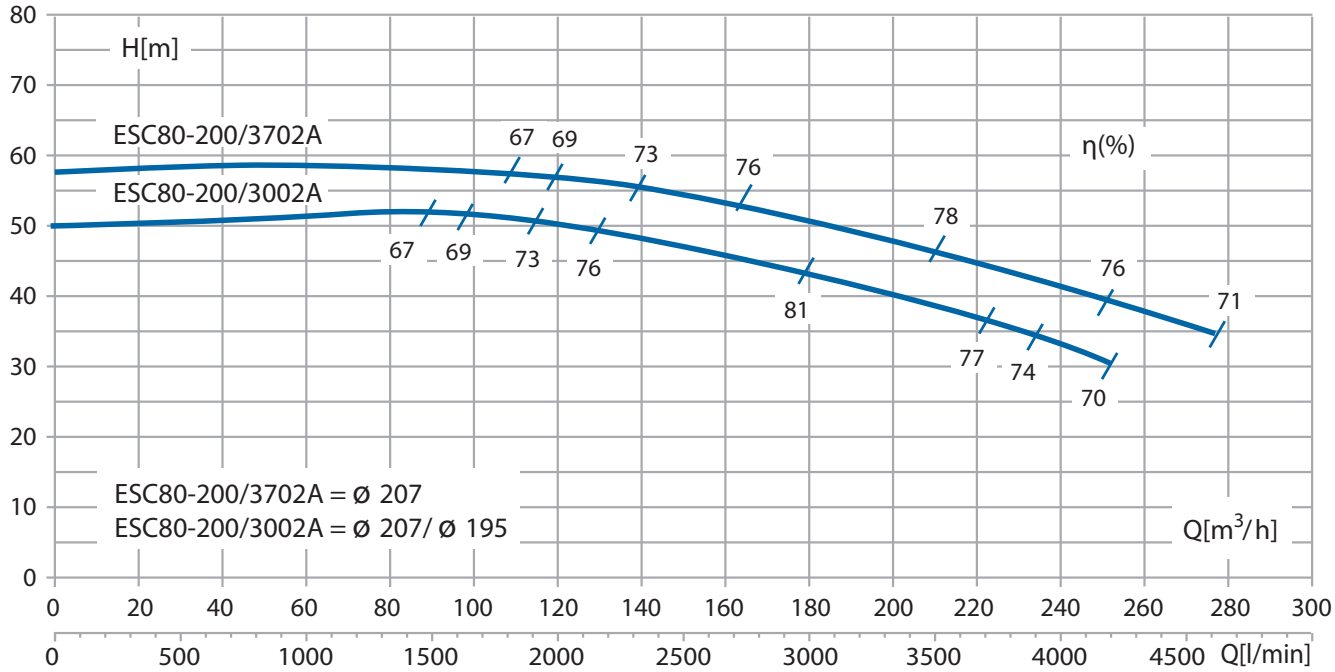
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

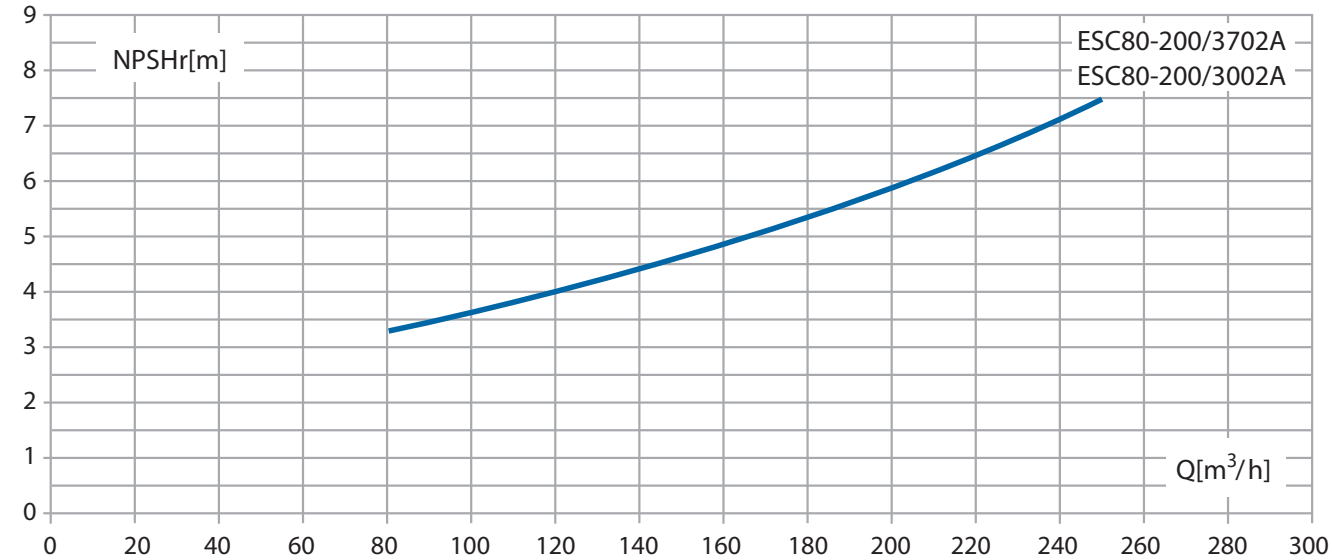


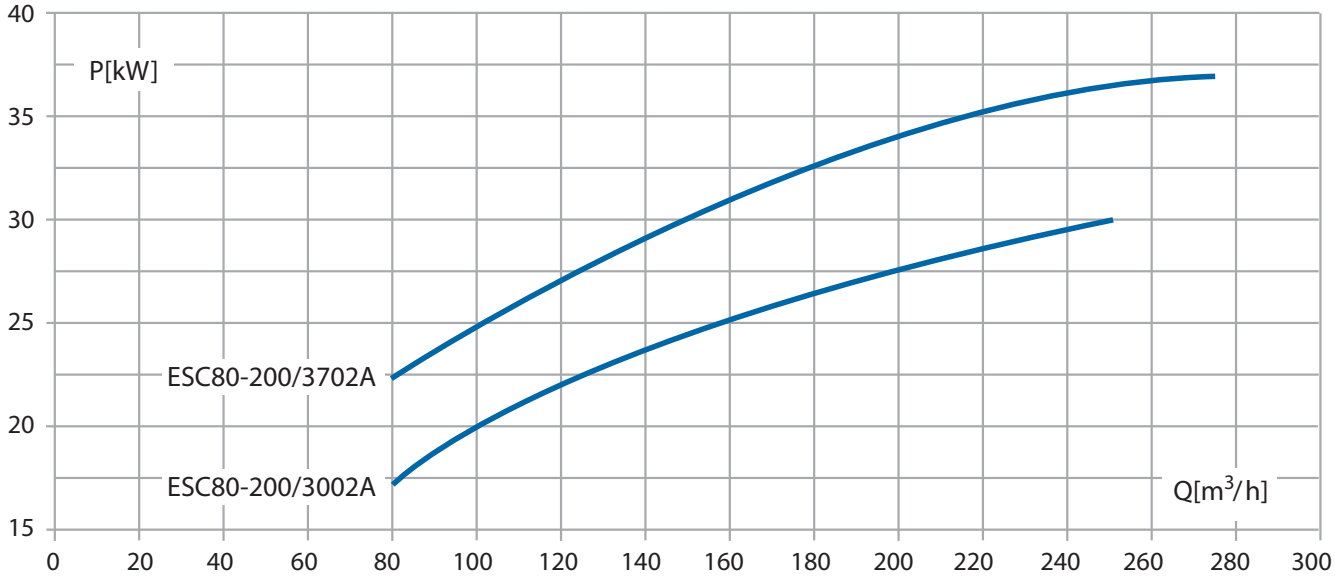




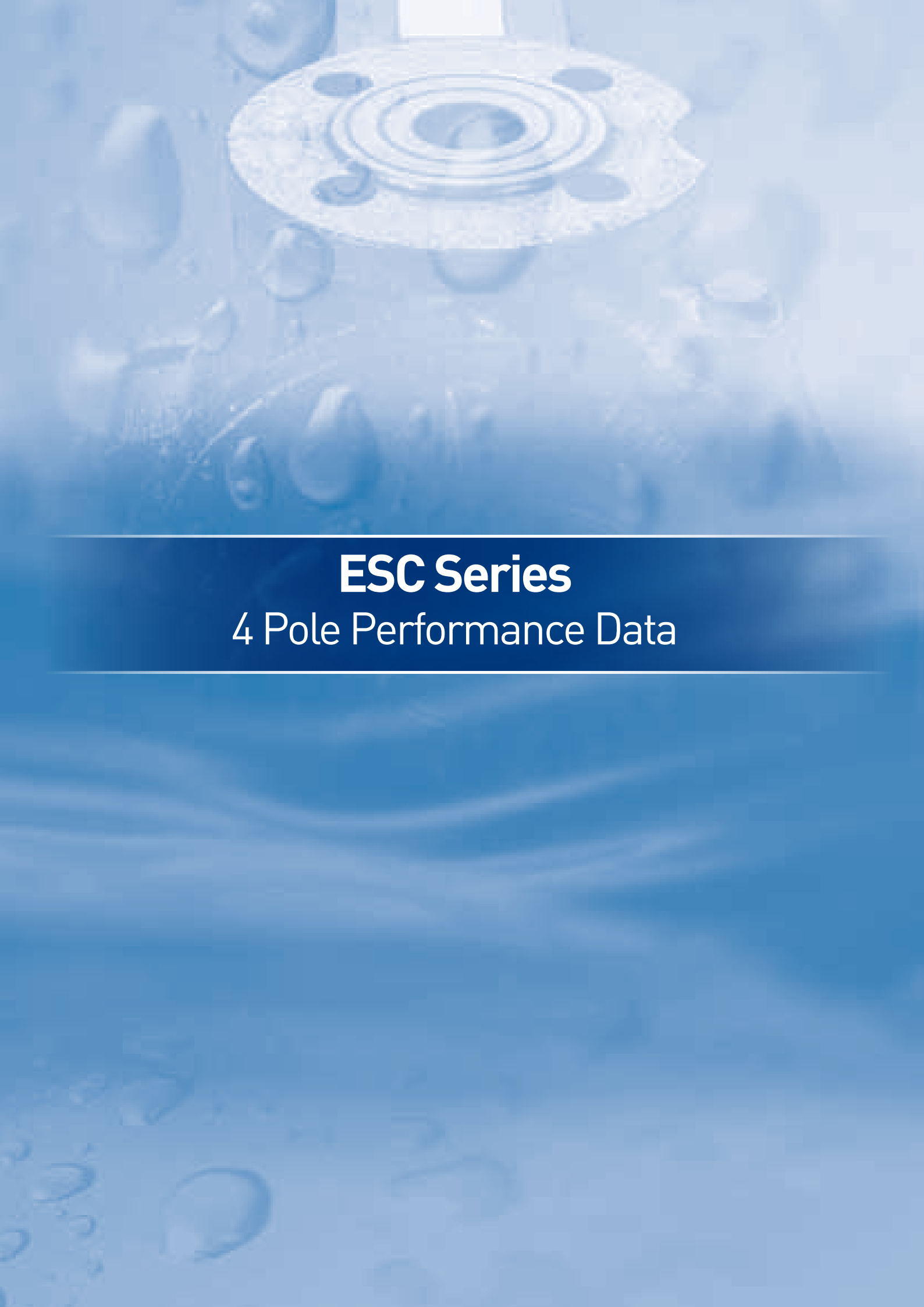
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.







Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.



ESC Series

4 Pole Performance Data

ESC SERIES
4 Pole Performance Data
Modus FLUID TECHNOLOGY

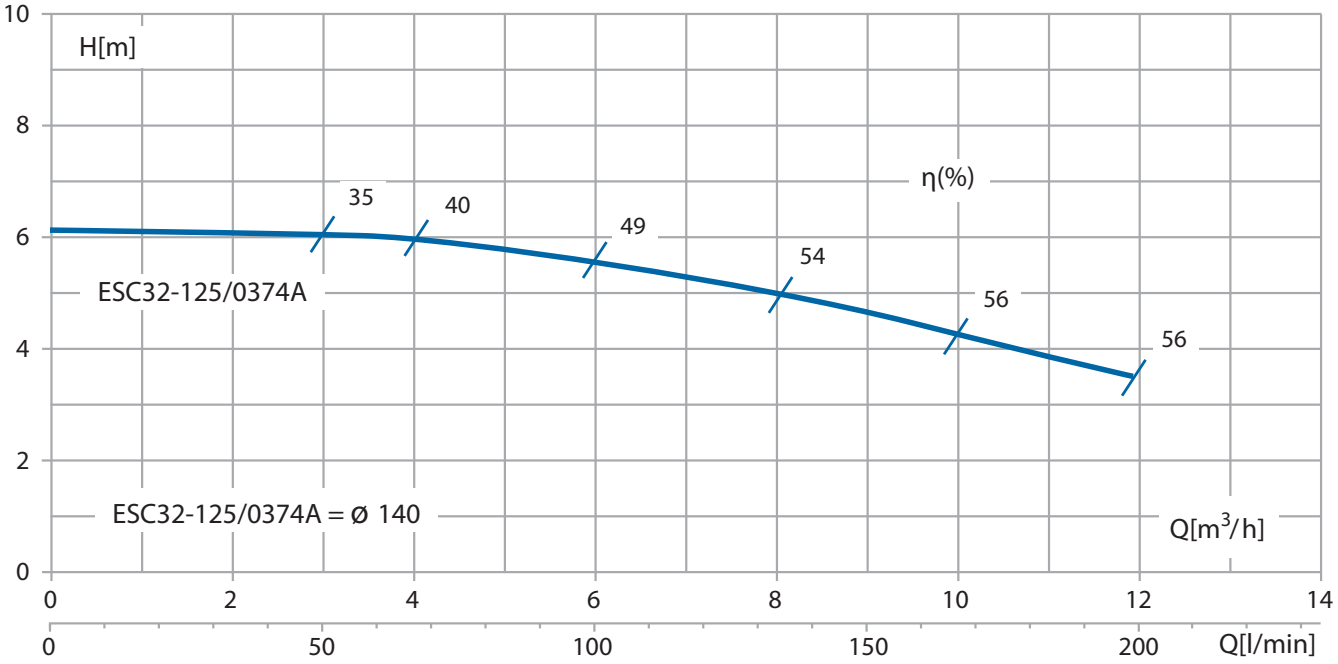
Performance Data ESC32 - ESC65

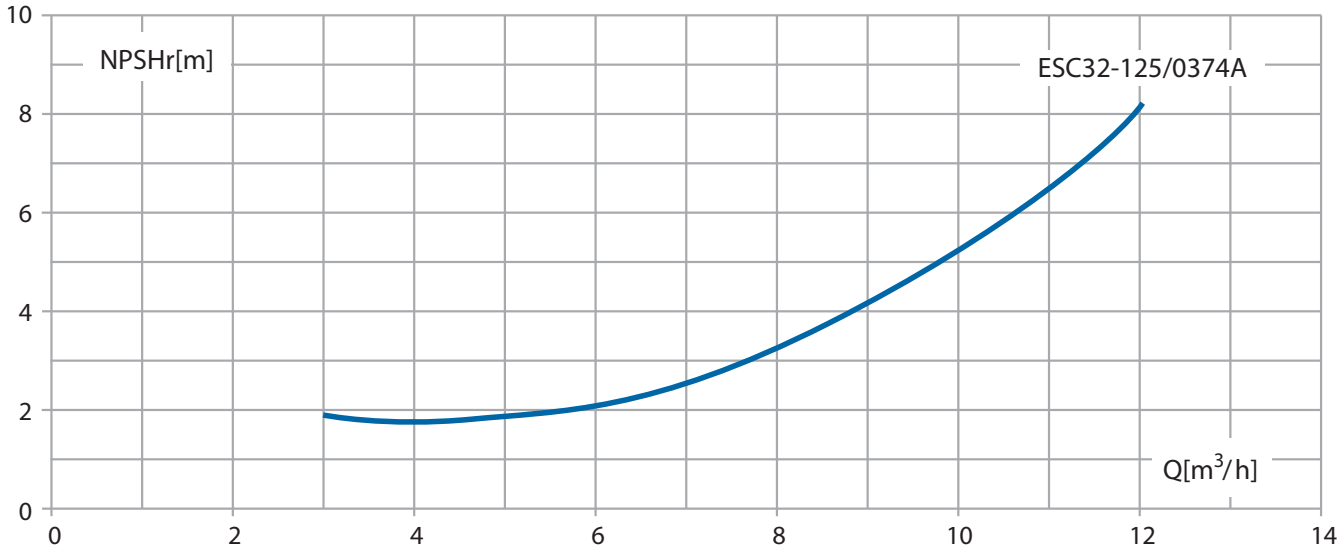
Model	P2		US gpm	0	13	17	26	35	44	53	62	70	79	88		110	132	154	176	198	220	242	264	286	308	330	350	396	440	484	528	572	616
			Q m³/h	0	3	4	6	8	10	12	14	16	18	20		25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140
	kW	HP	l/min	0	50	67	100	133	167	200	233	267	300	333		417	500	583	667	750	833	917	1000	1083	1167	1250	1333	1500	1667	1833	2000	2167	2333
ESC32-125/0374A	0,37	0,5		6,1	6	5,9	5,5	5	4	3,5																							
ESC32-160/0554A	0,55	0,75		9,5	9,4	9,3	8,9	8,1	7,1	5,8	5																						
ESC32-200/114A	1,1	1,5		16,5	16,2	16	15,9	15,2	14	12,7	11,2	9,5	7,5																				
ESC32-250/224A	2,2	3		23,5	23,1	23	22,6	22,2	21,8	21,3	20,8	20,1	19,4	18,5		15,8																	
ESC40-125/0374A	0,37	0,5		6,2			6,1	6	5,8	5,5	5,1	4,7	4,2	3,5																			
ESC40-160/0754A	0,75	1		9,8			9,7	9,6	9,5	9,2	8,9	8,6	8,2	7,6		6,7	5																
ESC40-200/114A	1,1	1,5		14			13,6	13,3	12,9	12,4	11,7	10,9	10,1	9,2		6,7																	
ESC40-250/224A	2,2	3		20			19,9	19,6	19,4	19,2	19	18,6	18,3	17,8		16,6	15	12,6															
ESC40-250/304A	3	4		23,7			23,6	23,5	23,3	23,1	22,8	22,5	22,2	21,7		20,3	18,5	16,2															
ESC40-315/404A	4	5,5		25,2			25,1	25	24,9	24,8	24,7	24,6	24,4	24,2		23,4	22,5	21,1	19,5														
ESC40-315/554A	5,5	7,5		30,9			30,7	30,6	30,6	30,5	30,4	30,3	30	29,8		29,1	27,9	26,7	25,5	23,5	21,1												
ESC40-315/924A	9,2	12,5		40					40	40	39,9	39,7	39,6	39,5		39	38,4	37,6	36,7	35,6	34	32,6	30,8										
ESC50-125/0554A	0,55	0,75	HEAD (m)	6,4					6,3	6,2	6,1	6	5,8	5,6		5,1	4,2																
ESC50-160/114A	1,1	1,5		9					8,9	8,8	8,7	8,6	8,5	8,2		7,7	6,7	5,7															
ESC50-200/154A	1,5	2		14					13,7	13,5	13,3	13	12,7	12,4		11,3	10	8,2															
ESC50-200/304A	3	4		18					18	17,9	17,8	17,7	17,5	17		16,8	16	14,8	13,8	12,2	10,8	9,2											
ESC50-250/224A	2,2	3		16,8					16,5	16,3	16,1	15,9	15,8	15,4		14,8	13,7	12,5	10														
ESC50-250/404A	4	5,5		24					23,8	23,7	23,6	23,5	23,4	23,3		22,9	22,1	21,2	20	18	16,4	13,9	11,3										
ESC65-125/0754A	0,75	1		6,1												5,6	5,4	5	4,7	4,2	3,7	3,1											
ESC65-160/154A	1,5	2		10,4												10,3	10,1	9,8	9,5	9,1	8,7	8,2	7,6										
ESC65-200/304A	3	4		17,7												17,3	16,9	16,5	16	15,5	15	14,2	13,4	12,4	11,6	10,5	9,3						
ESC65-250/404A	4	5,5		19												18,7	18,6	18,4	18,2	18	17,5	16,9	15,7	14									
ESC65-250/554A	5,5	7,5		22,2												22	21,8	21,6	21,4	21,1	20,5	20,1	19,5	18,8	17,8	16,8	15,6	13					
ESC65-315/924A	9,2	12,5		28,5												28,3	28,2	28	27,7	27,3	27	26,4	25,7	25	24,7	23,5	23	21,2	19	16,2	14		
ESC65-315/1104A	11	15		33													32,6	32,4	32,2	32	31,7	31,4	31	30,5	30,4	30	29	27	24,3	21,3	18,8		
ESC65-315/1504A	15	20		43													42	41,3	41	40,5	40,2	40	39,2	38,6	37,9	37,2	36,5	35	33,2	31	28,8	26,3	23,7

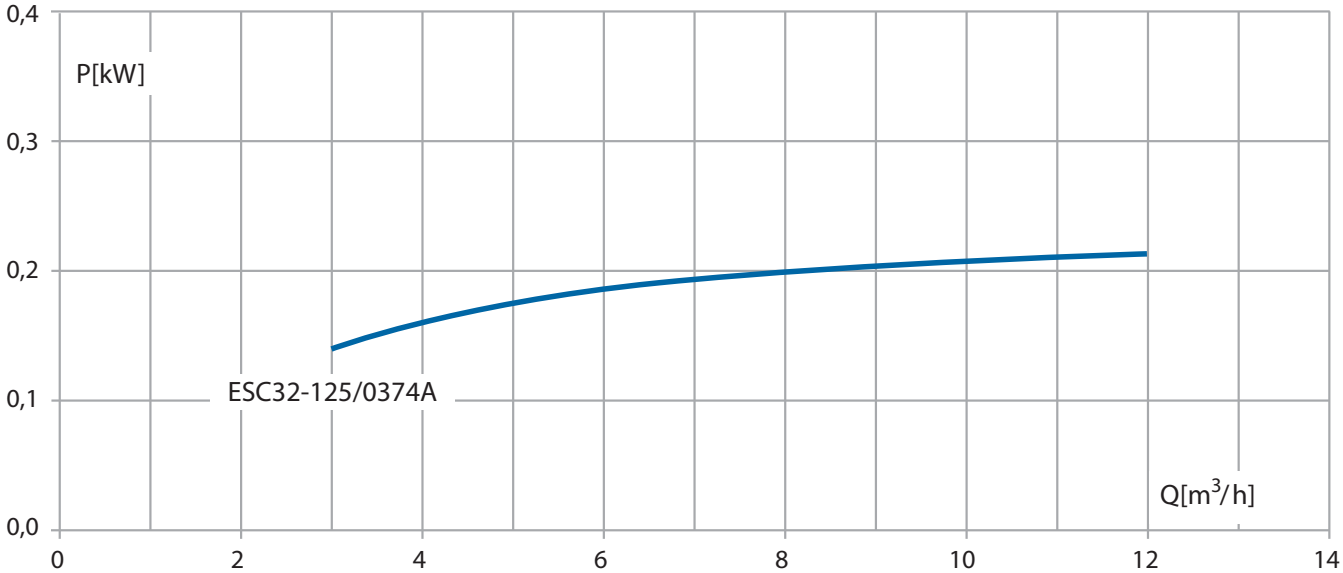
ESC SERIES
4 Pole Performance Data
Modus FLUID TECHNOLOGY

Performance Data ESC80 - ESC125

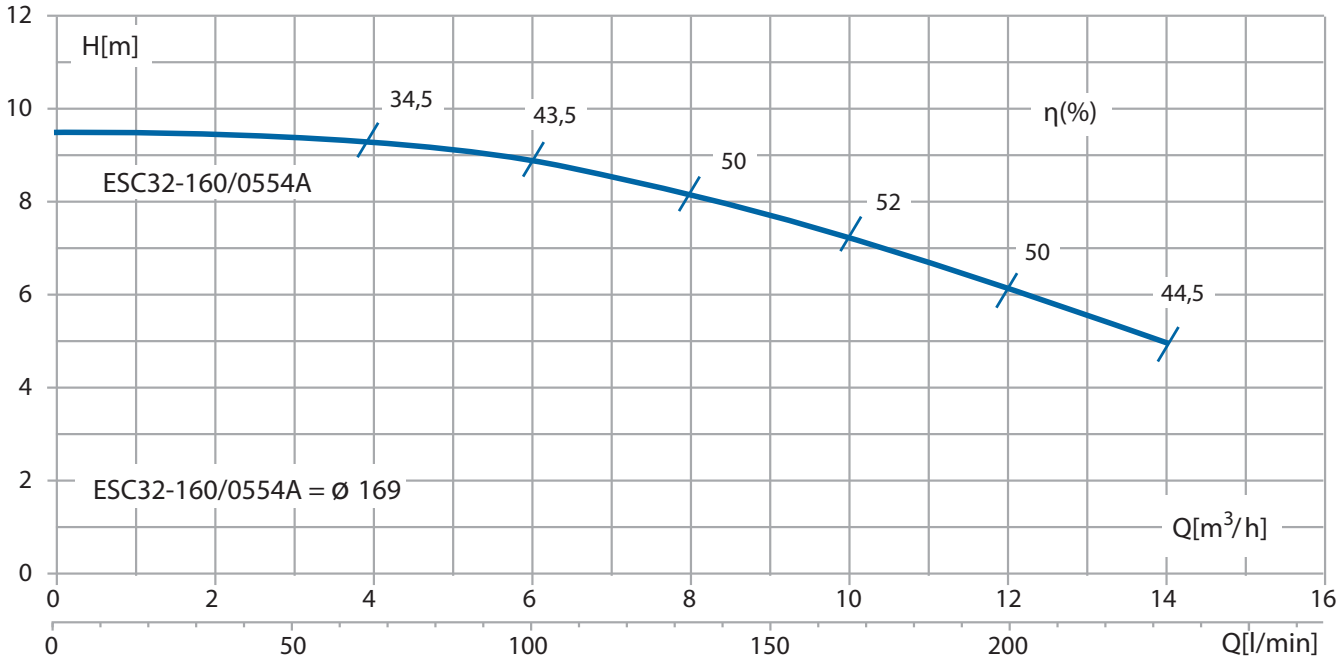
Model	P2		US gpm	0	176	198	220	242	264	286	308	330	350	396		440	484	528	572	616	660	704	748	793	880	990	1100	1210	1321	1431	1541	1651	
			Q m³/h	0	40	45	50	55	60	65	70	75	80	90		100	110	120	130	140	150	160	170	180	200	225	250	275	300	325	350	375	400
	kW	HP	l/min	0	667	750	833	917	1000	1083	1167	1250	1333	1500		1667	1833	2000	2167	2333	2500	2667	2833	3000	3333	3750	4167	4583	5000	5417	5833	6250	
ESC80-160/224A	2,2	3		9,6	9,4	9,3	9,2	9	8,8	8,5	8,2	7,9	7,6	6,8		6	5,4	4,5															
ESC80-200/404A	4	5,5		13	12,8	12,7	12,6	12,5	12,4	12,2	12,1	11,8	11,5	10,9		10,1	9,2	8,1	7,0														
ESC80-200/554A	5,5	7,5		14,5	14,5	14,5	14,5	14,4	14,3	14,2	14,1	13,9	13,8	13,3		12,8	12	11,1	10,1	8,7	7,3												
ESC80-250/754A	7,5	10		18	17,8	17,7	17,5	17,3	17	16,7	16,5	16,2	16	15,6		15,4	13,3	13	12,3	10,8	9,7	8,4											
ESC80-250/924A	9,2	12,5		24,2	23,6	23,5	23,3	23,2	23	22,8	22,6	22,3	22,1	21,6		21,1	20,4	19,7	18,9	17,9													
ESC80-315/1104A	11	15		28,1	28,1	28,1	28,1	28,1	27,9	27,7	27,3	27,2	26,9	26,4		25,5	25	23,8	23	22	21,3												
ESC80-315/1504A	15	20		34	34	34	34	33,9	33,8	33,7	33,5	33,2	33	32,5		32,2	31,4	30,5	29,5	28,6	27,6	26,3											
ESC80-315/2204A	22	30		40,7					40,3	40,2	40	39,8	39,6	39,1		38,6	38,2	37,5	36,5	35,8	34,6	33,7	32,7	31	28,5								
ESC100-200/554A	5,5	7,5		10,8					10,5	10,4	10,3	10,1	10	9,8		9,4	9	8,4	7,9	7,1	6,5	5,6											
ESC100-200/754A	7,5	10	HEAD (m)	15,1					15	15	15	14,9	14,8	14,6		14,3	13,9	13,5	13,1	12,5	11,8	11,1	10,4	9,5	8								
ESC100-250/924A	9,2	12,5		21					20,9	20,9	20,8	20,7	20,6	20,4		20,2	20	19,5	19	18,5	17,5	17	16,5	15	12,4	10	7						
ESC100-250/1504A	15	20		24,7					24,7	24,7	24,7	24,7	24,6	24,4		24	23,8	23,5	23,3	22,6	22,2	21,4	20,6	20	18,2	15,9	13,4	10					
ESC100-315/1854A	18,5	25		28					28	28	27,9	27,8	27,7	27,6		27,5	27	26,7	26,2	25,8	25,4	24,8	24,4	23,6	22,3	20,2	18						
ESC100-315/2204A	22	30		33,7							33,7	33,7	33,7	33,5		33,5	33,4	33,3	32,9	32,5	32,5	32,1	31,8	31,5	30,5	28,8	27,6	25,6					
ESC100-315/3004A	30	40		40							39,9	39,3	39,2	39		38,7	38,4	38,1	37,7	37,1	36,8	35,7	35,2	34,7	34	32,3	30	27,9	25	21,8	18,2		
ESC125-250/1104A	11	15		17,5								17,2	17	16,9		16,8	16,7	16,5	16,2	15,9	15,6	15,3	15	14,7	14	13,5	12,4	10,5	9	7			
ESC125-250/1854A	18,5	25		24,5												24	23,9	23,8	23,6	23,4	23,1	22,9	22,6	22,4	21,6	21	20	18,7	17,5	15,5	13,8	12	10
ESC125-315/1854A	18,5	25		28												26,5	26,3	25,8	25,5	25	24,7	24,4	23,8	23,2	21,9	20,1	18	15,3	12,5				
ESC125-315/3004A	30	40		34,5												33,5	33,4	33	32,9	32,7	32,3	32,2	31,7	31,5	30,7	29,6	28	26,4	24,6	22,8	20	17,6	15

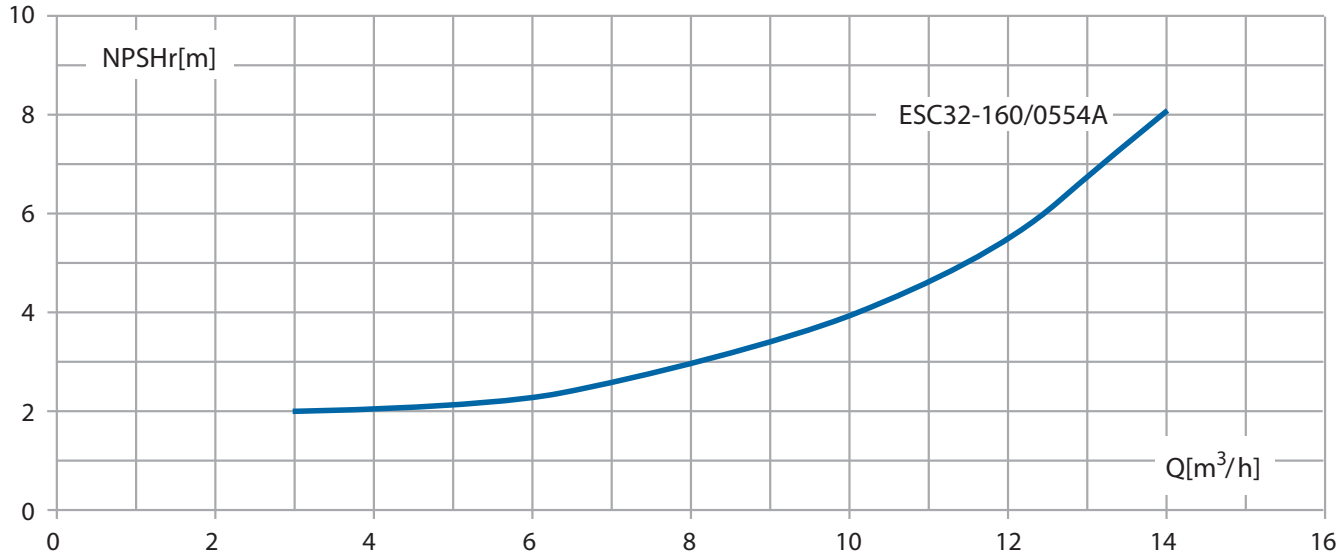


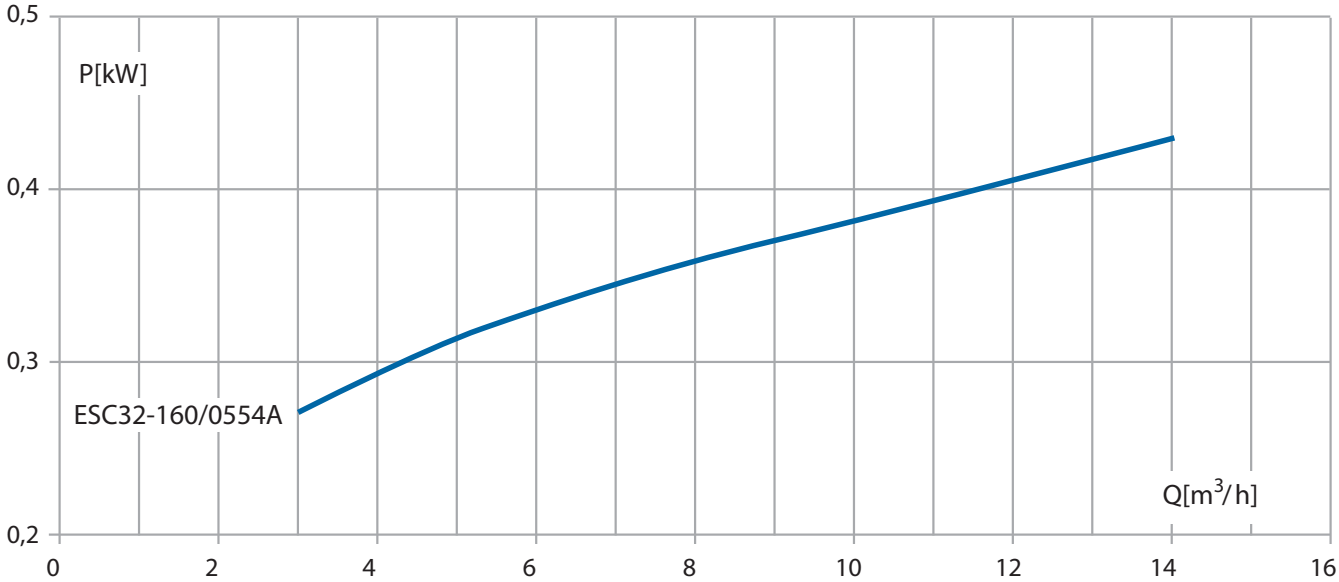




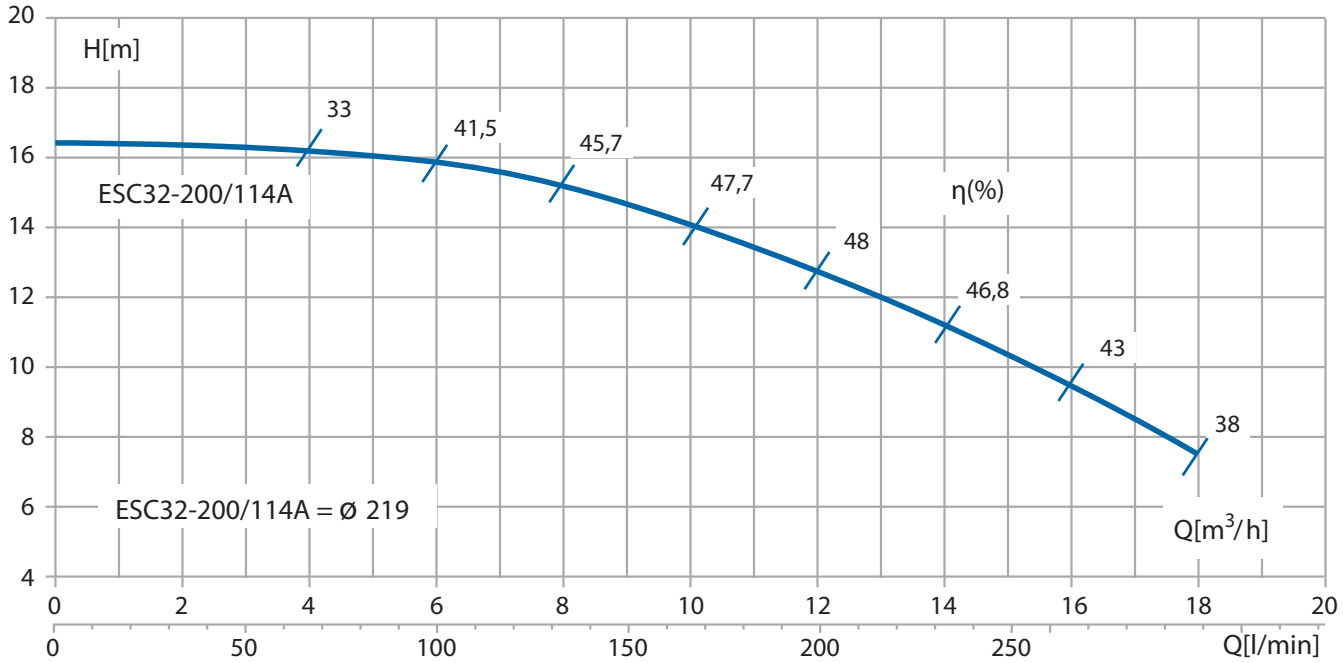
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

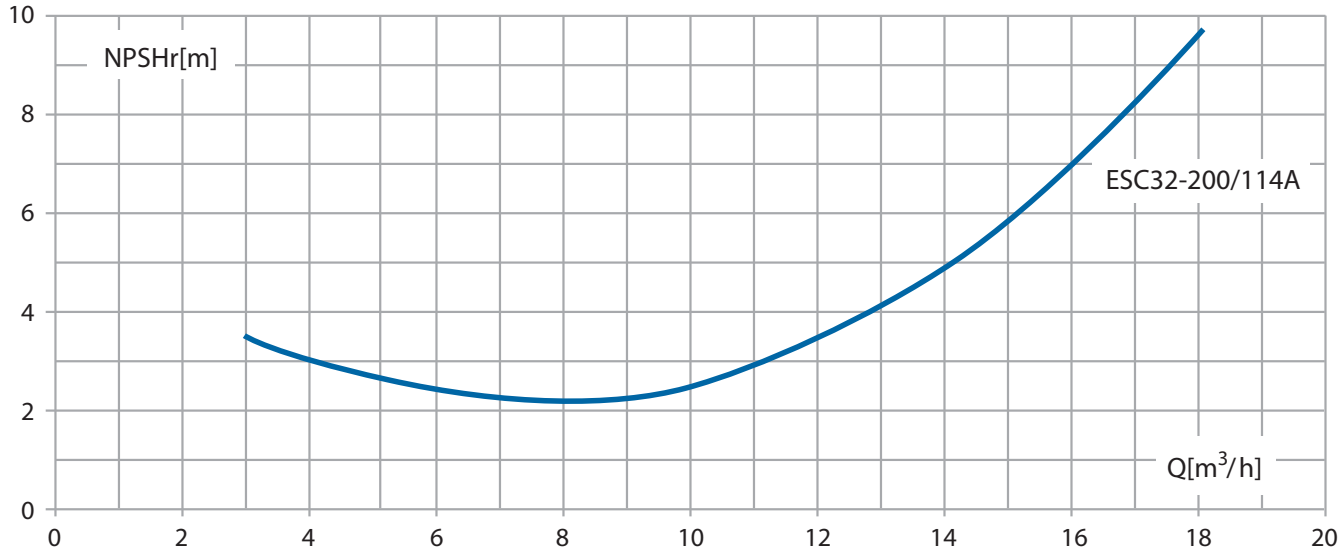


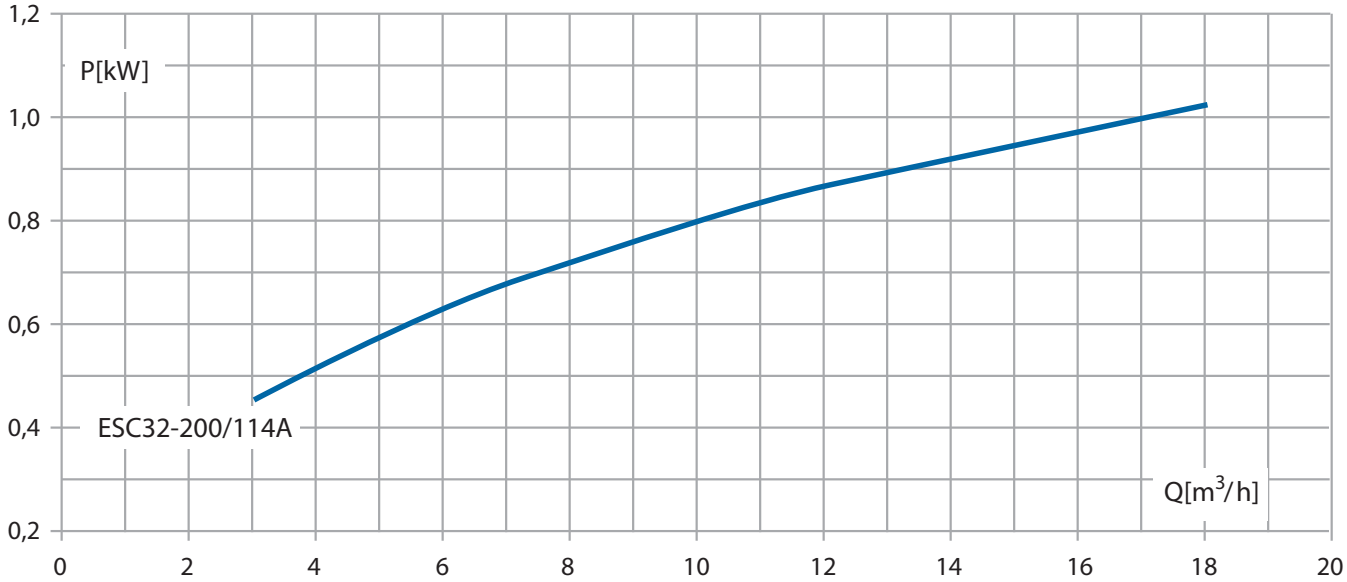




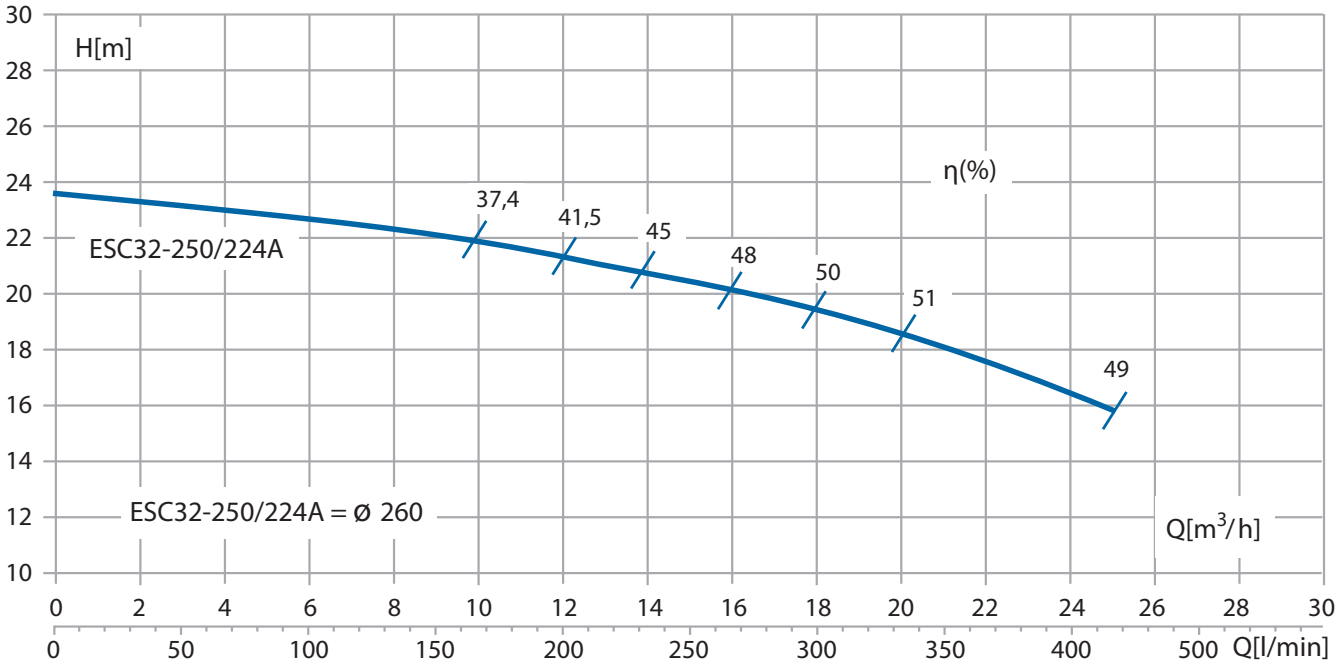
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

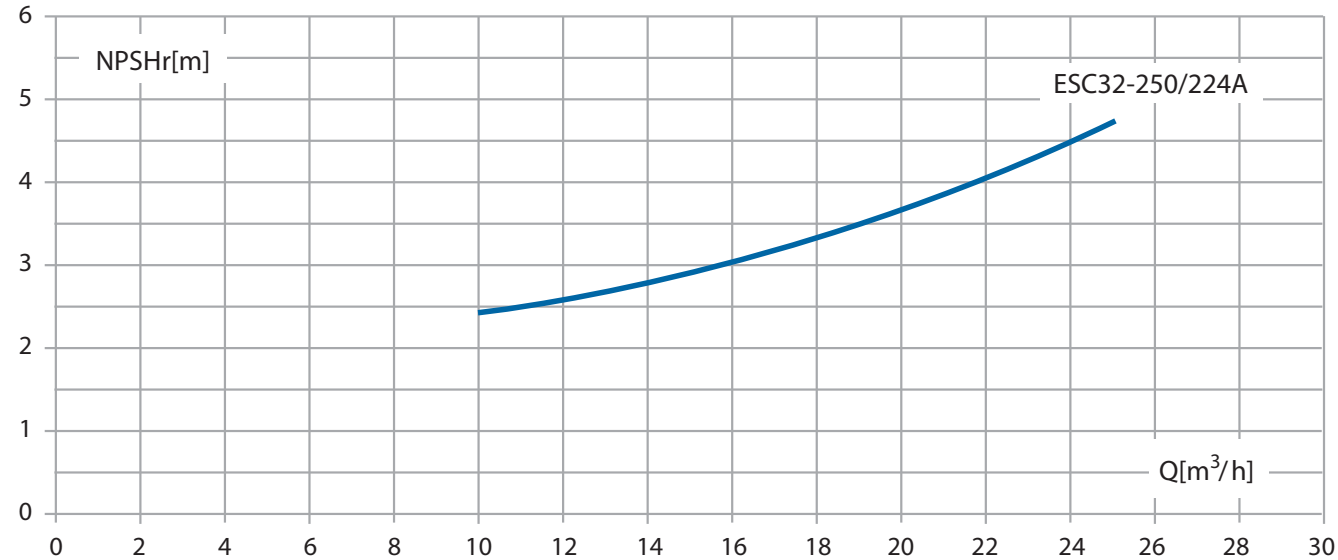


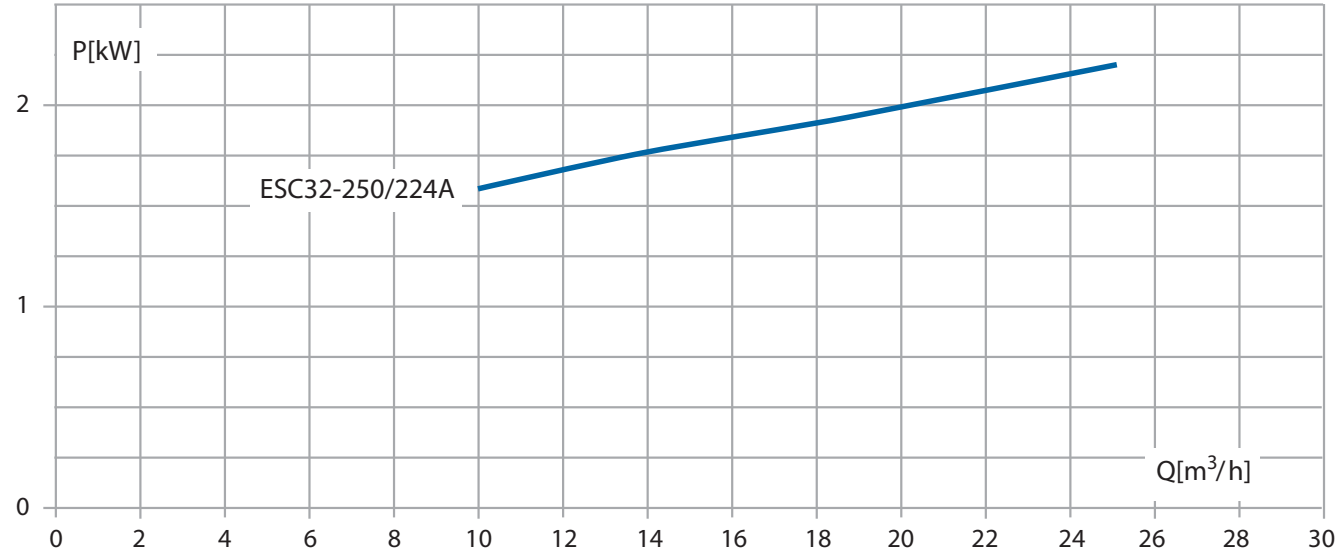




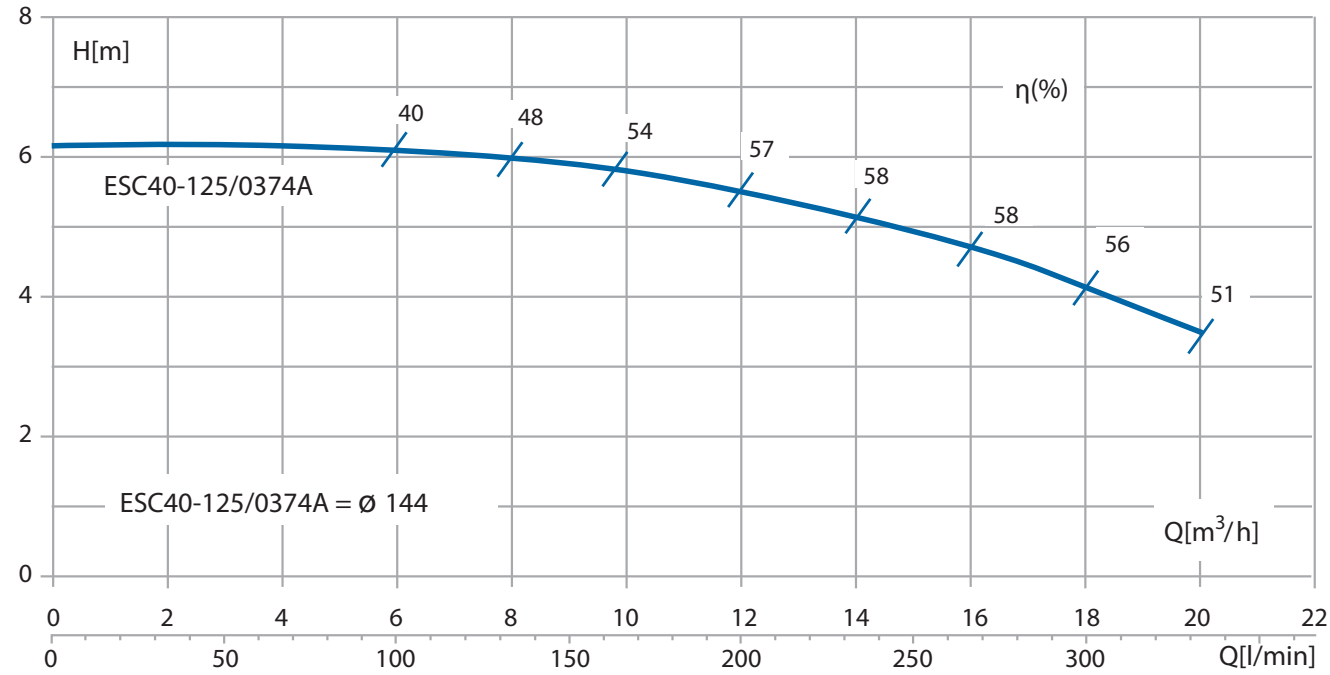
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

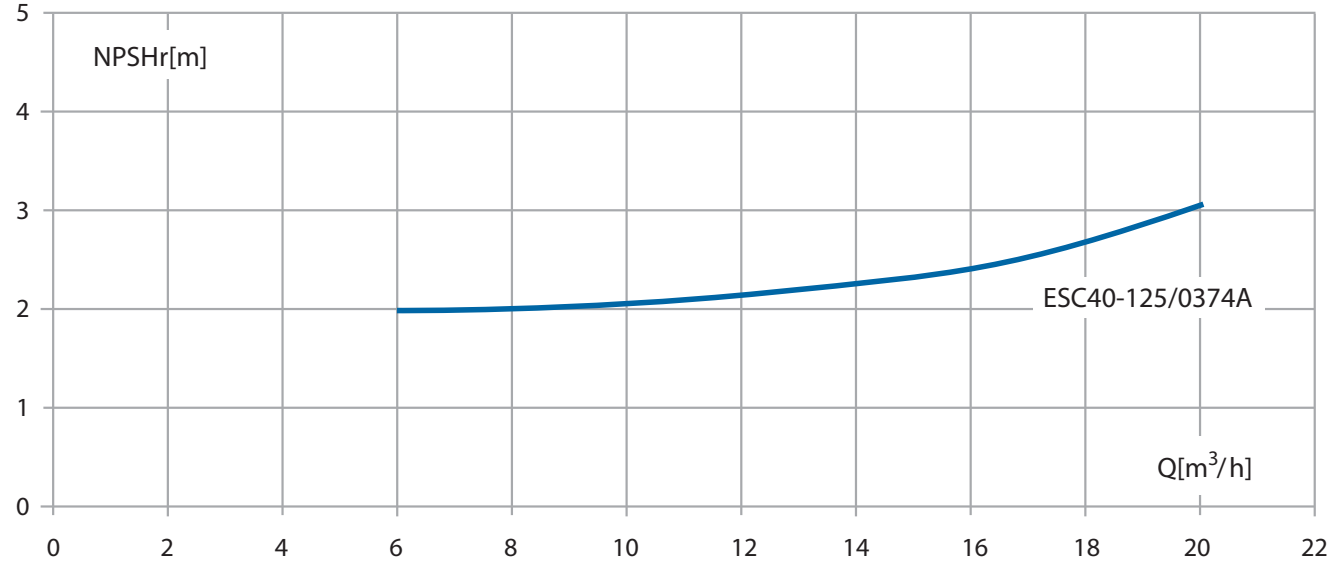


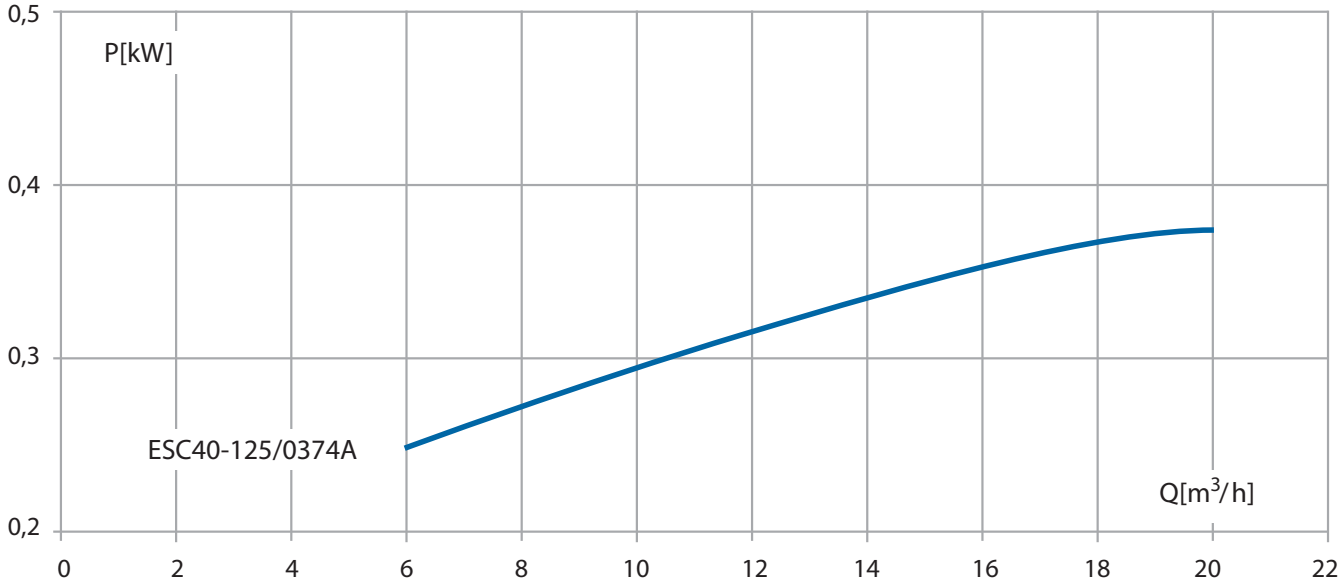




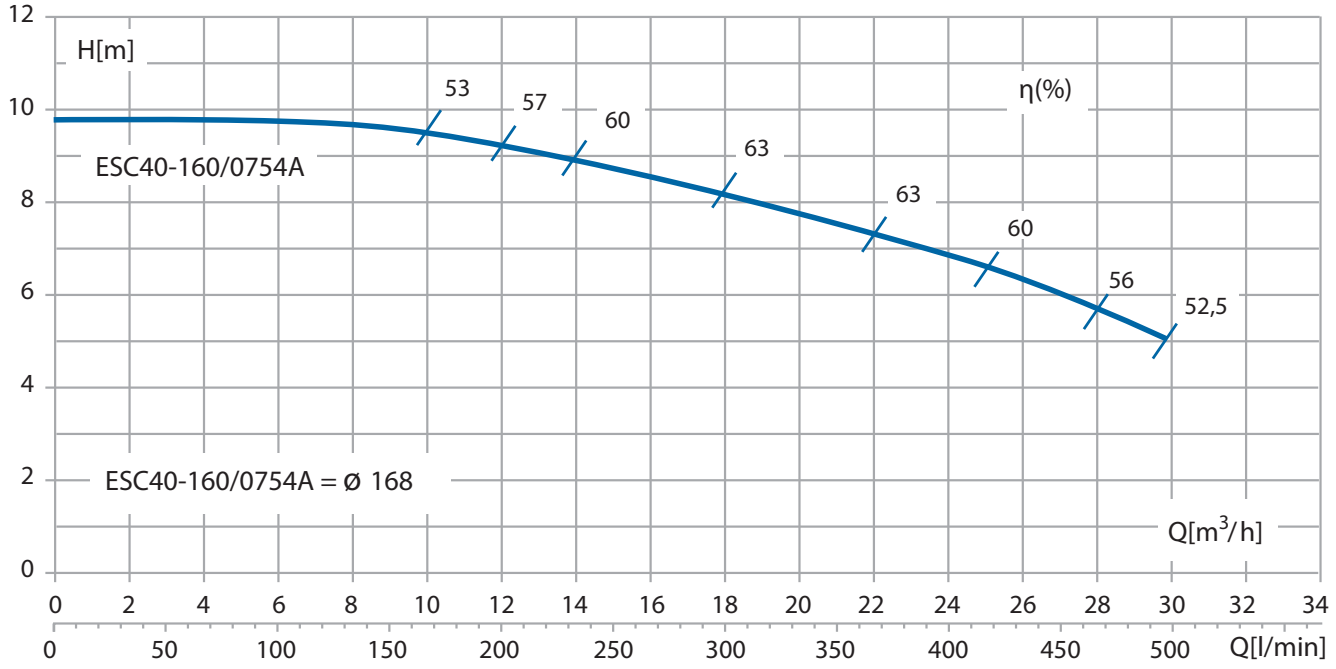
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

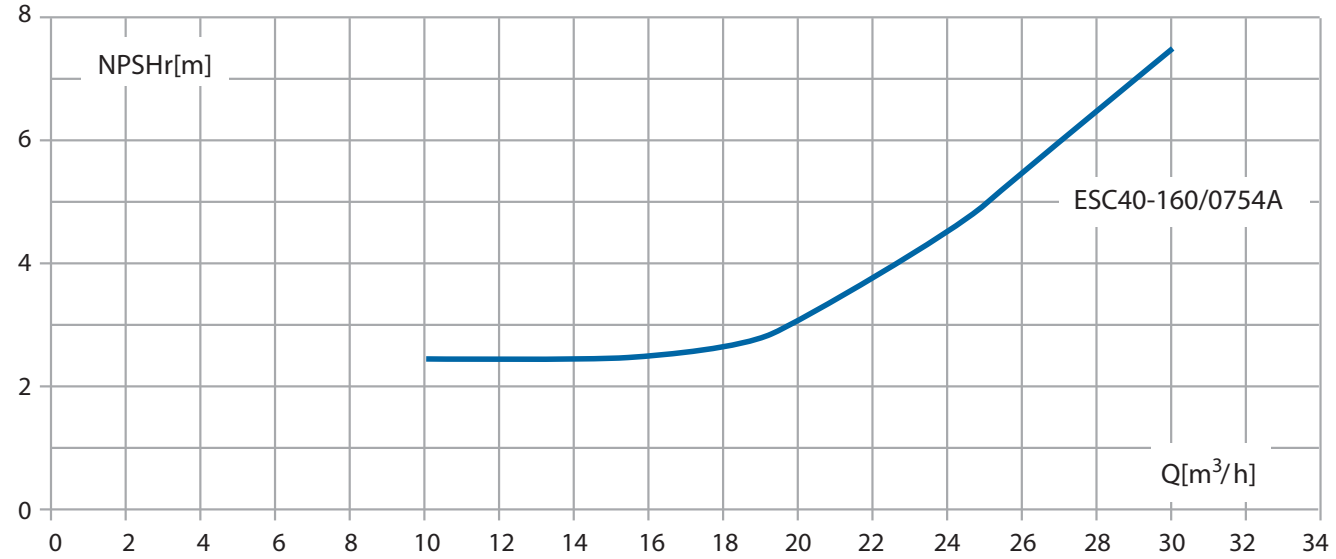


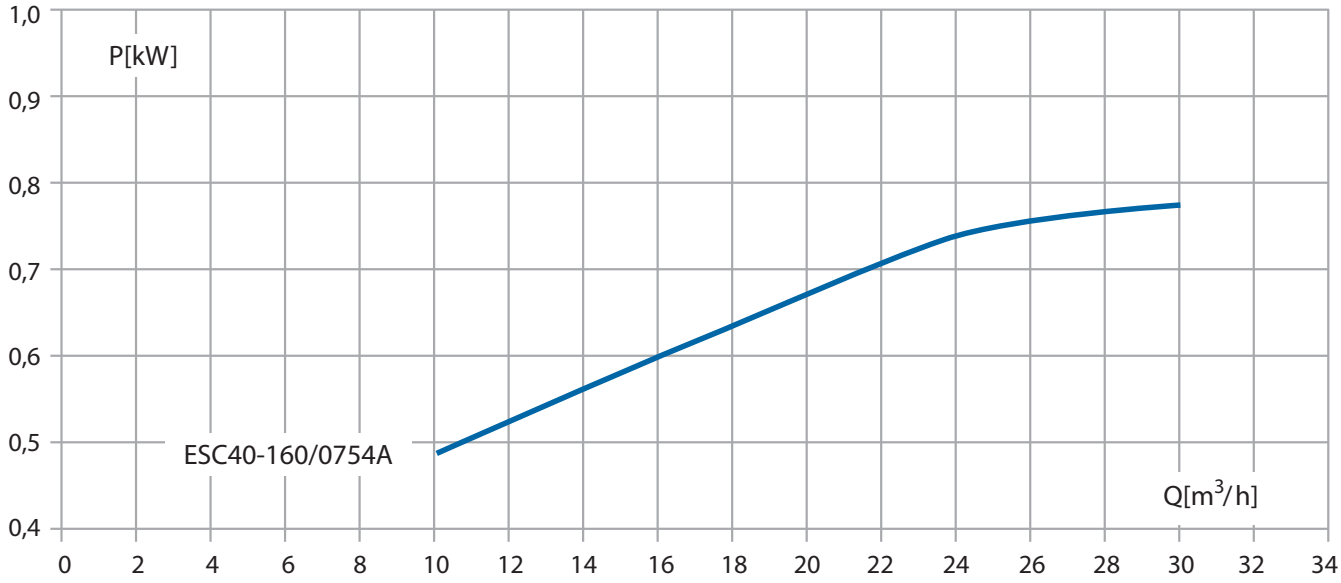




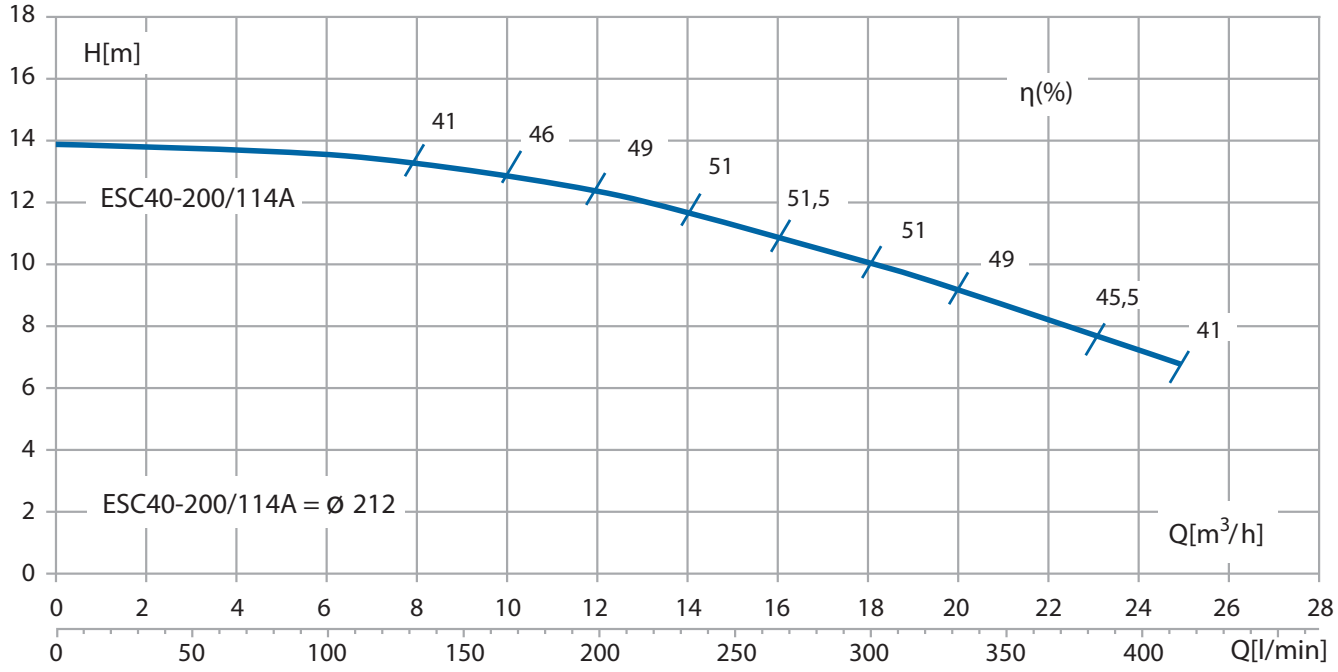
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

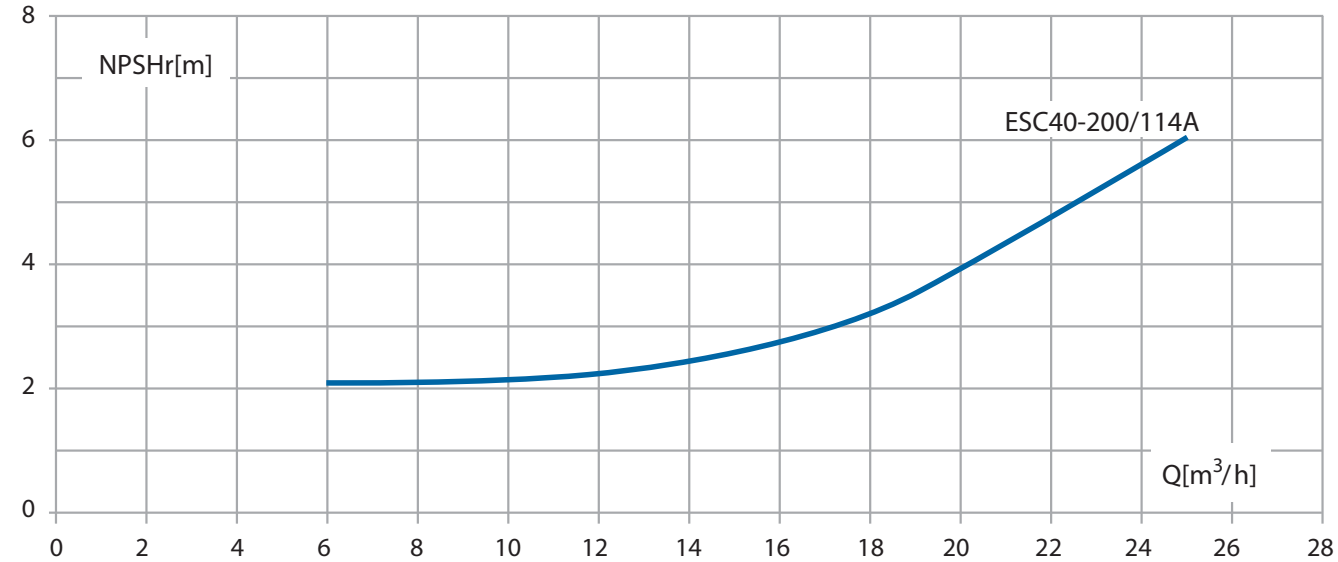


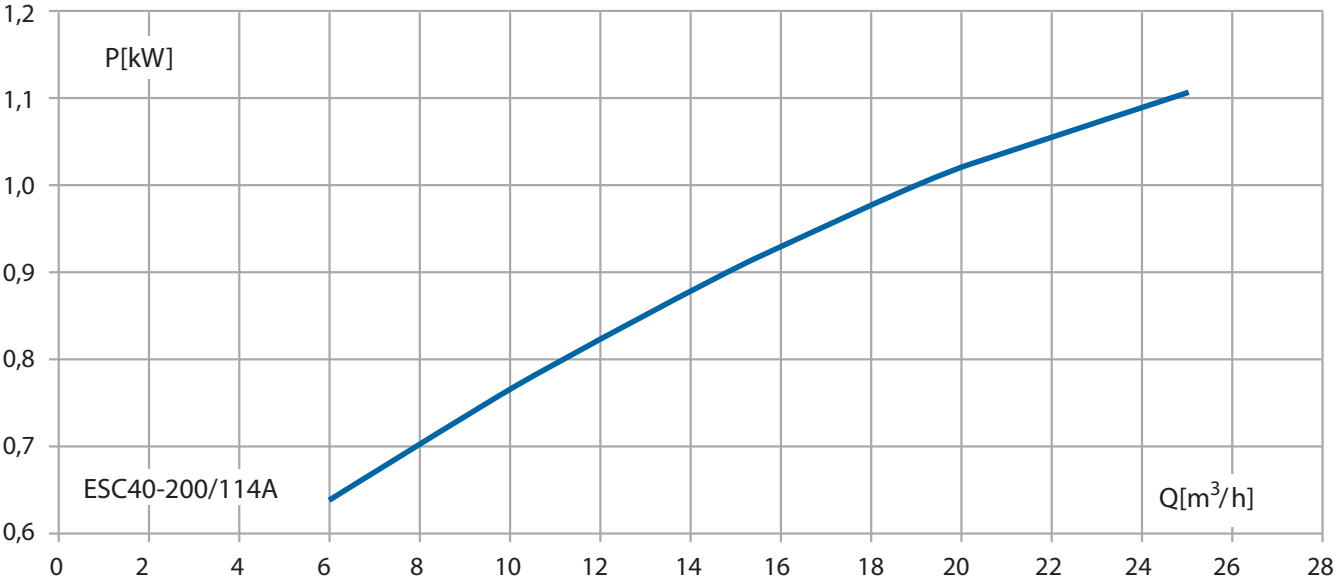




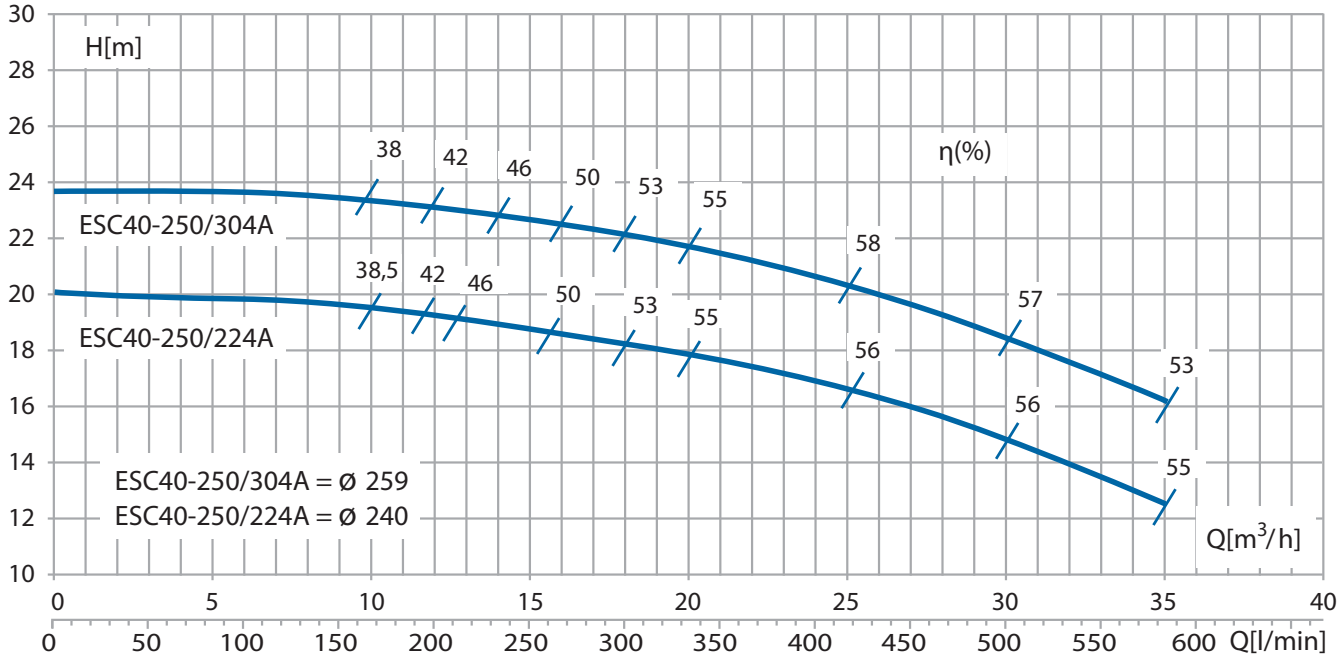
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

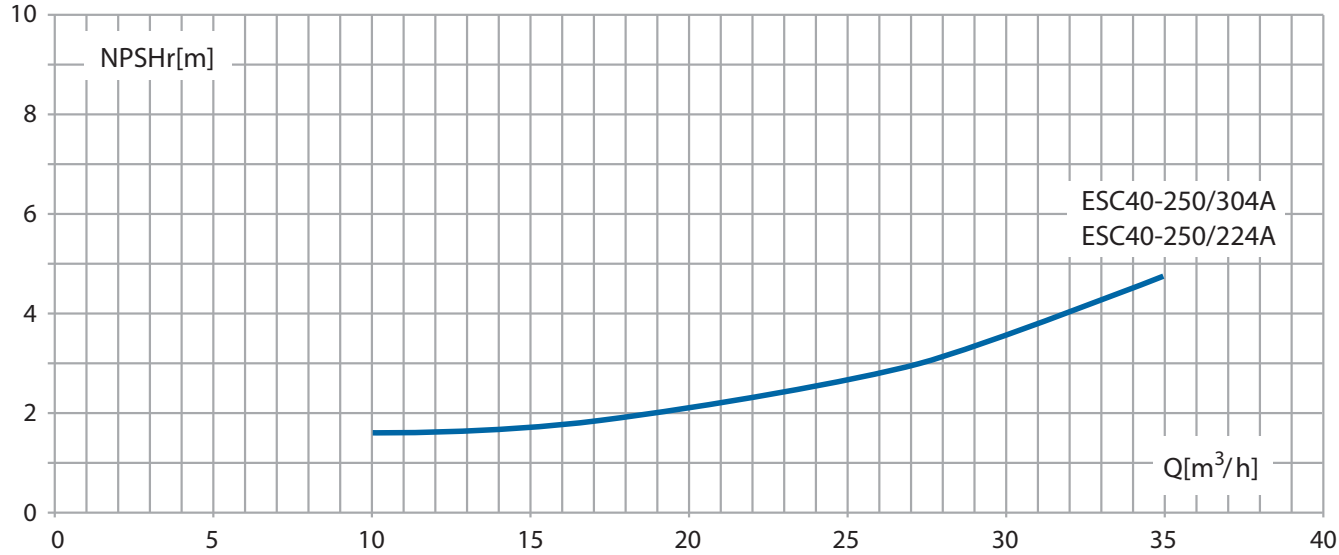


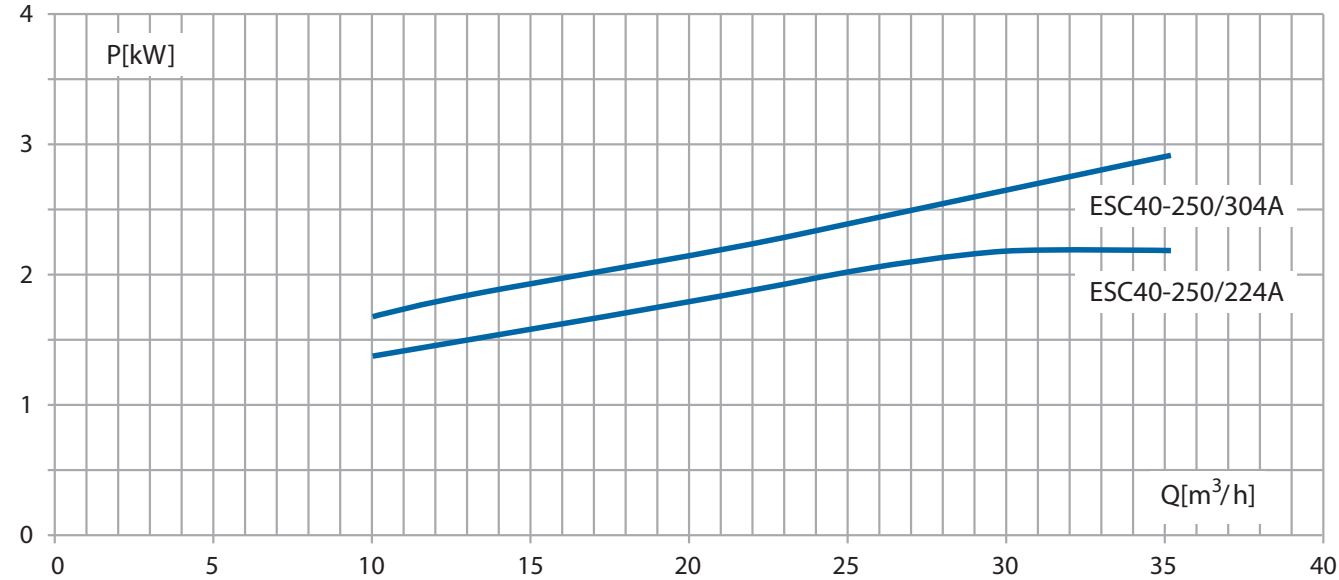




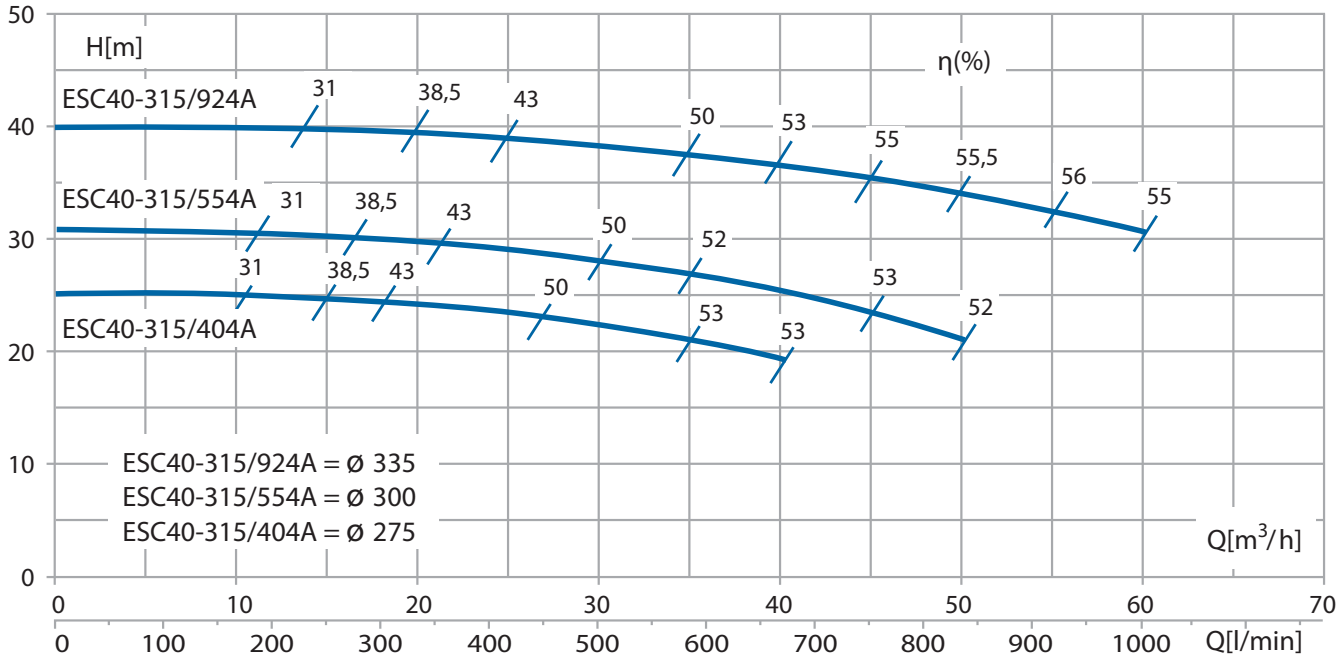
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

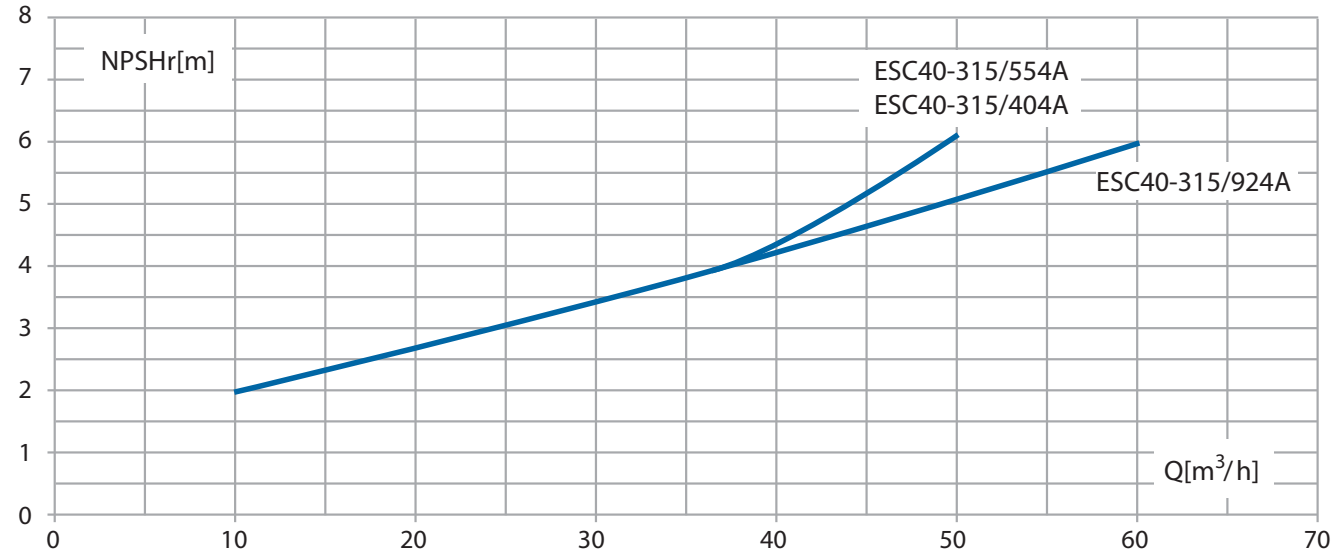


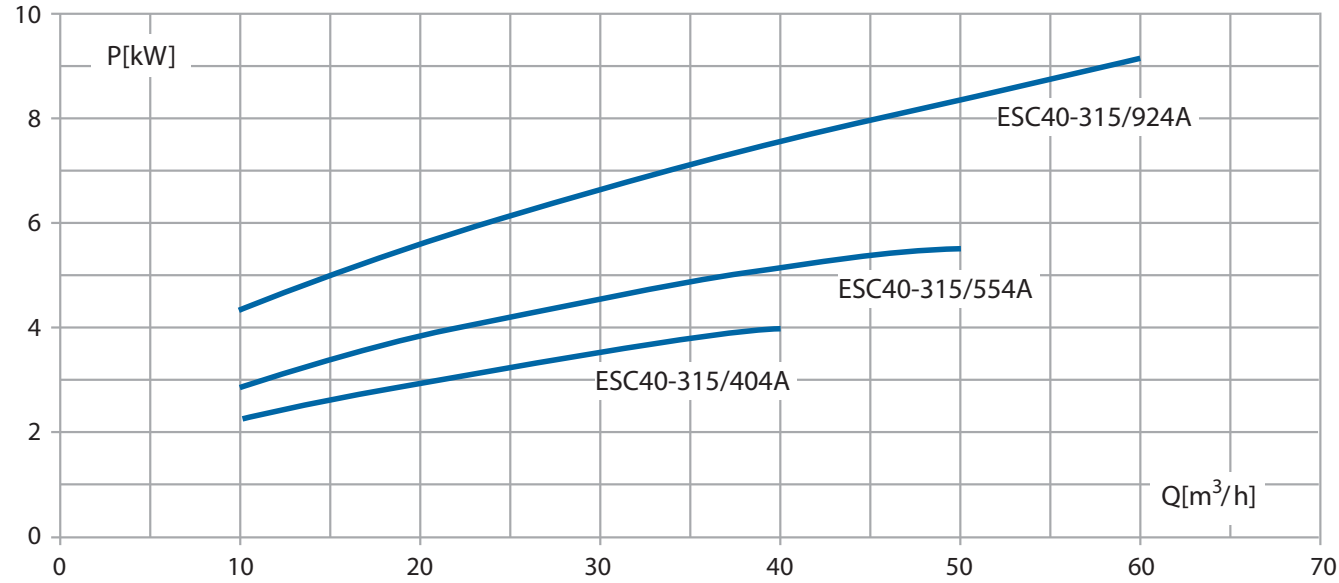




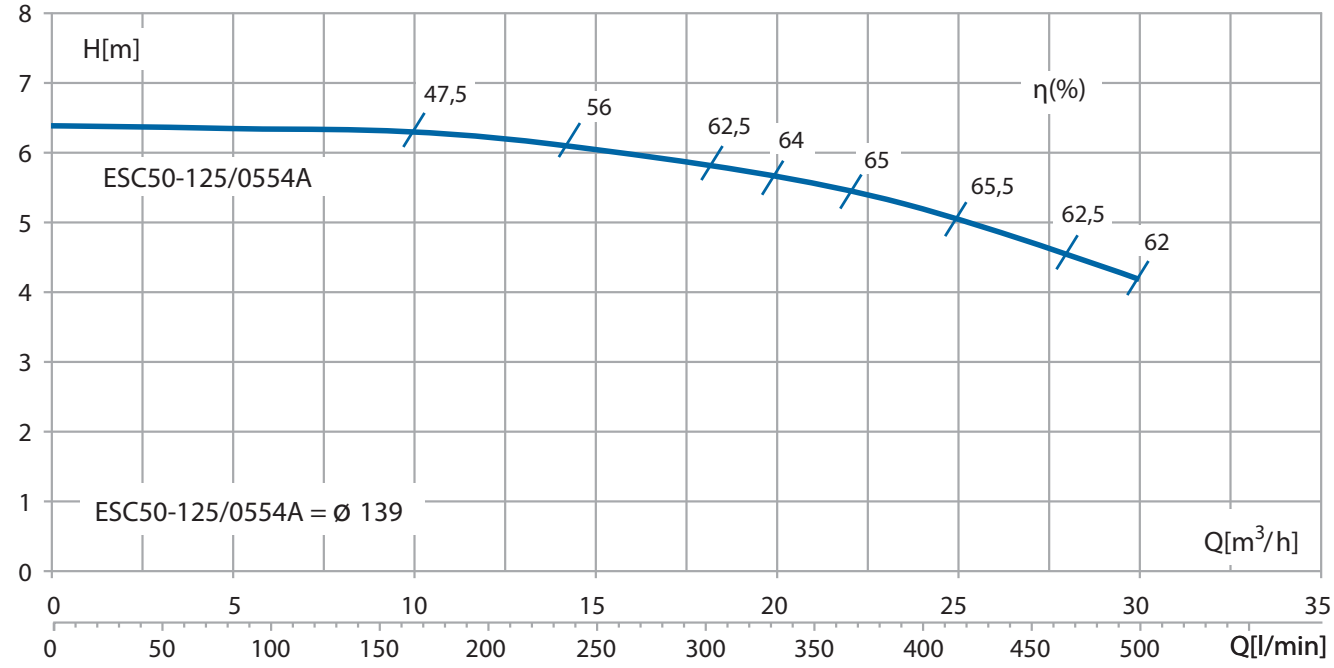
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

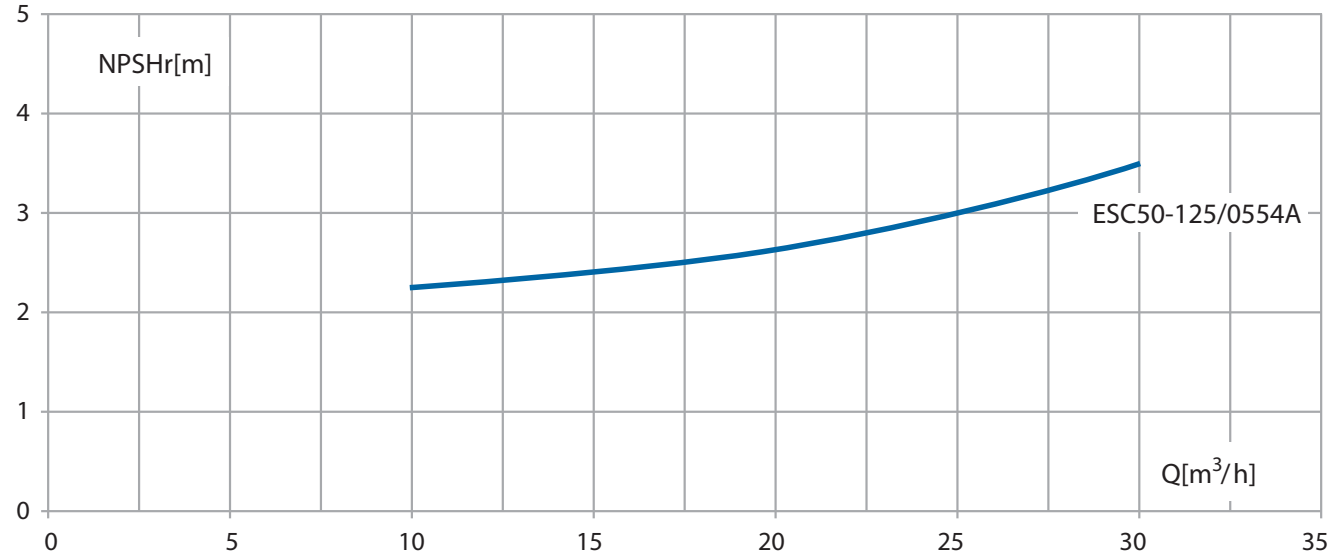


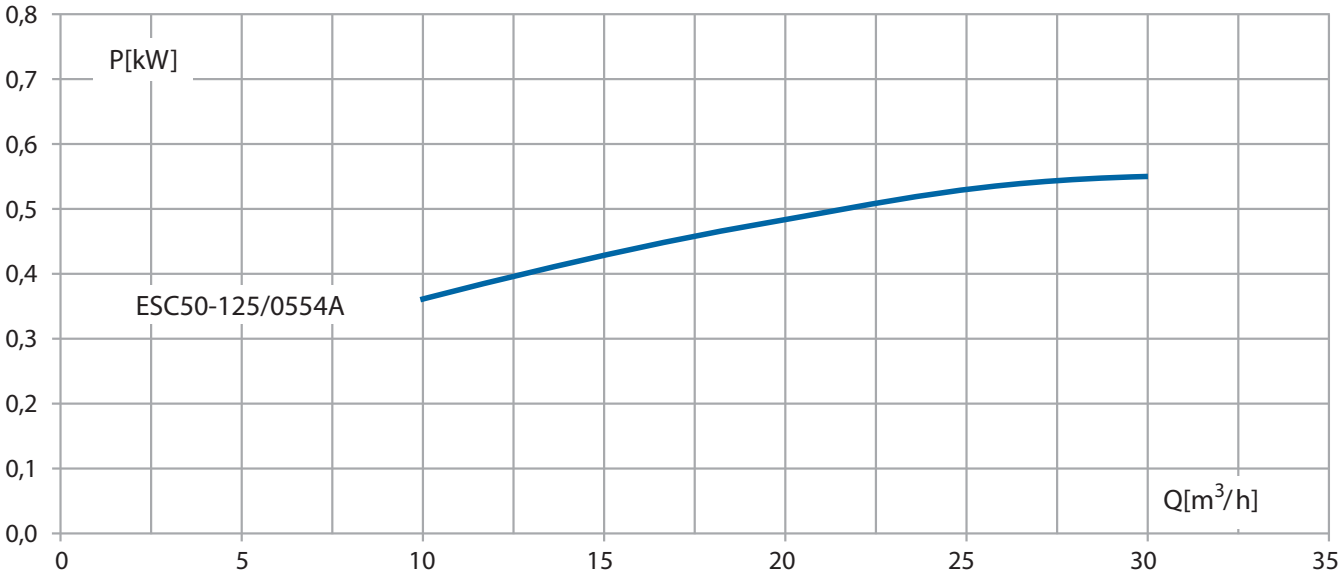




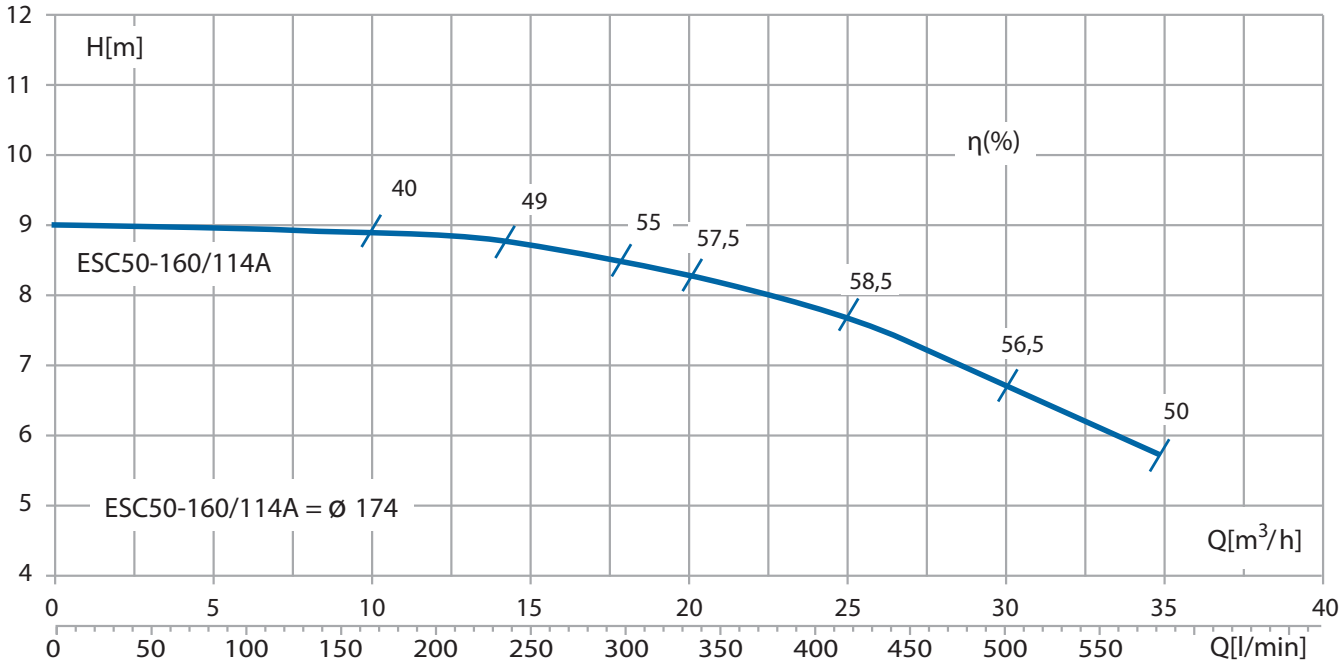
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

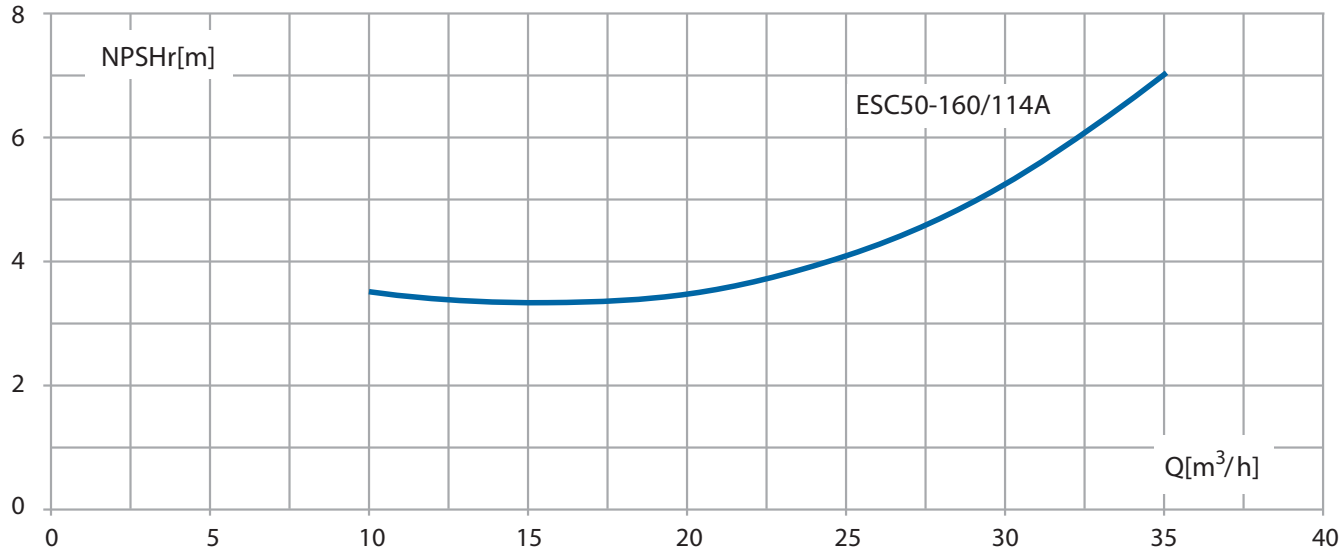


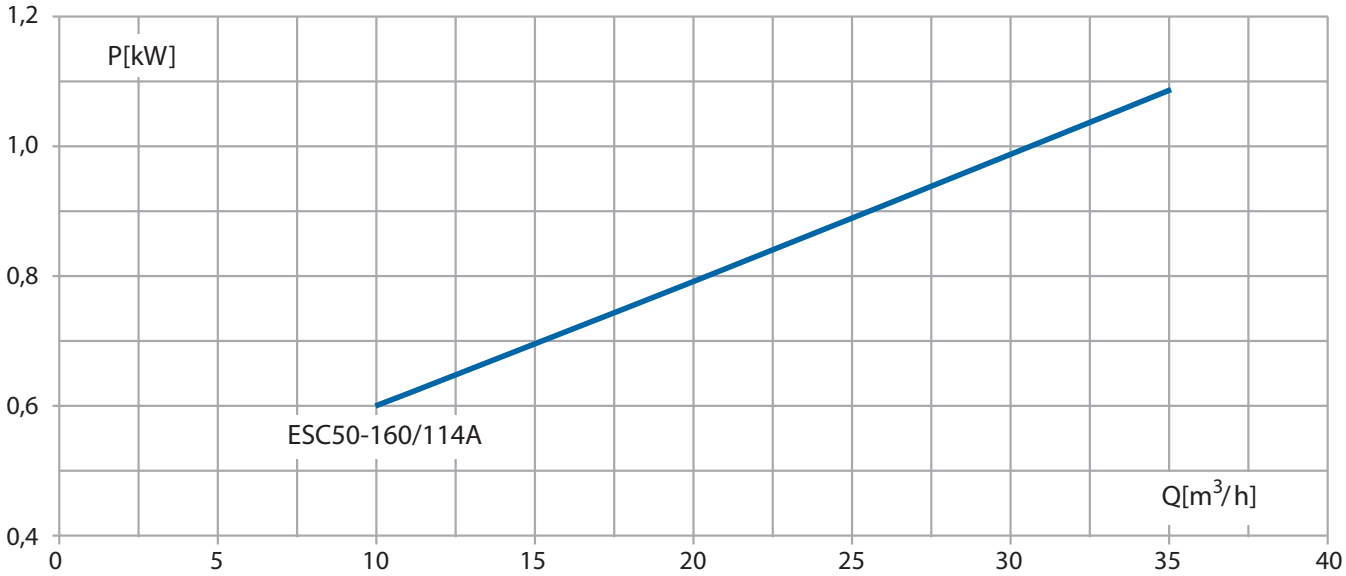




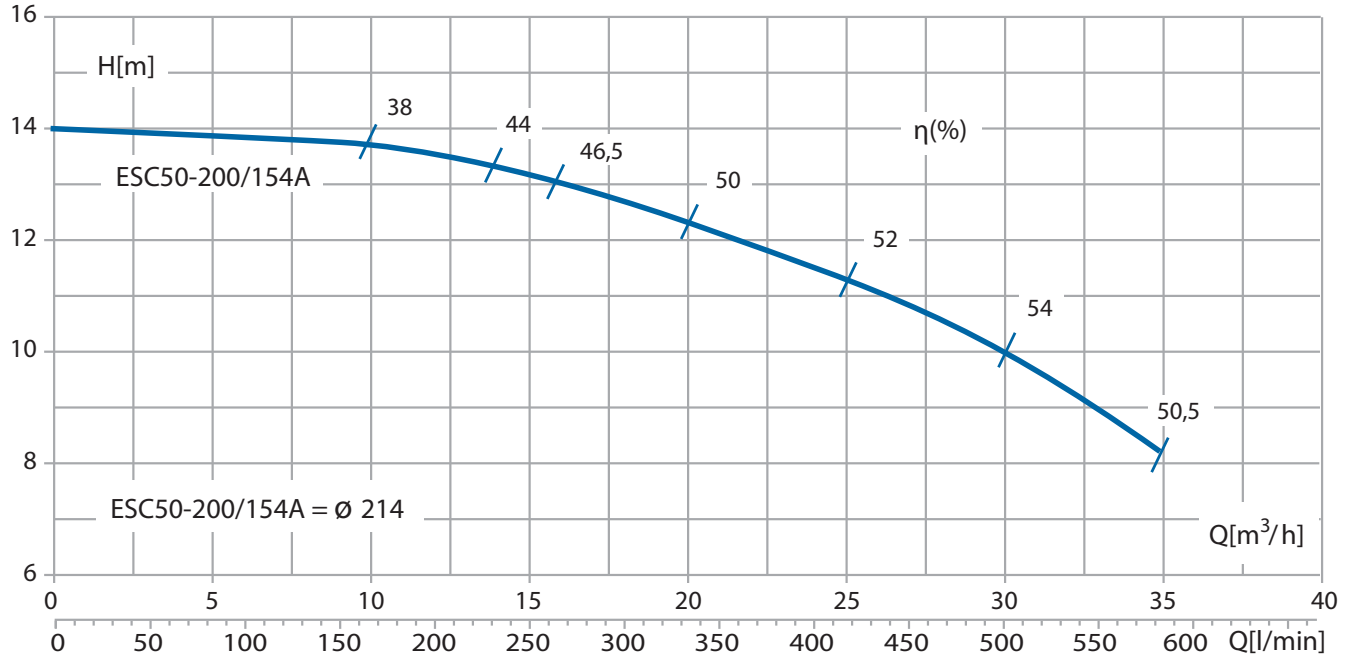
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

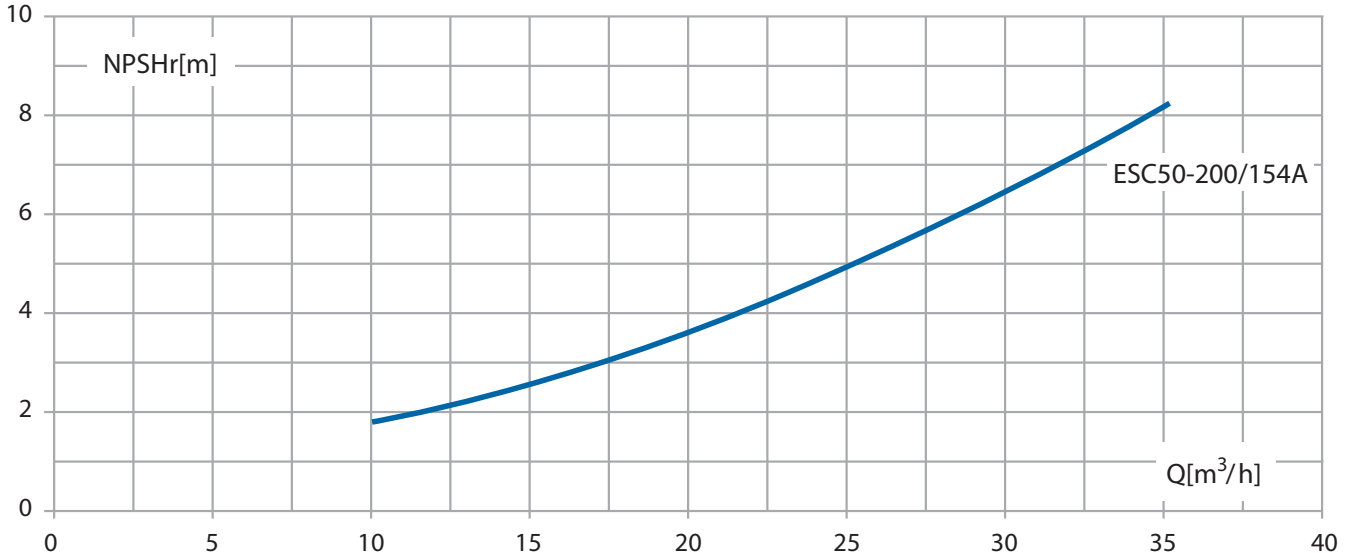


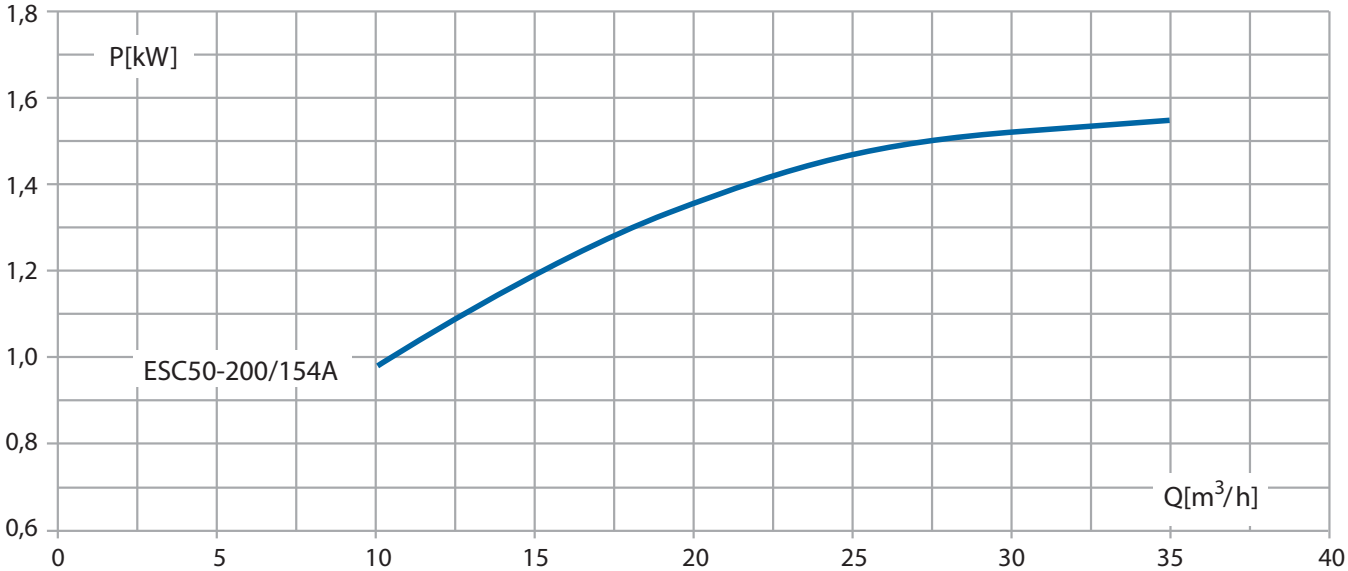




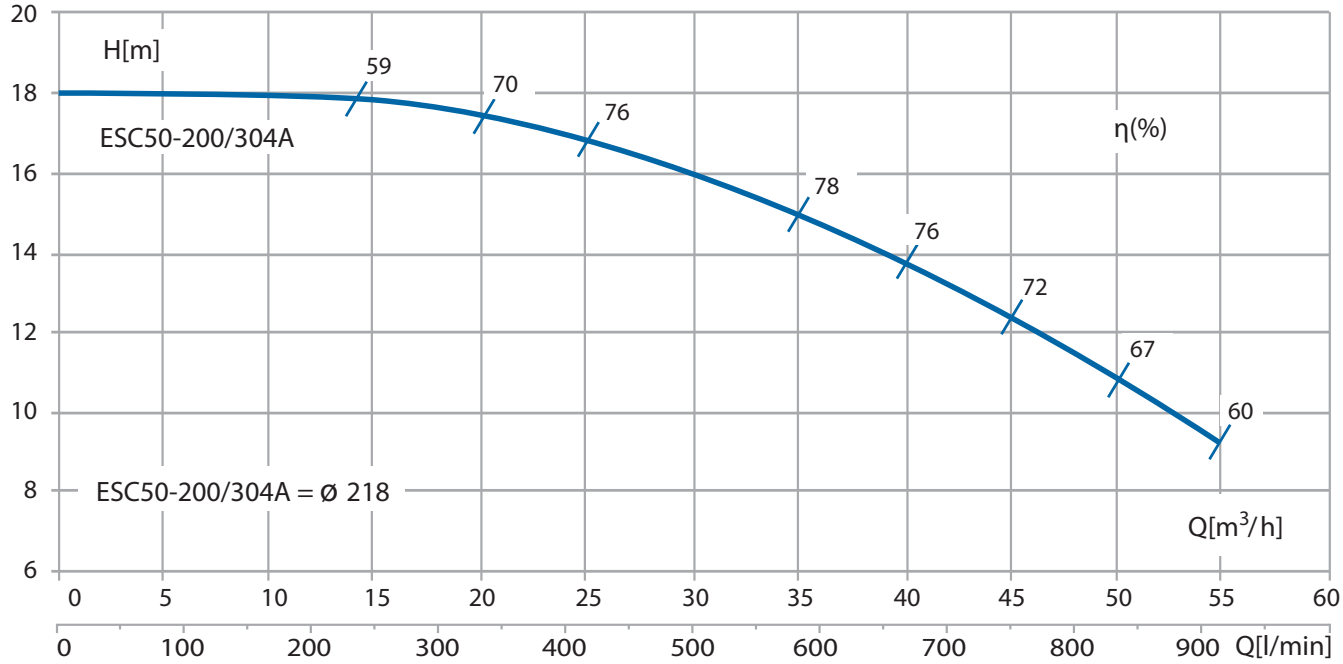
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

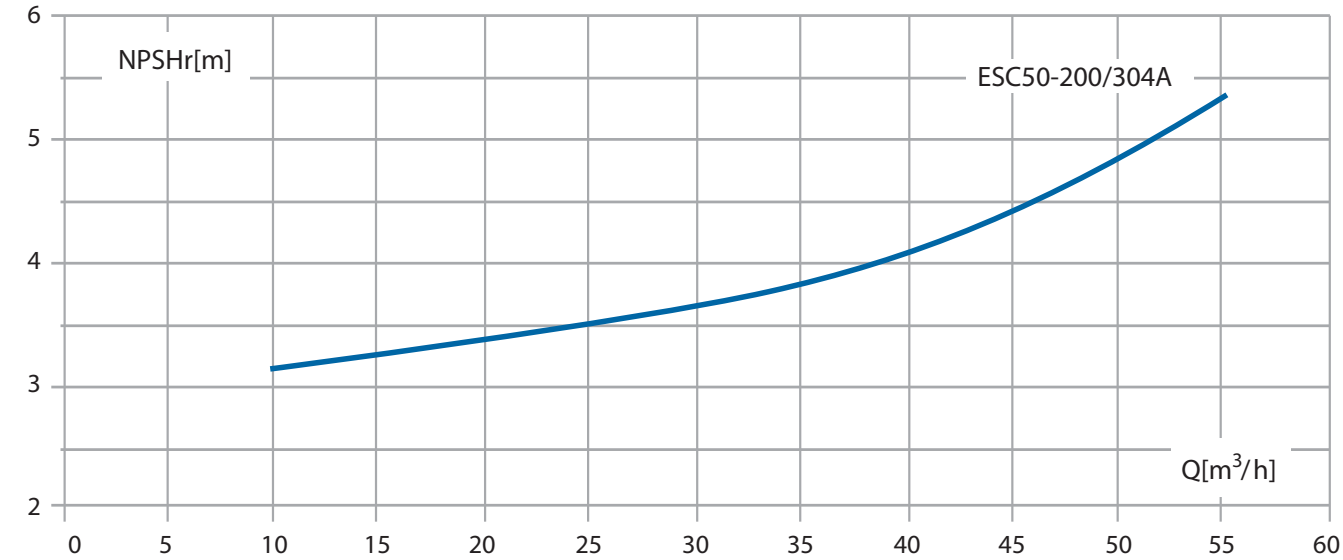


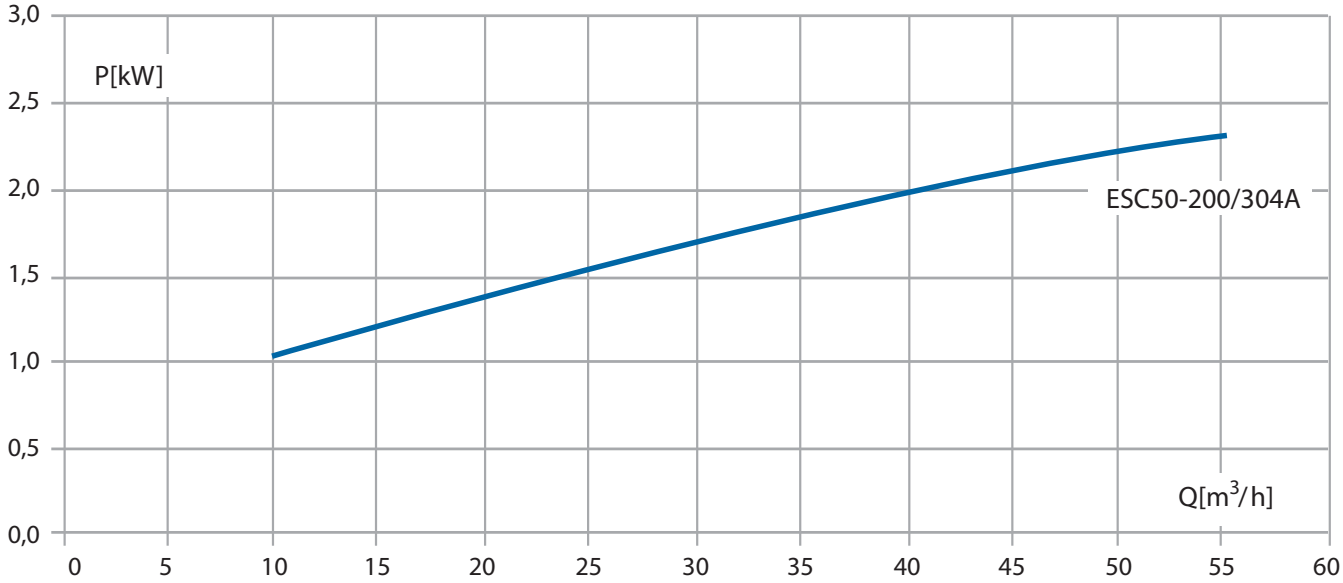




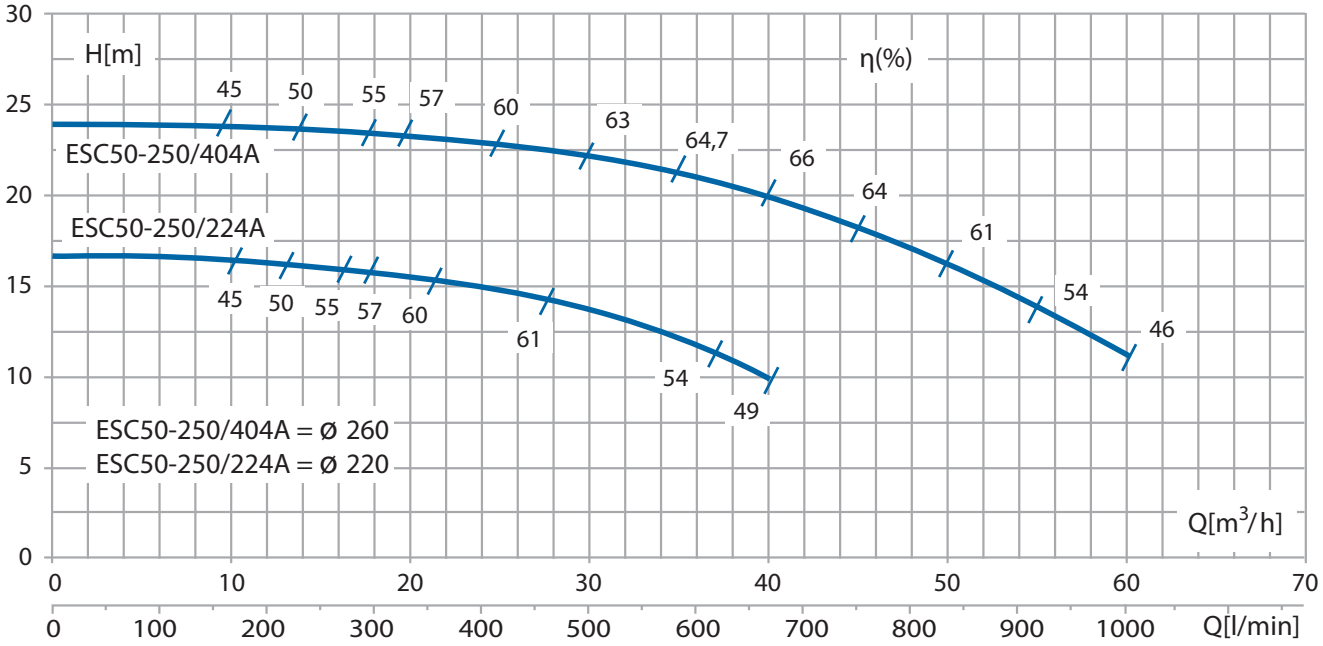
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

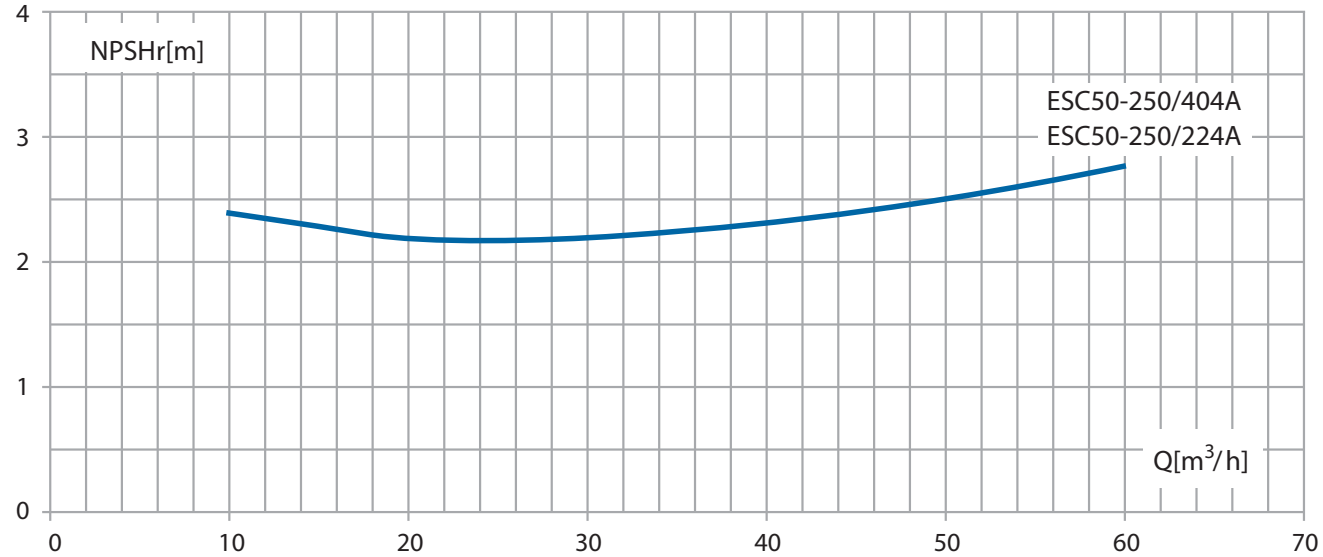


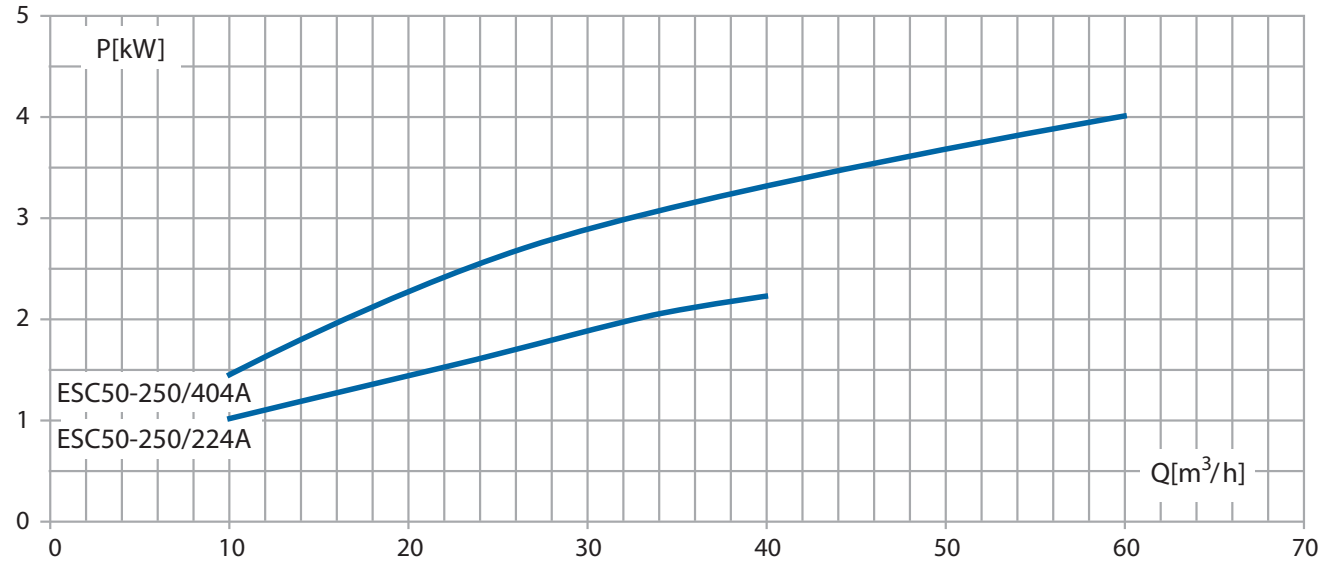




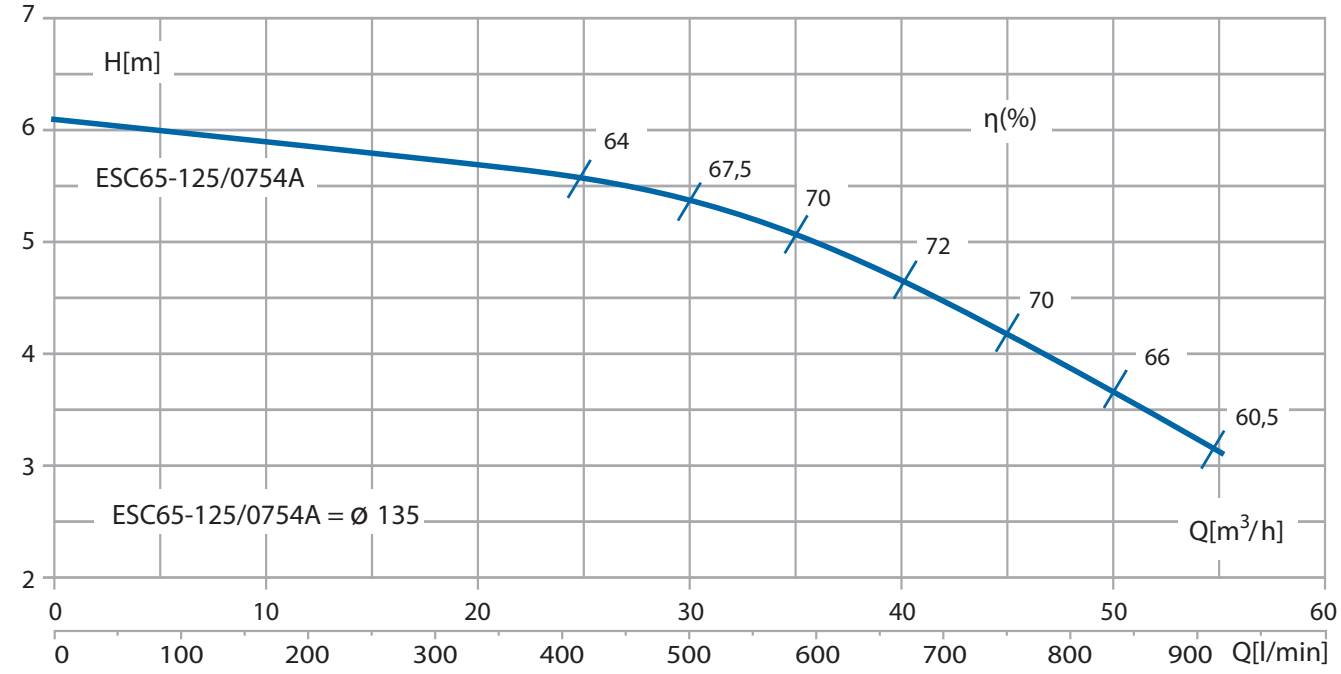
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

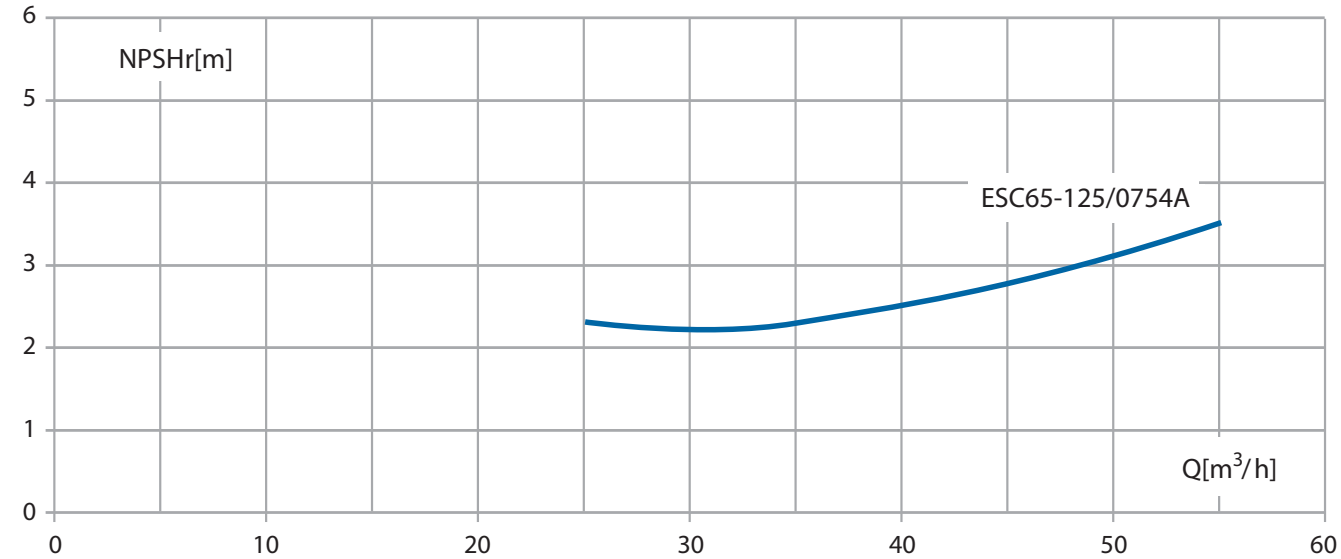


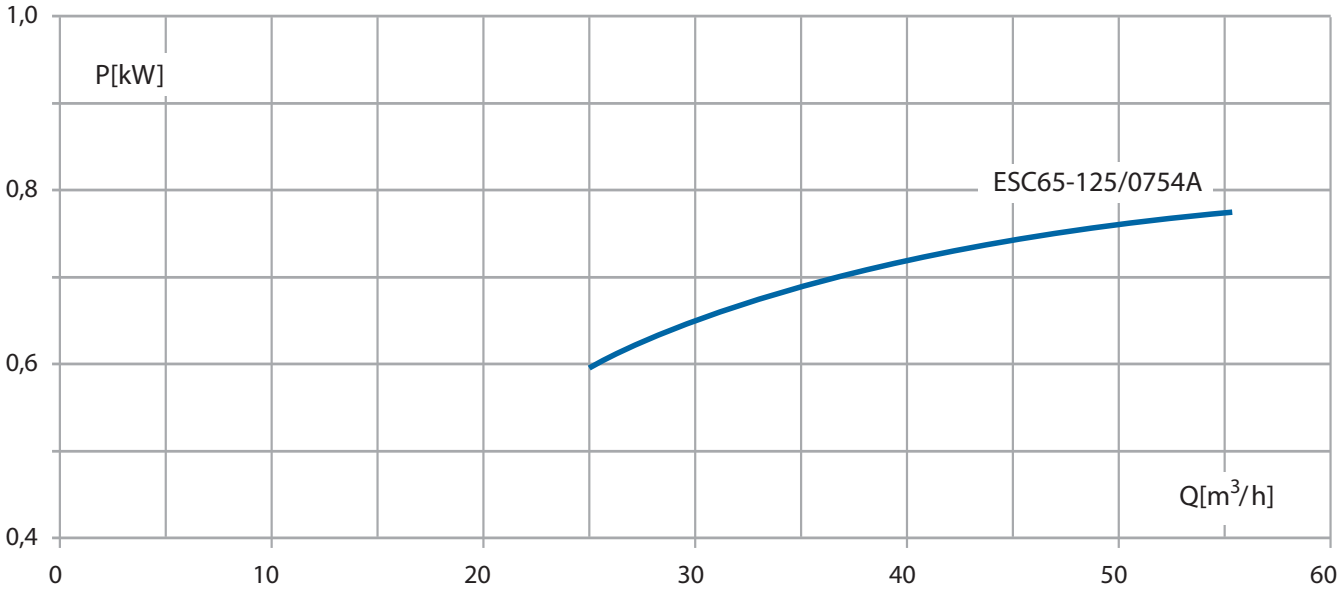




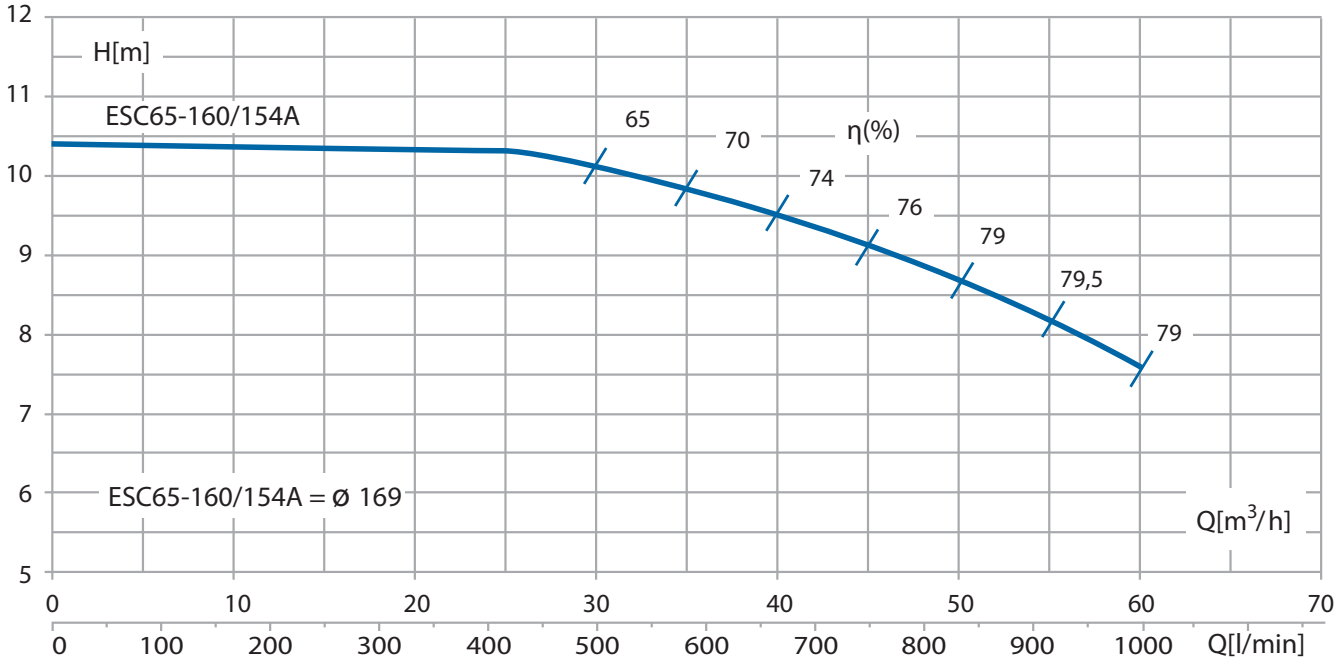
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

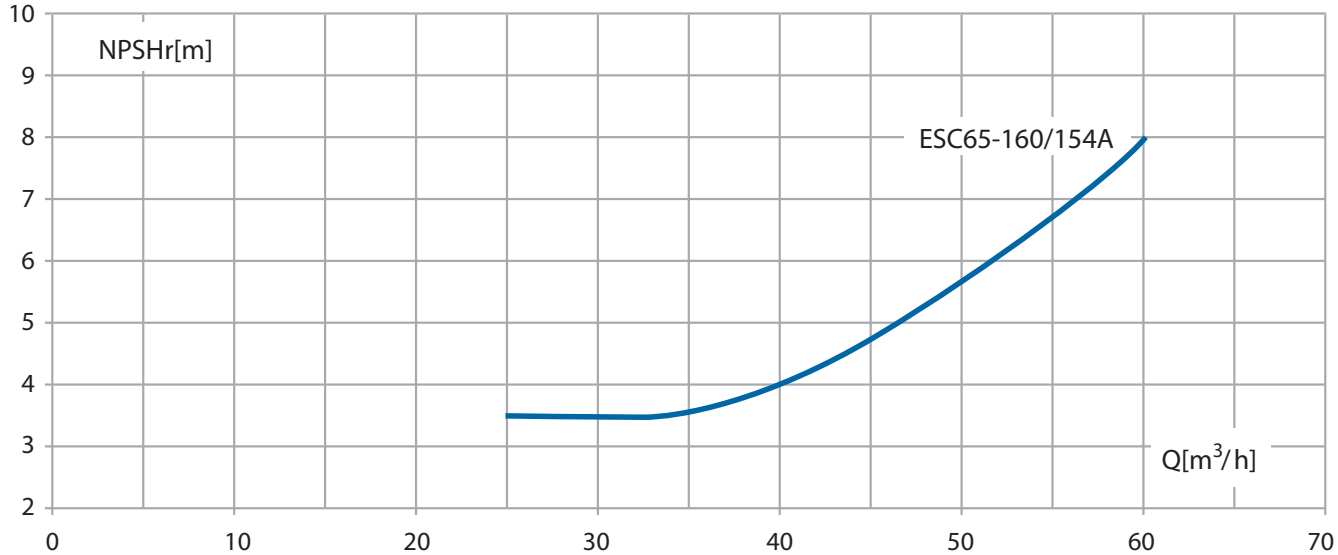


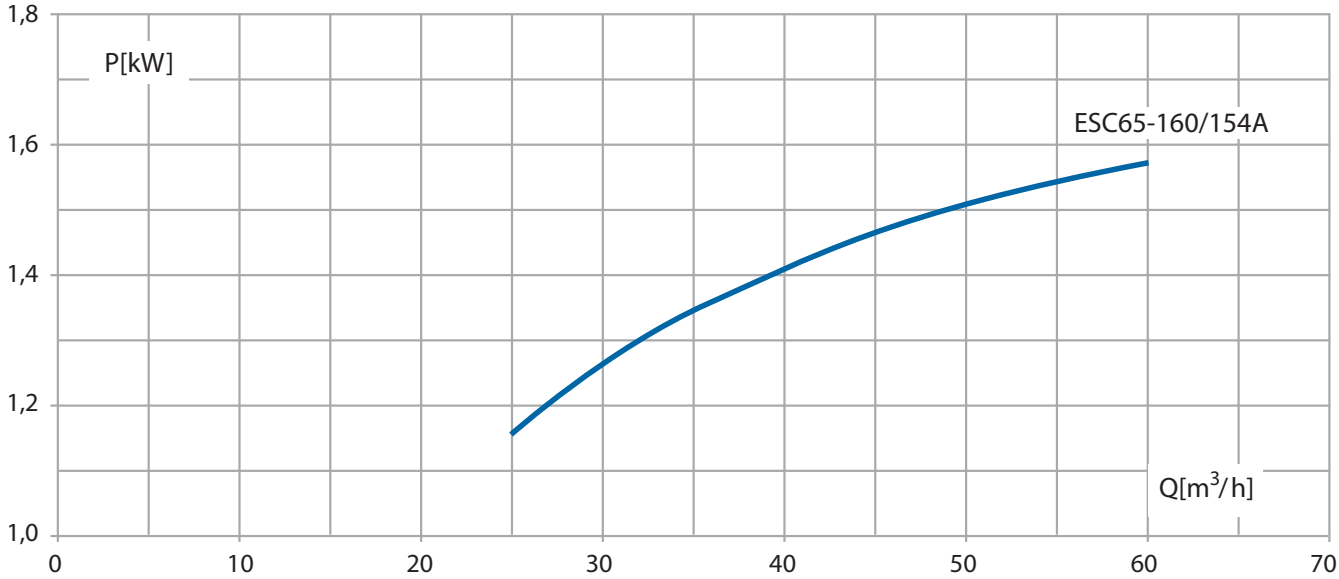




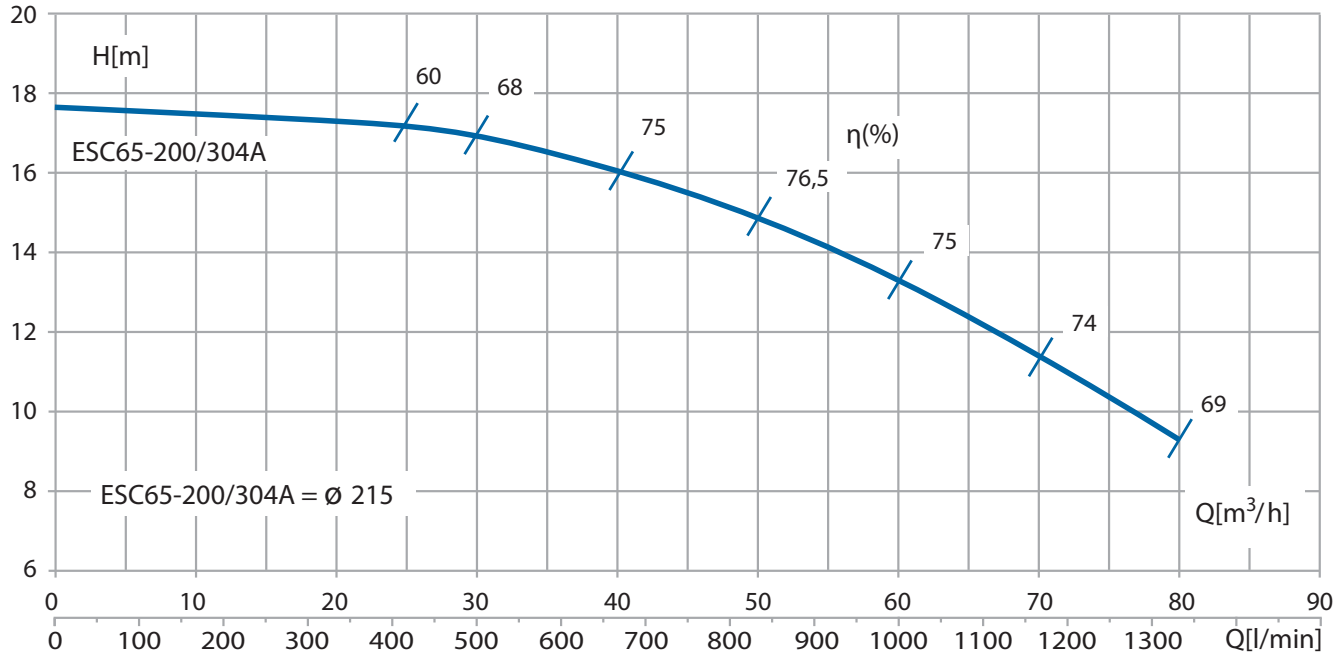
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

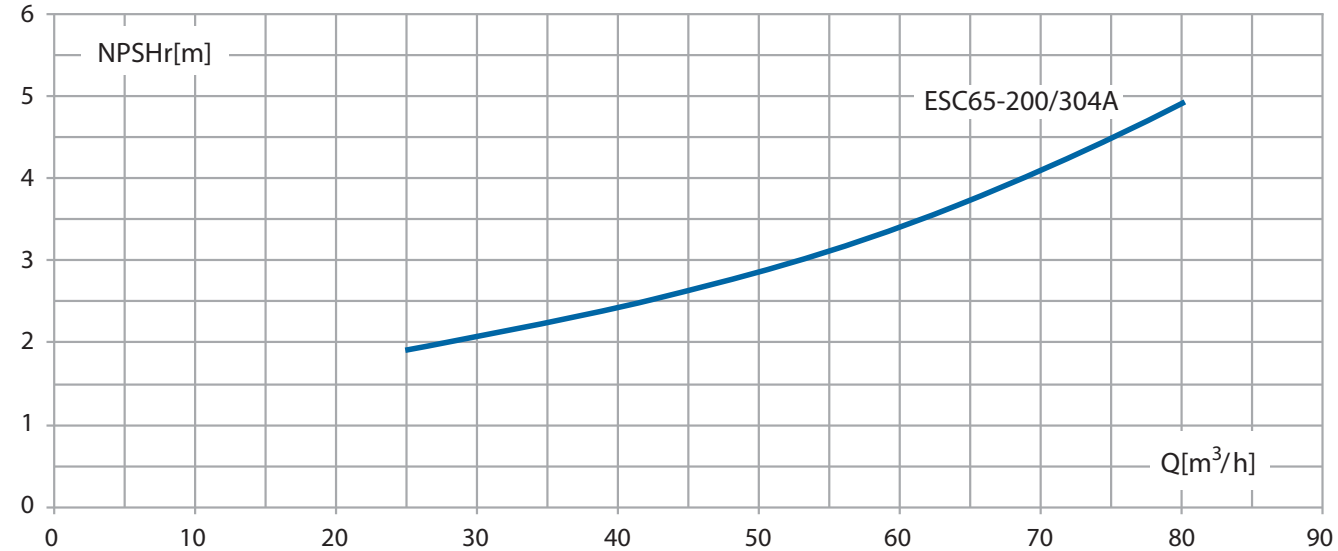


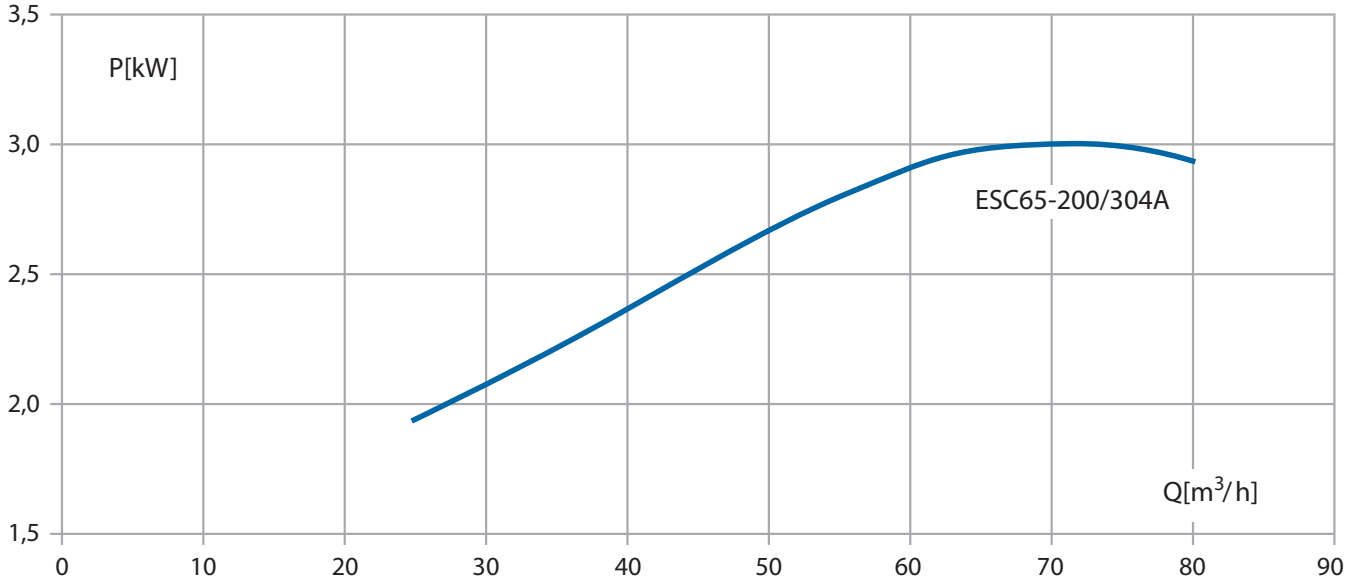




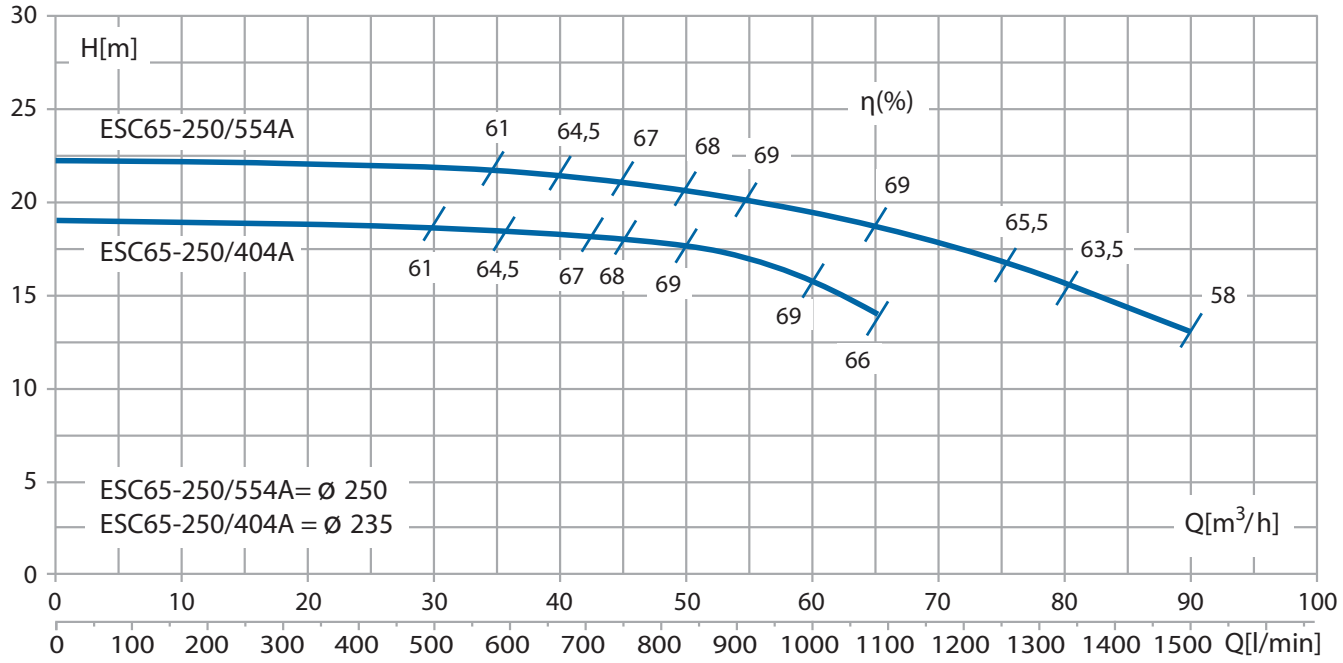
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

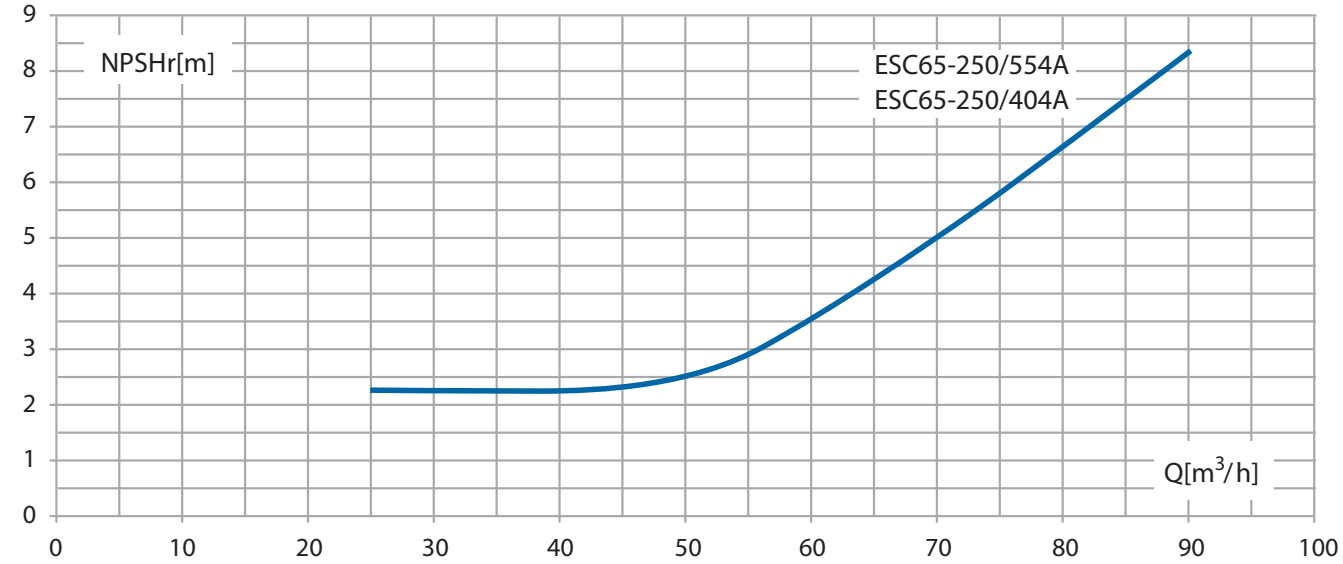


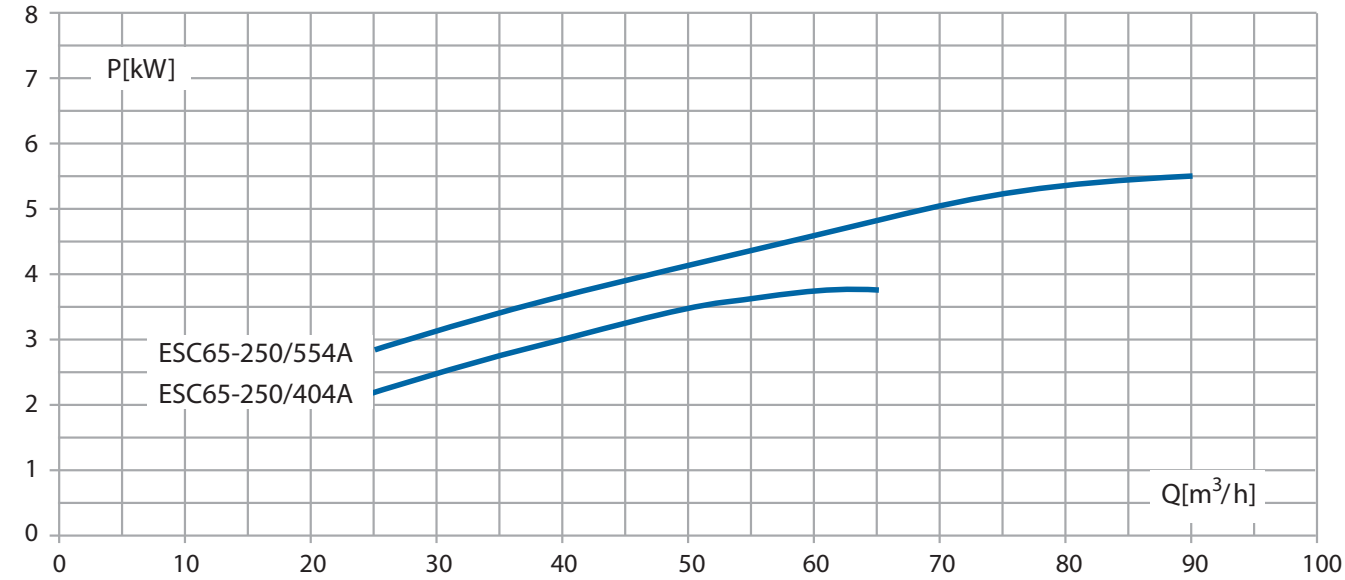




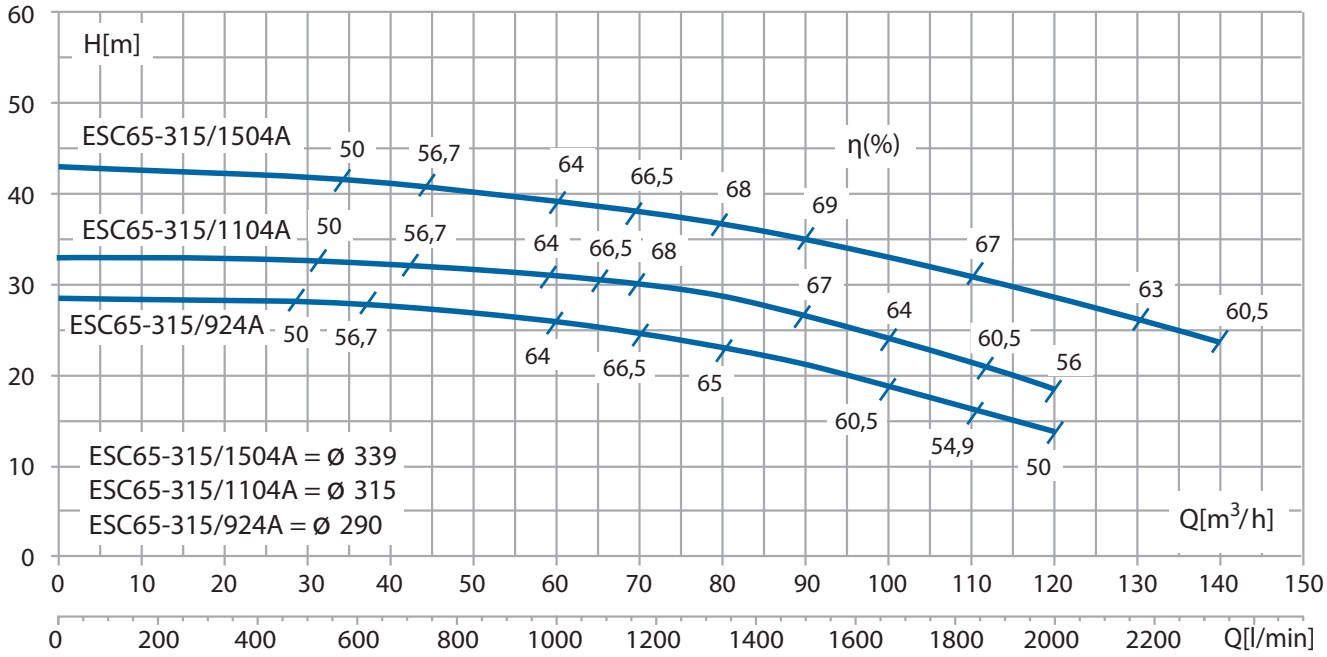
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

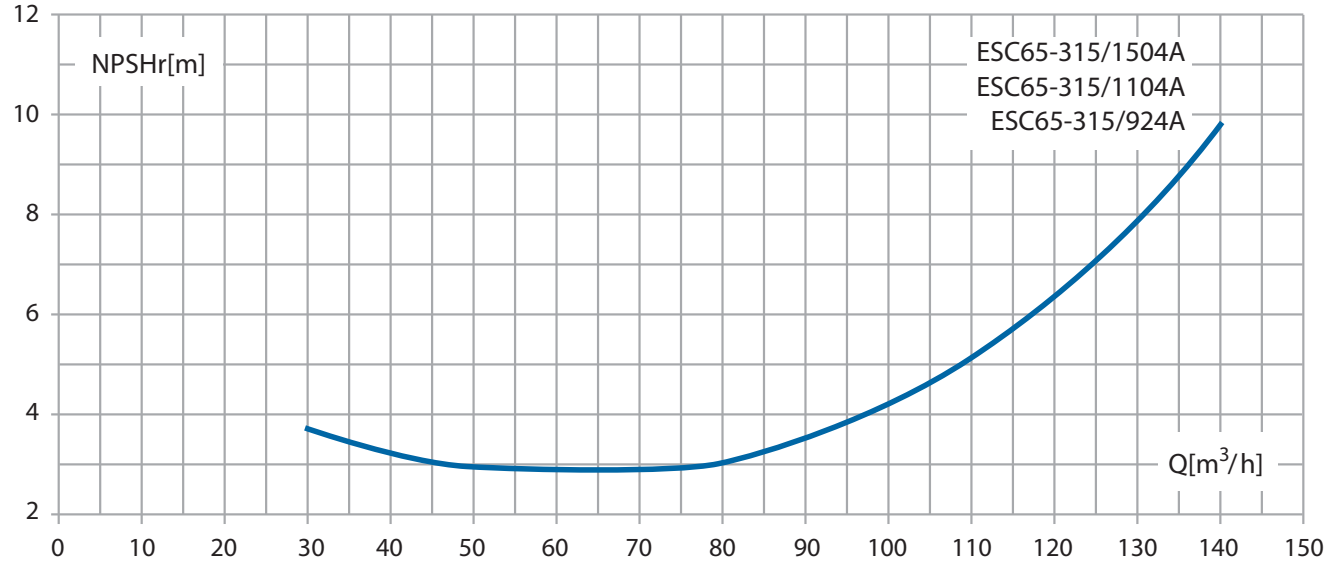


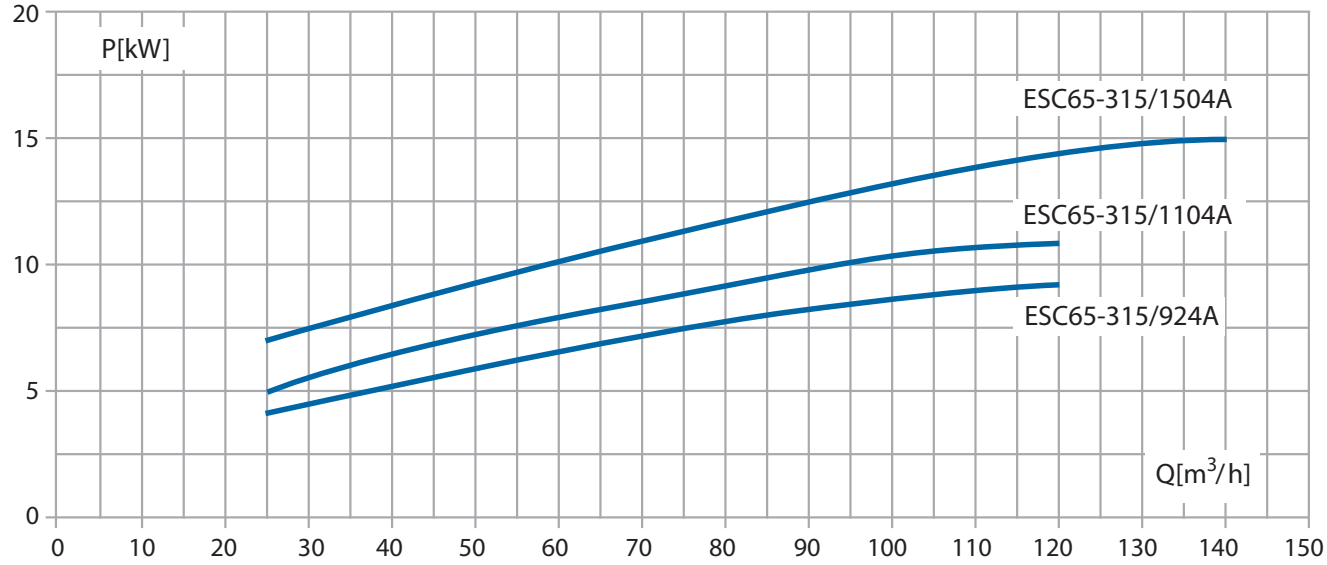




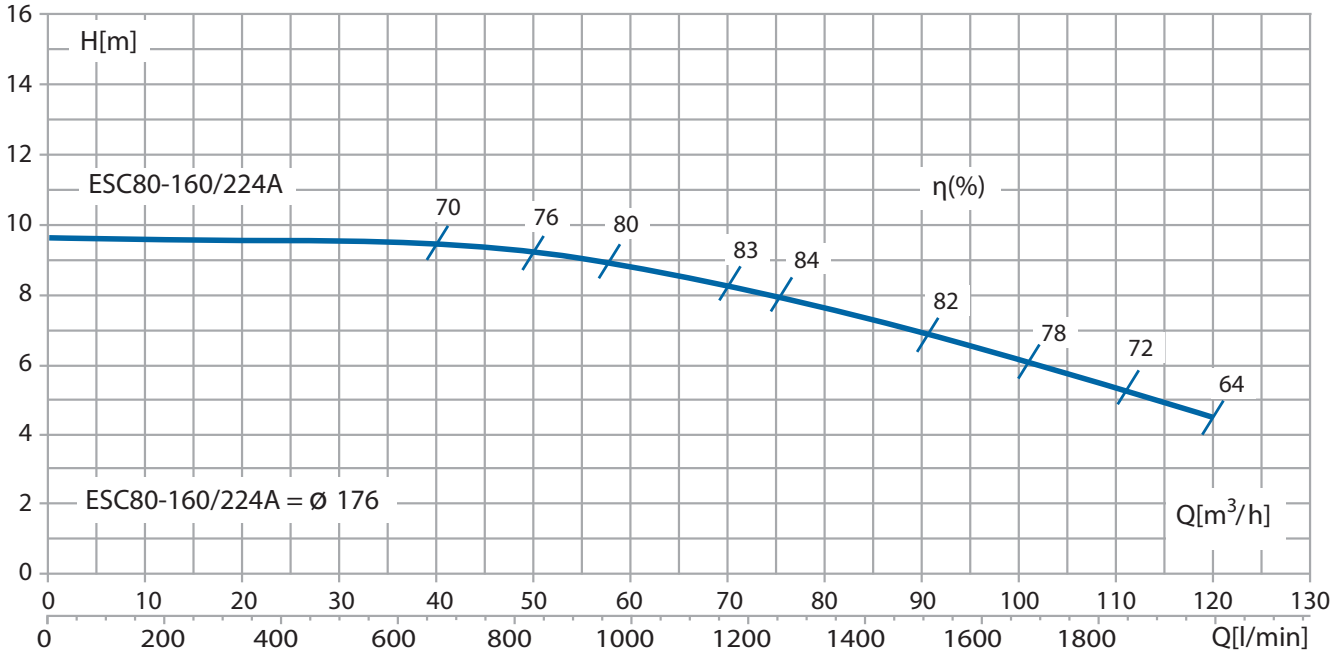
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

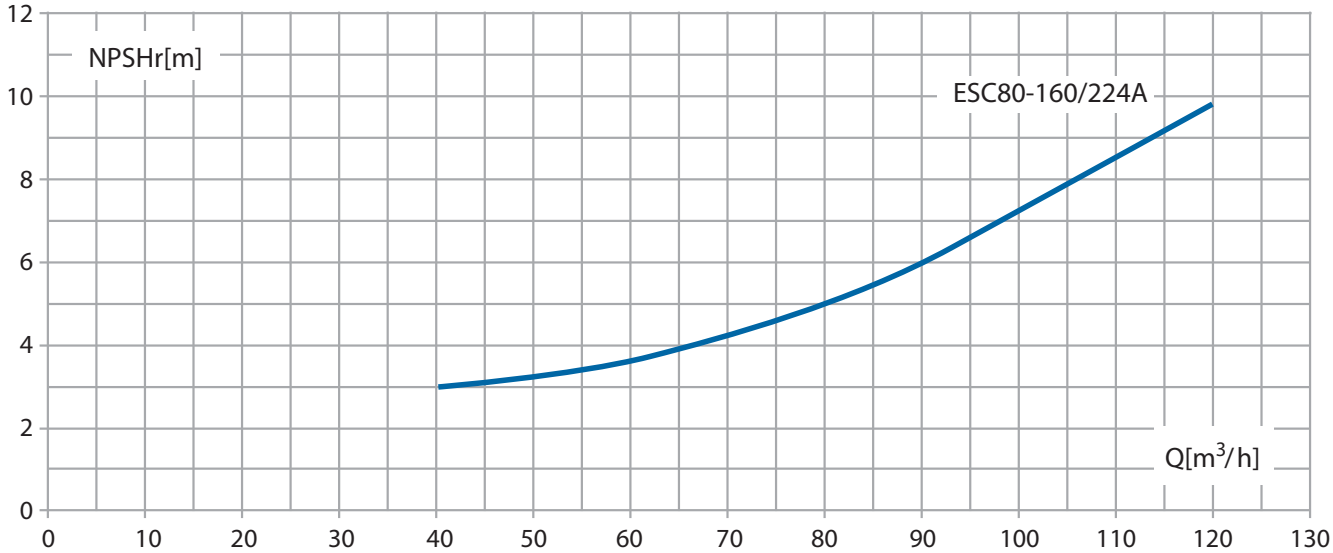


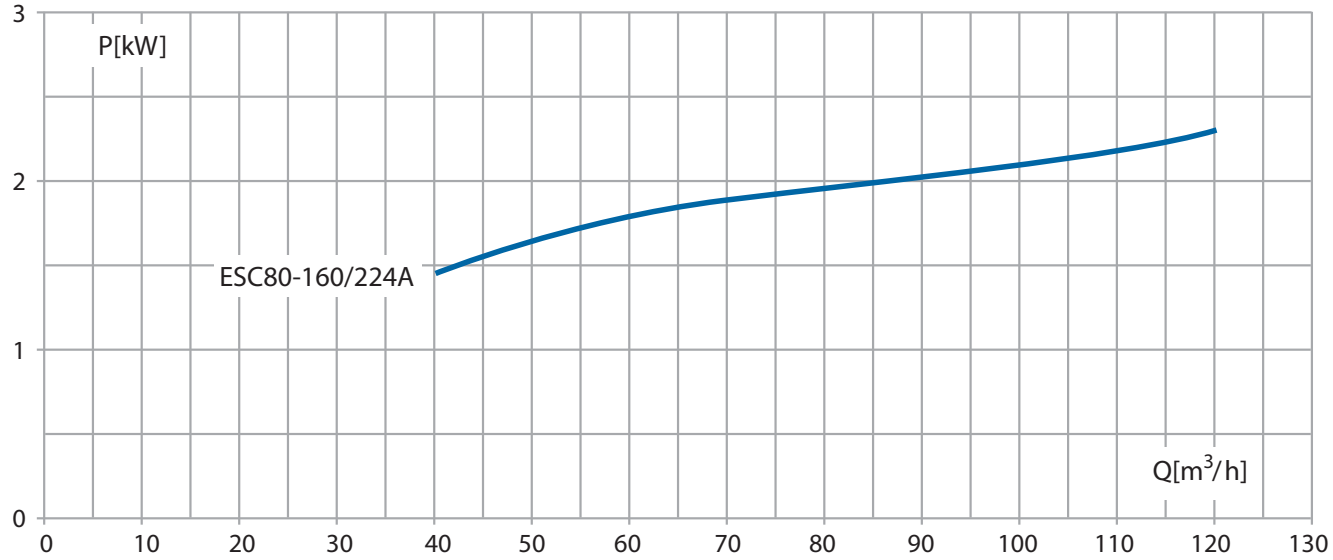




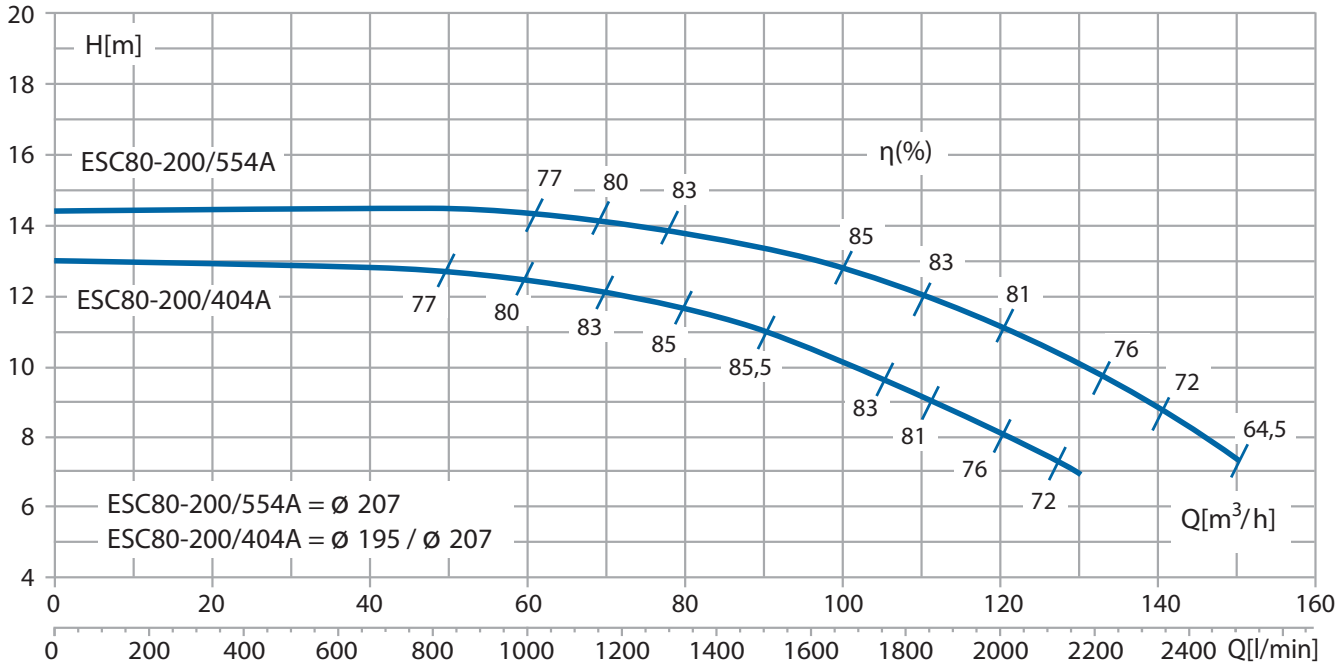
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

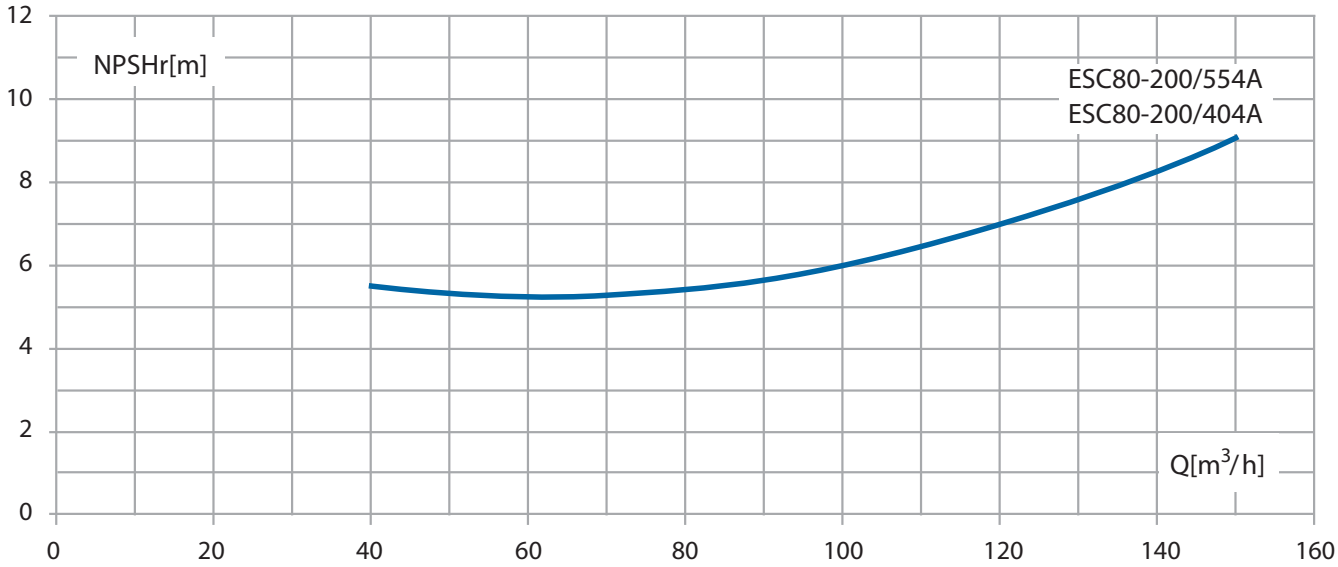


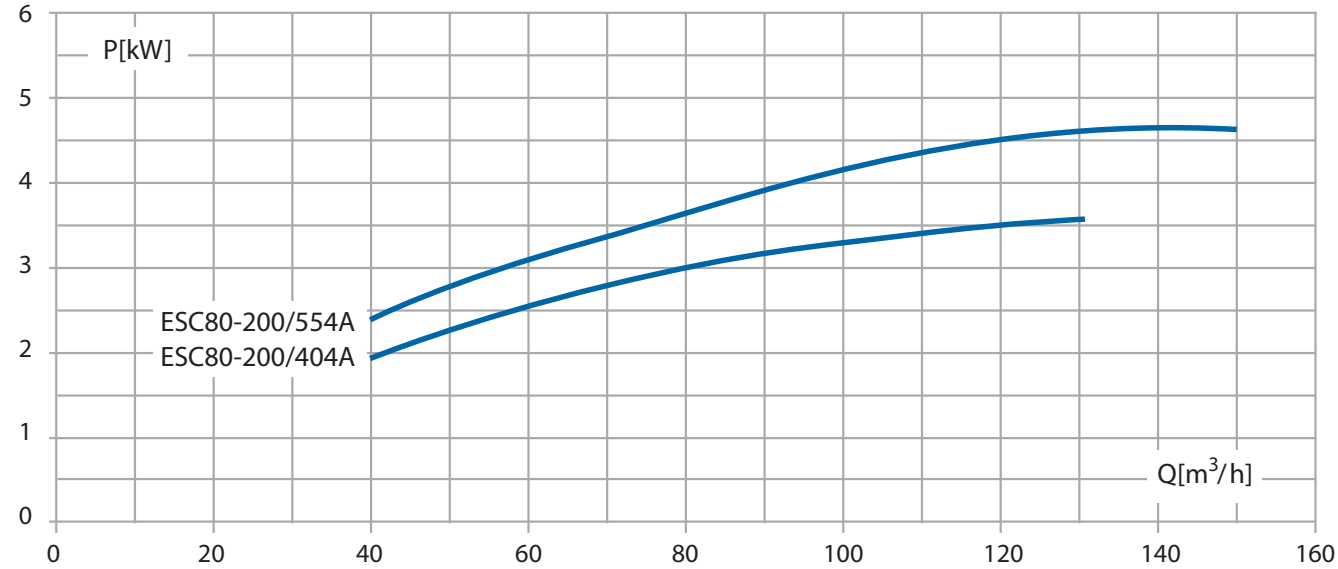




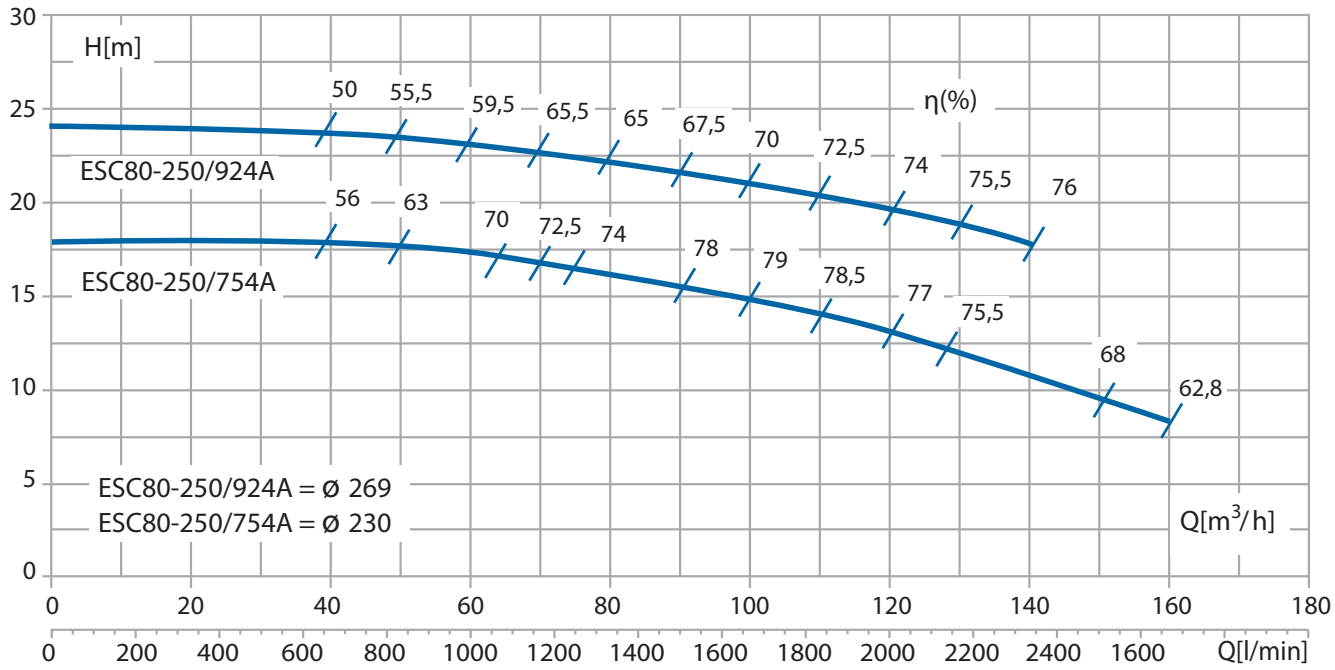
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

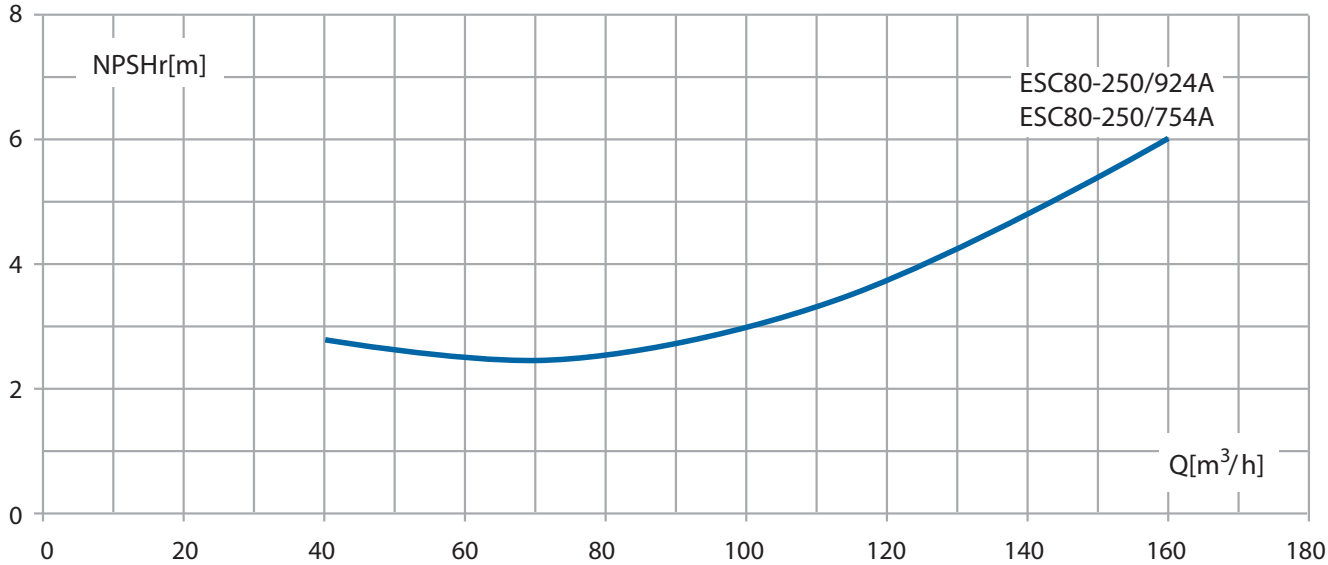


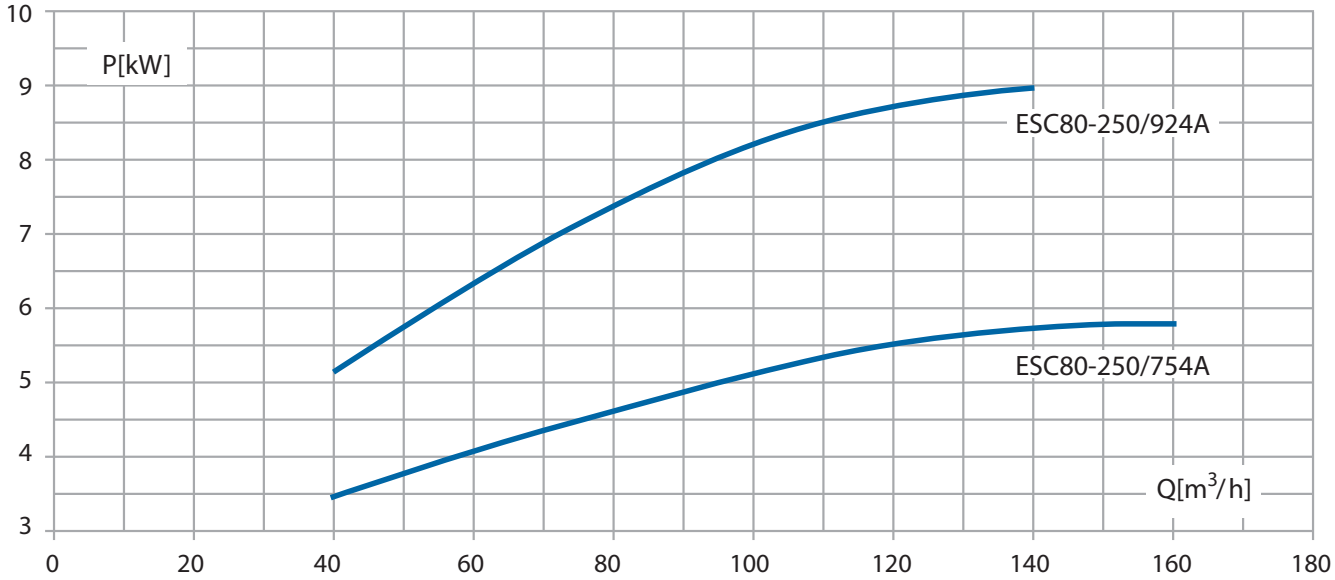




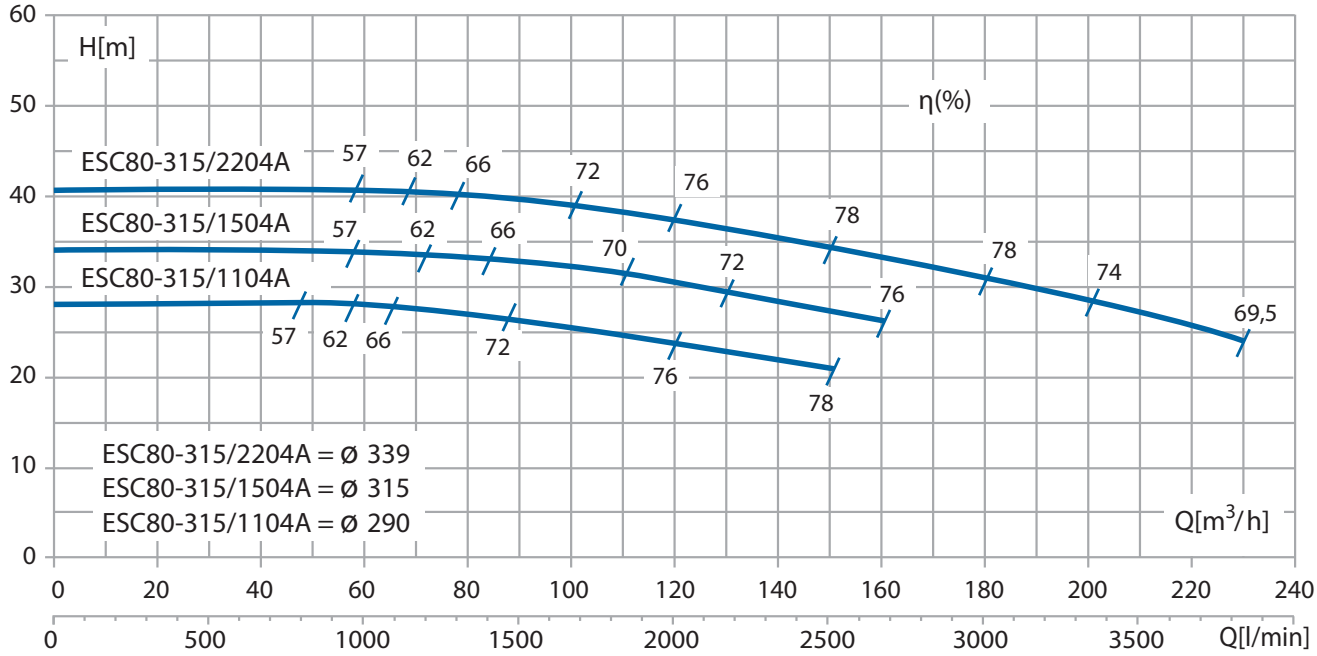
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

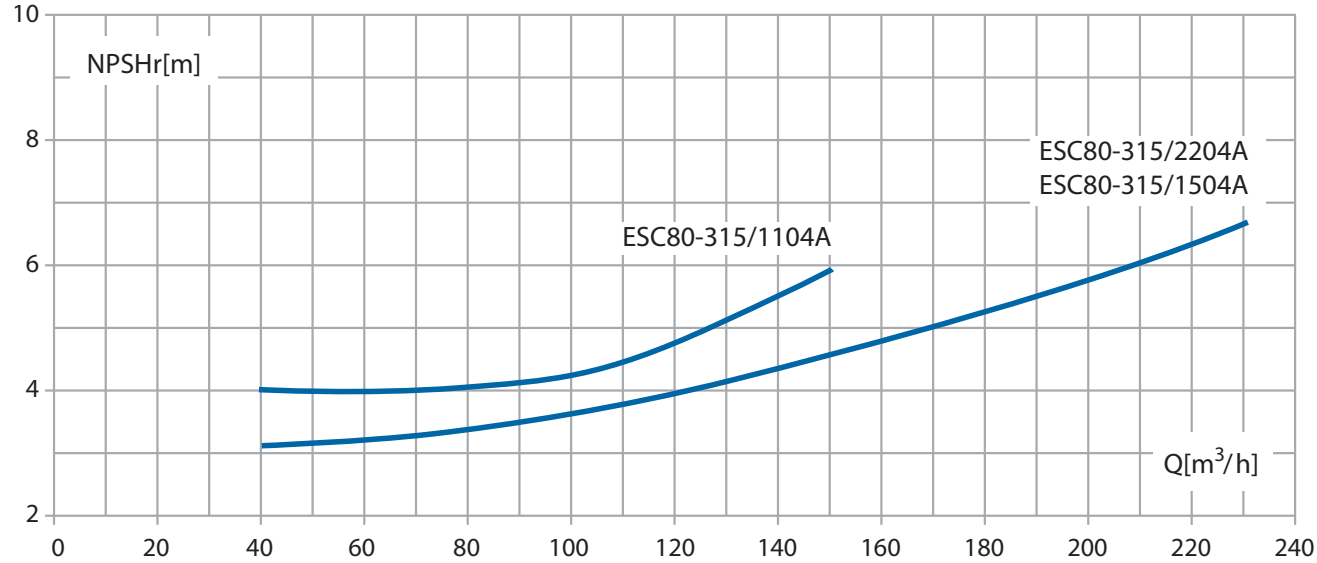


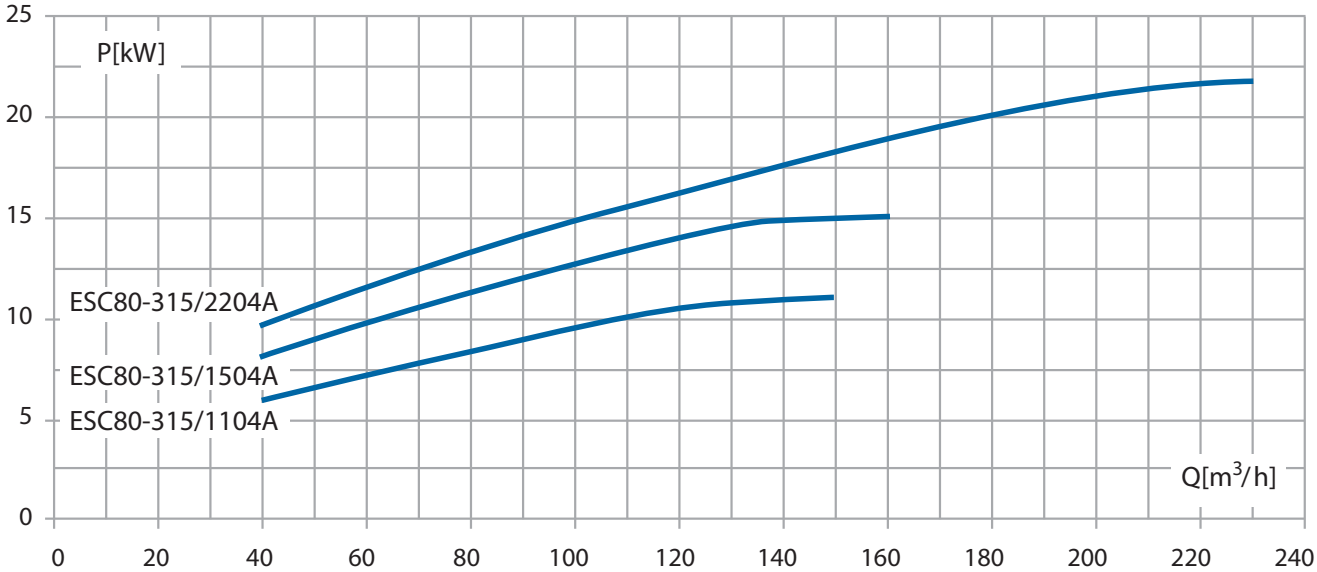




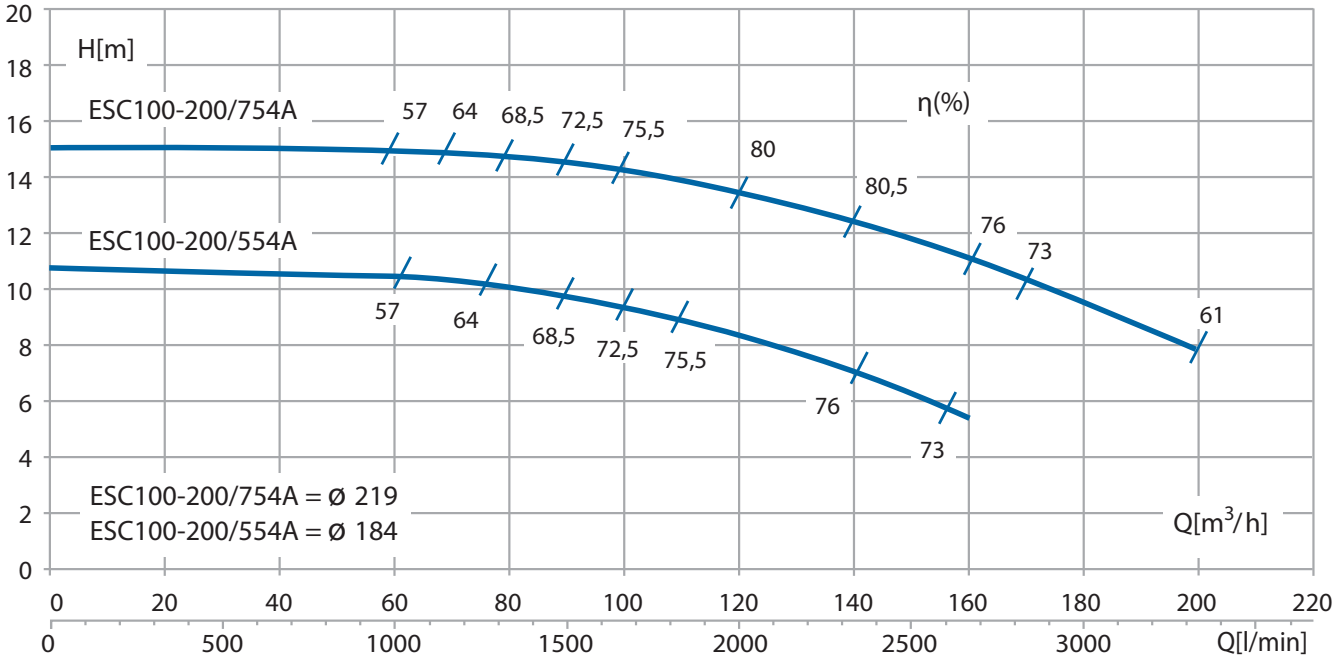
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

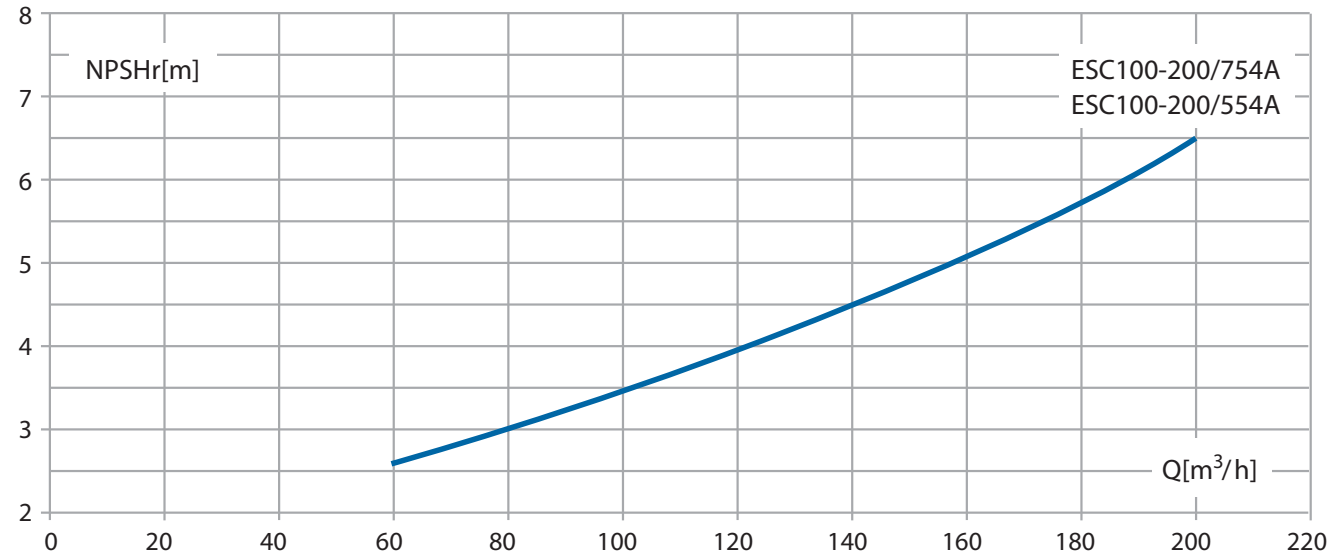


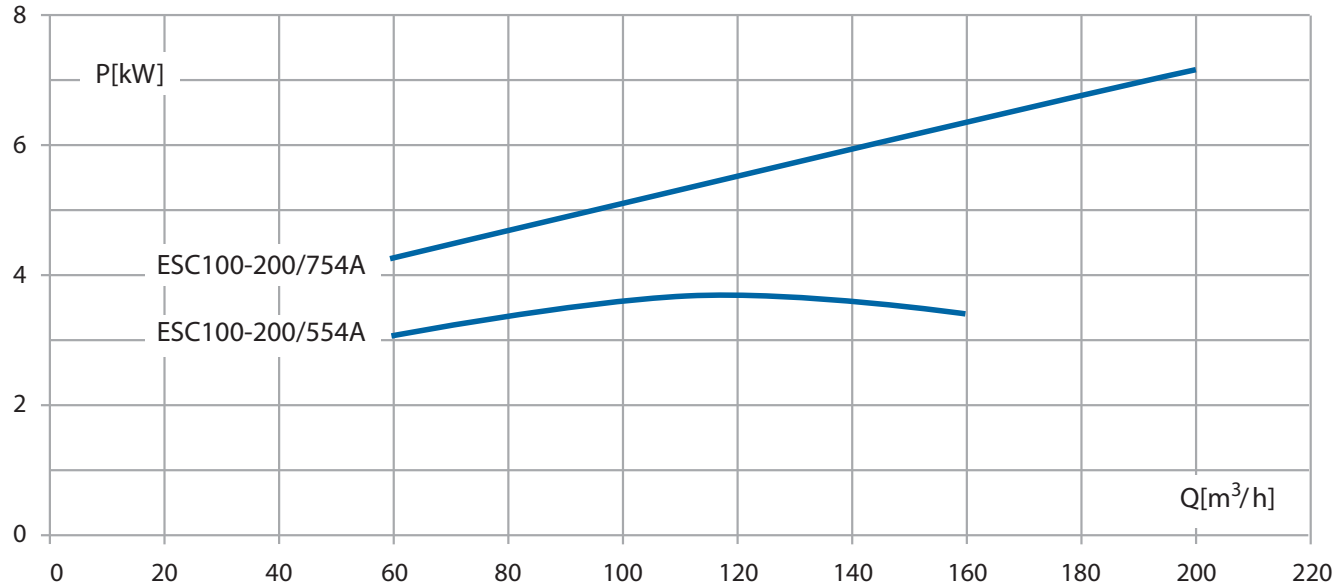




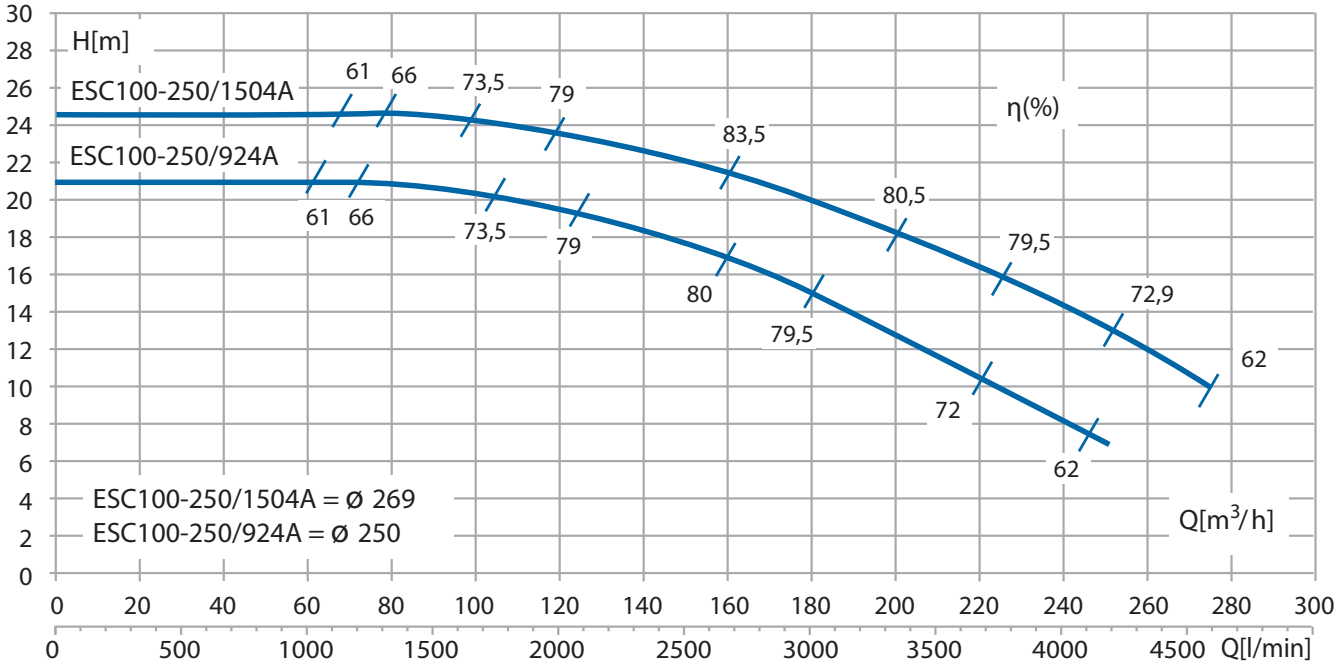
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

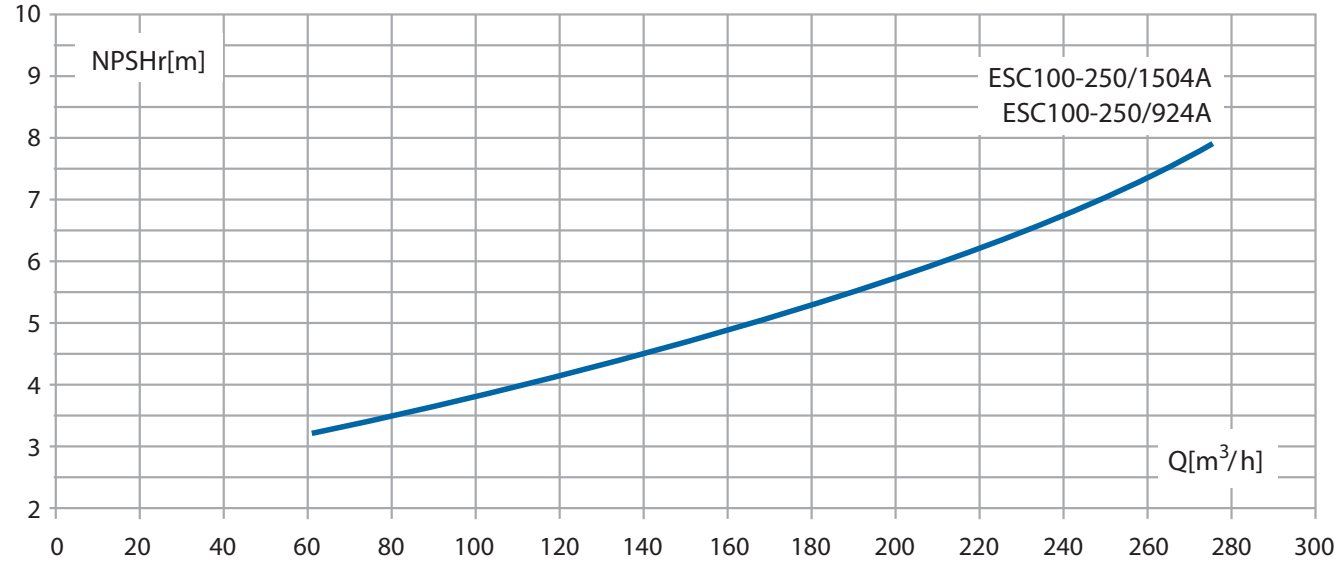


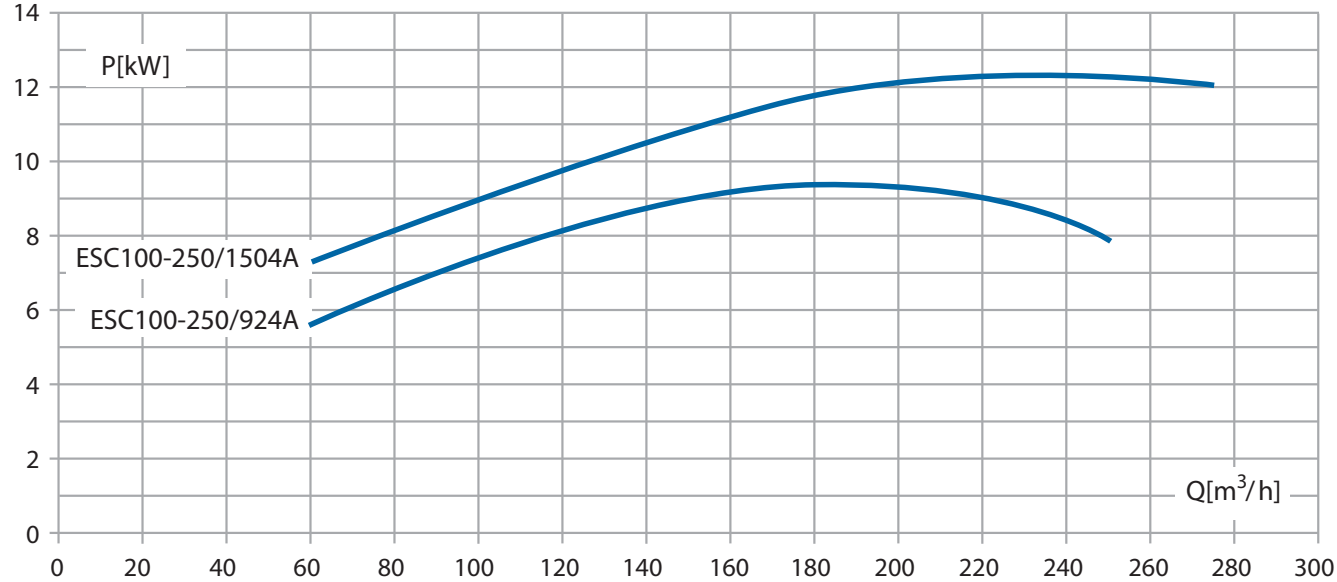




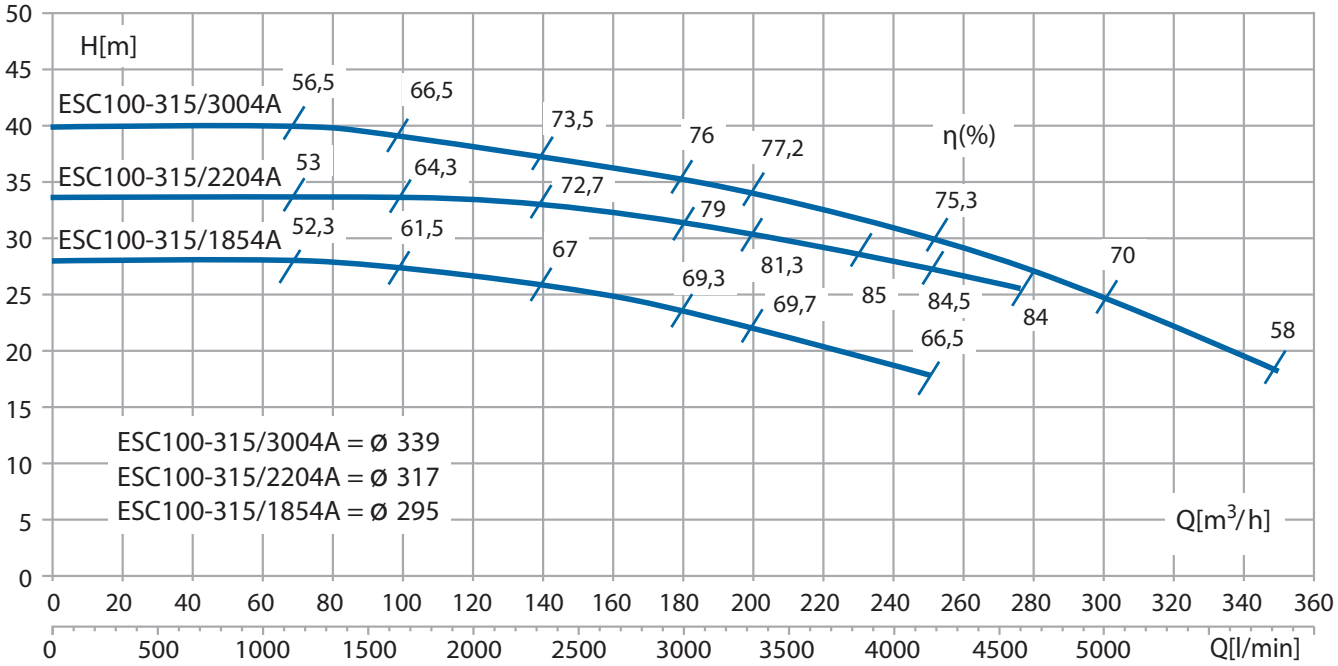
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

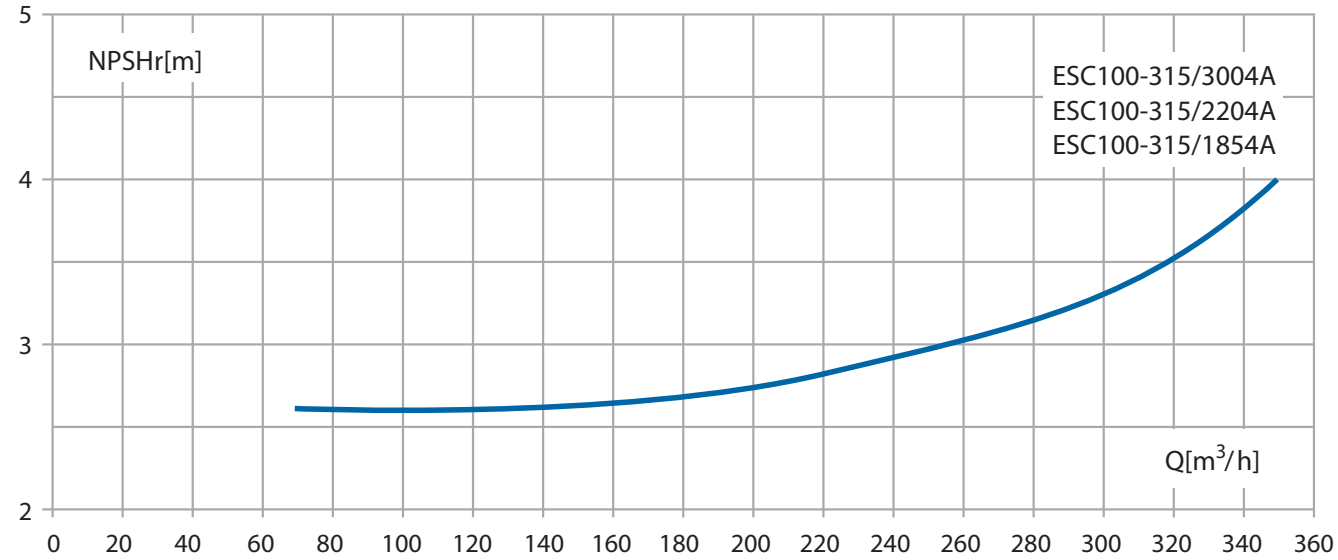


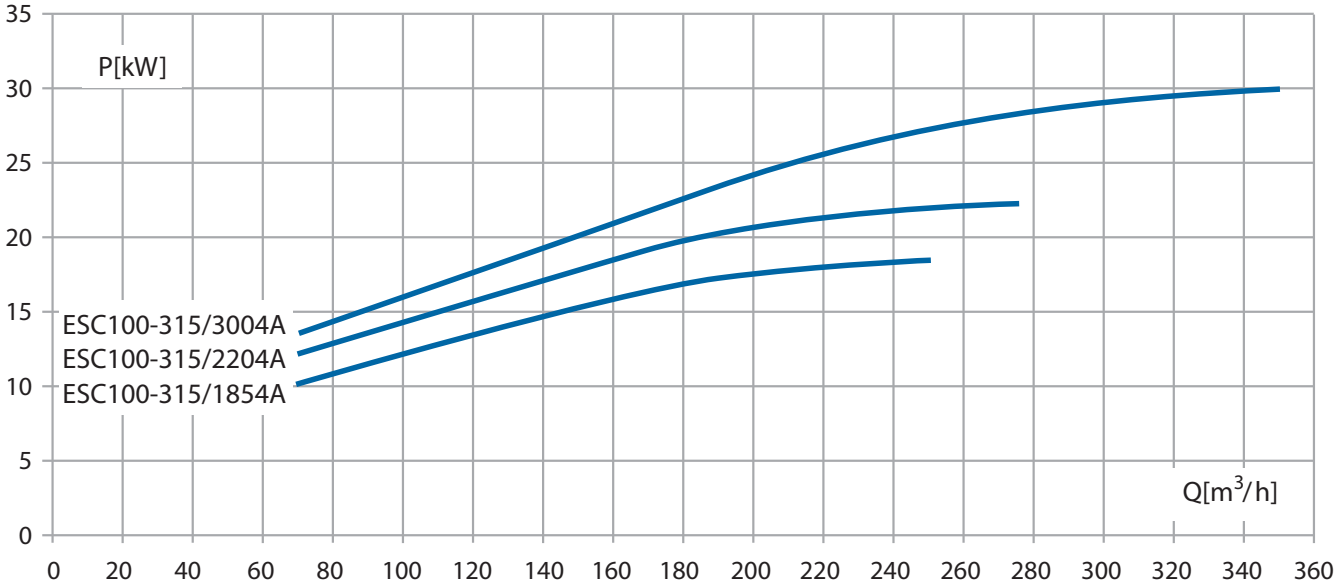




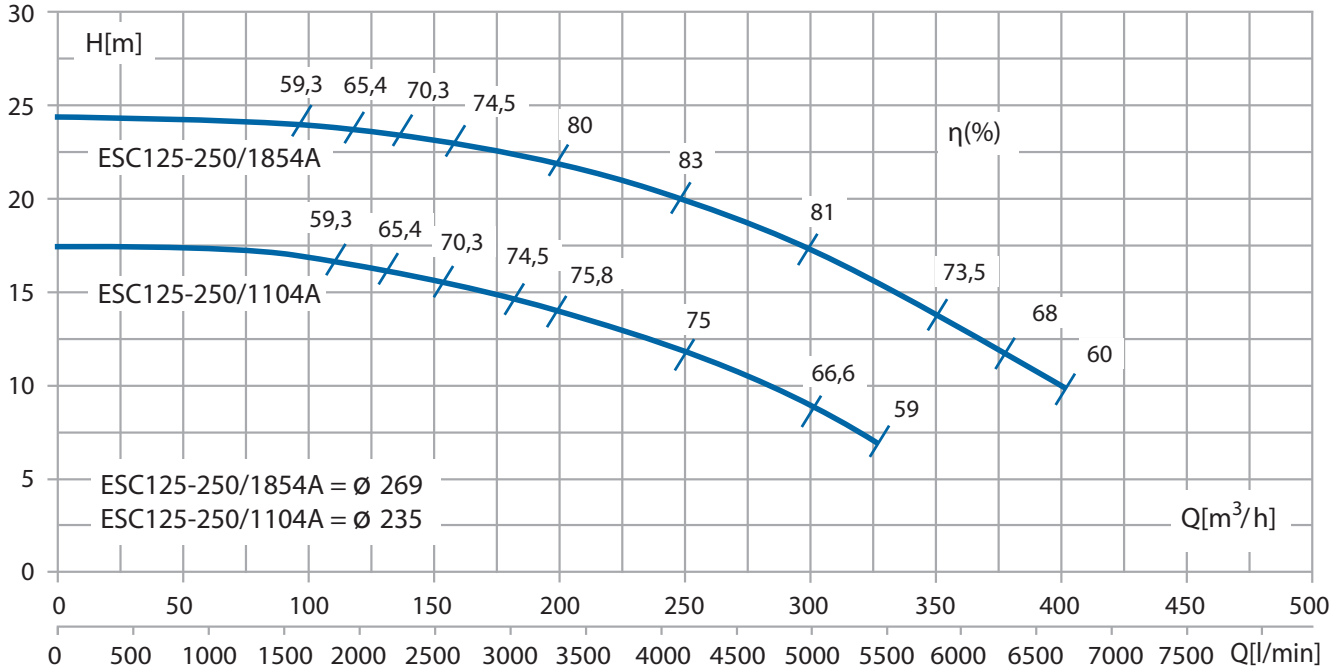
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.

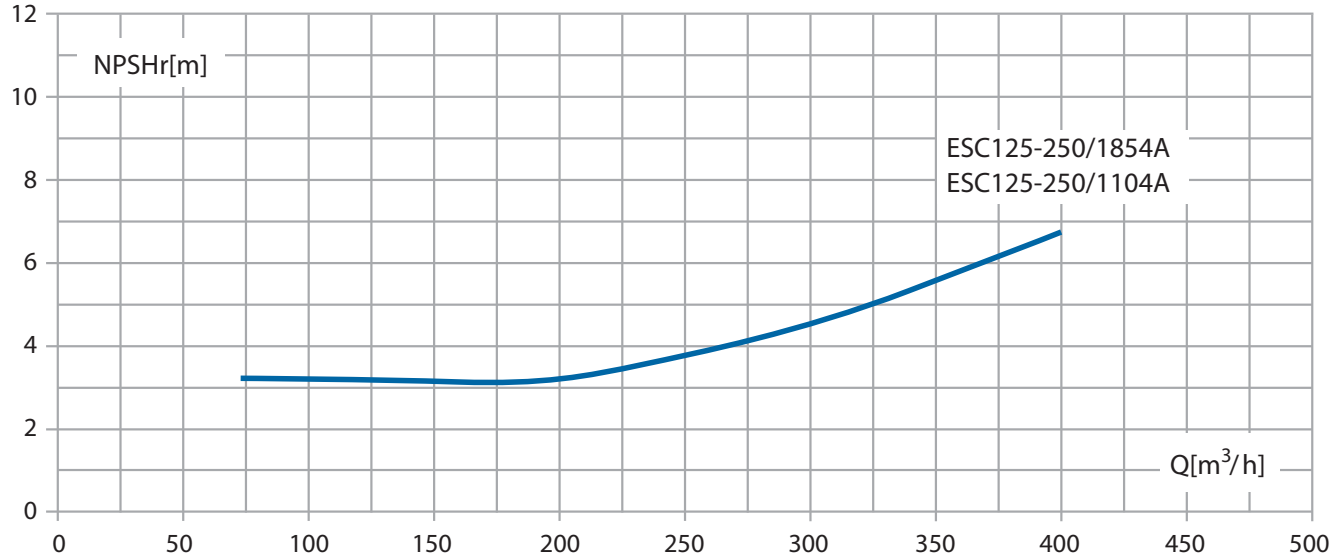


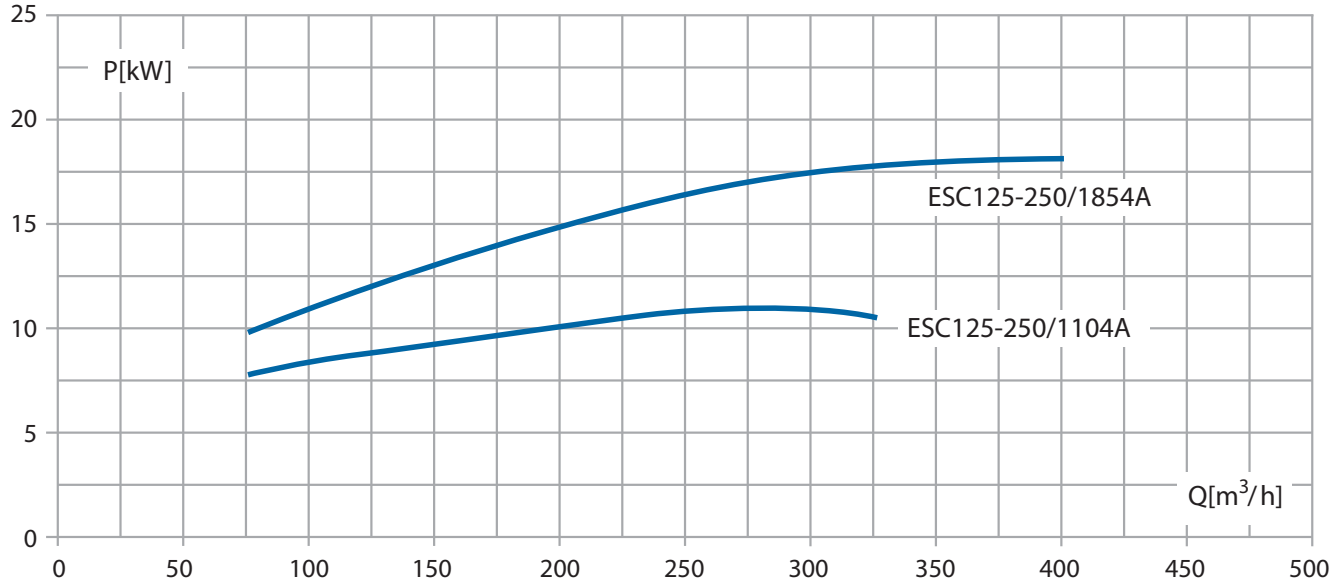




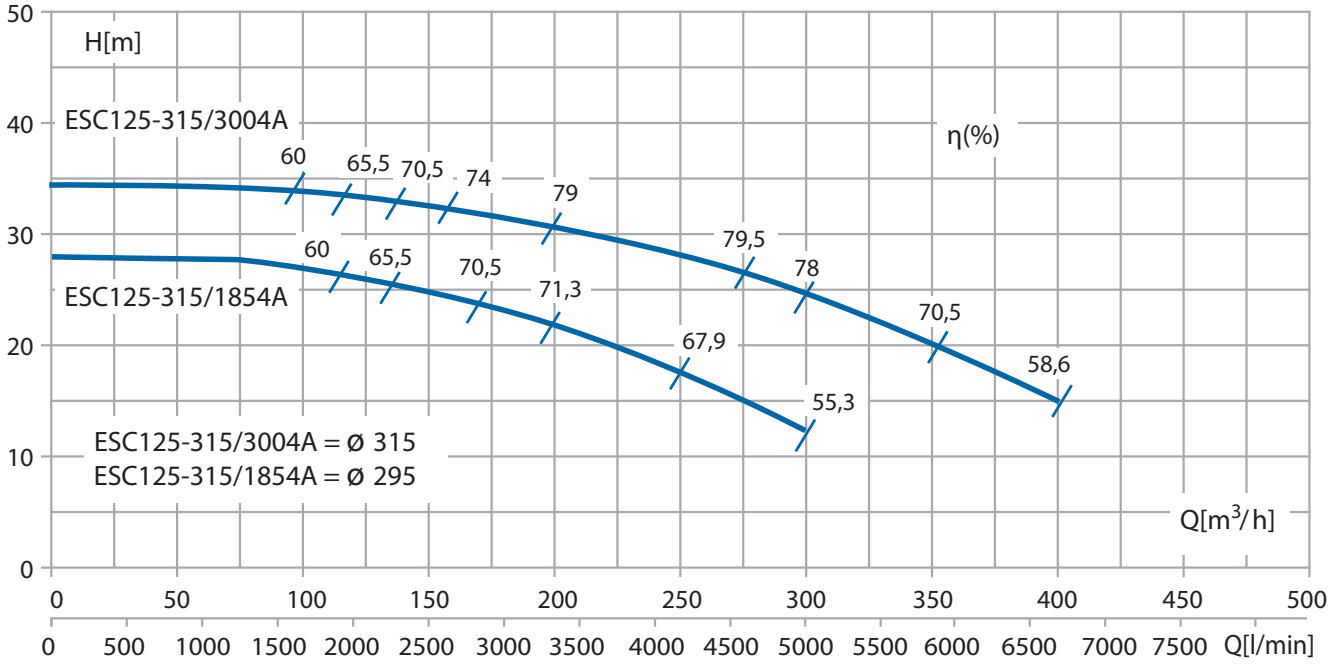
Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

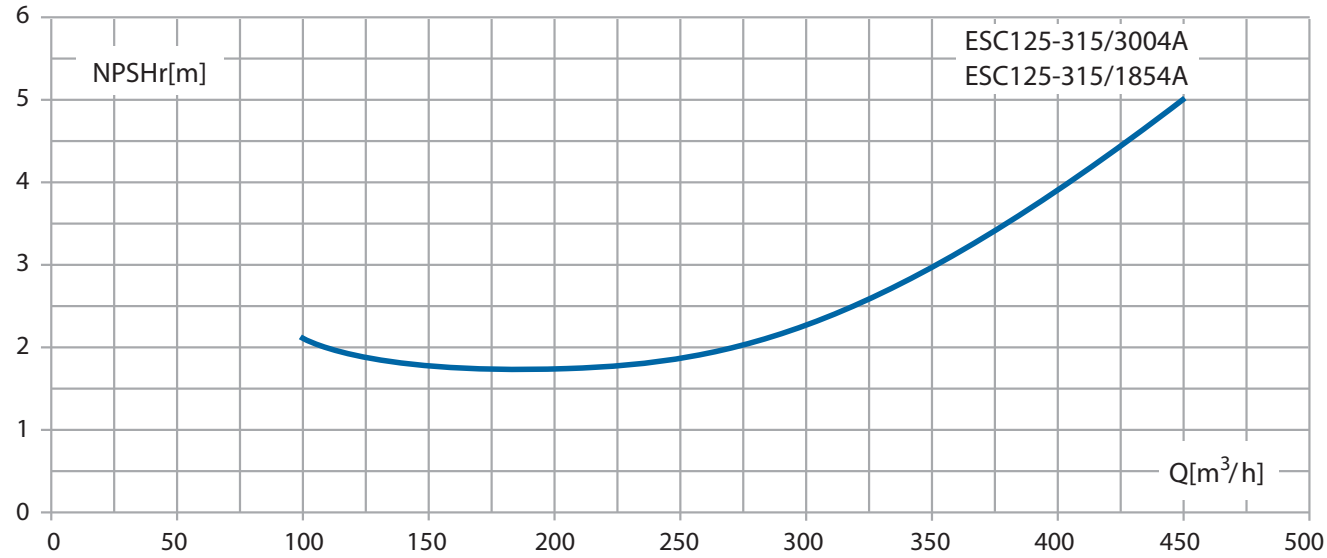


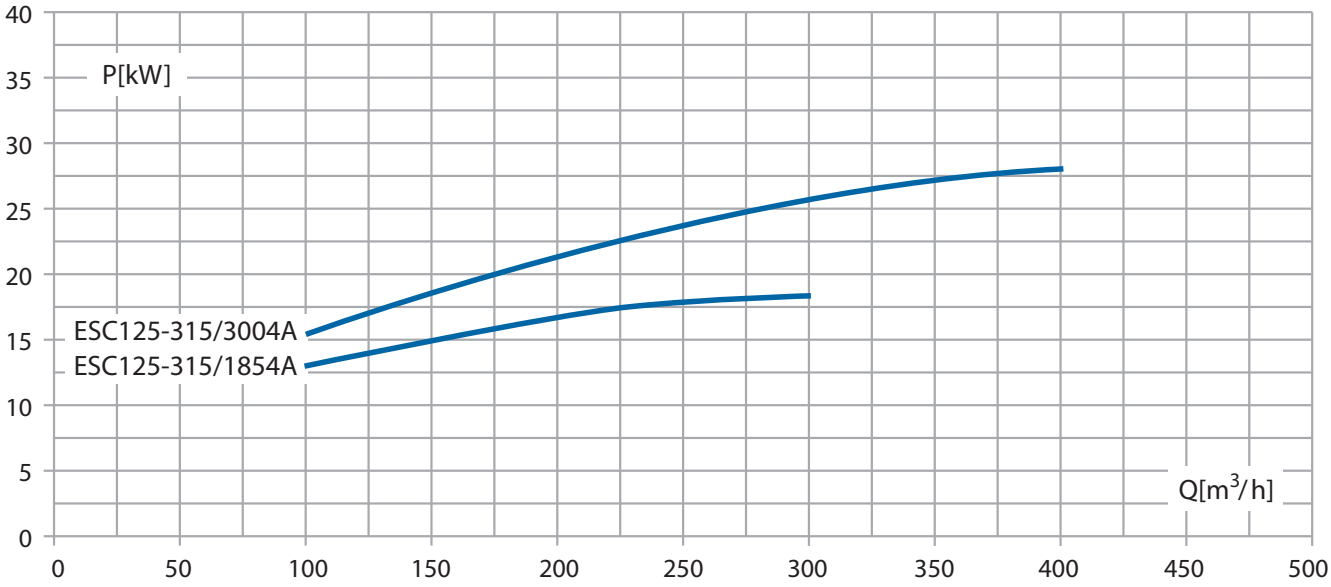




Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15ºc. Data according to ISO 9906 Appendix A.



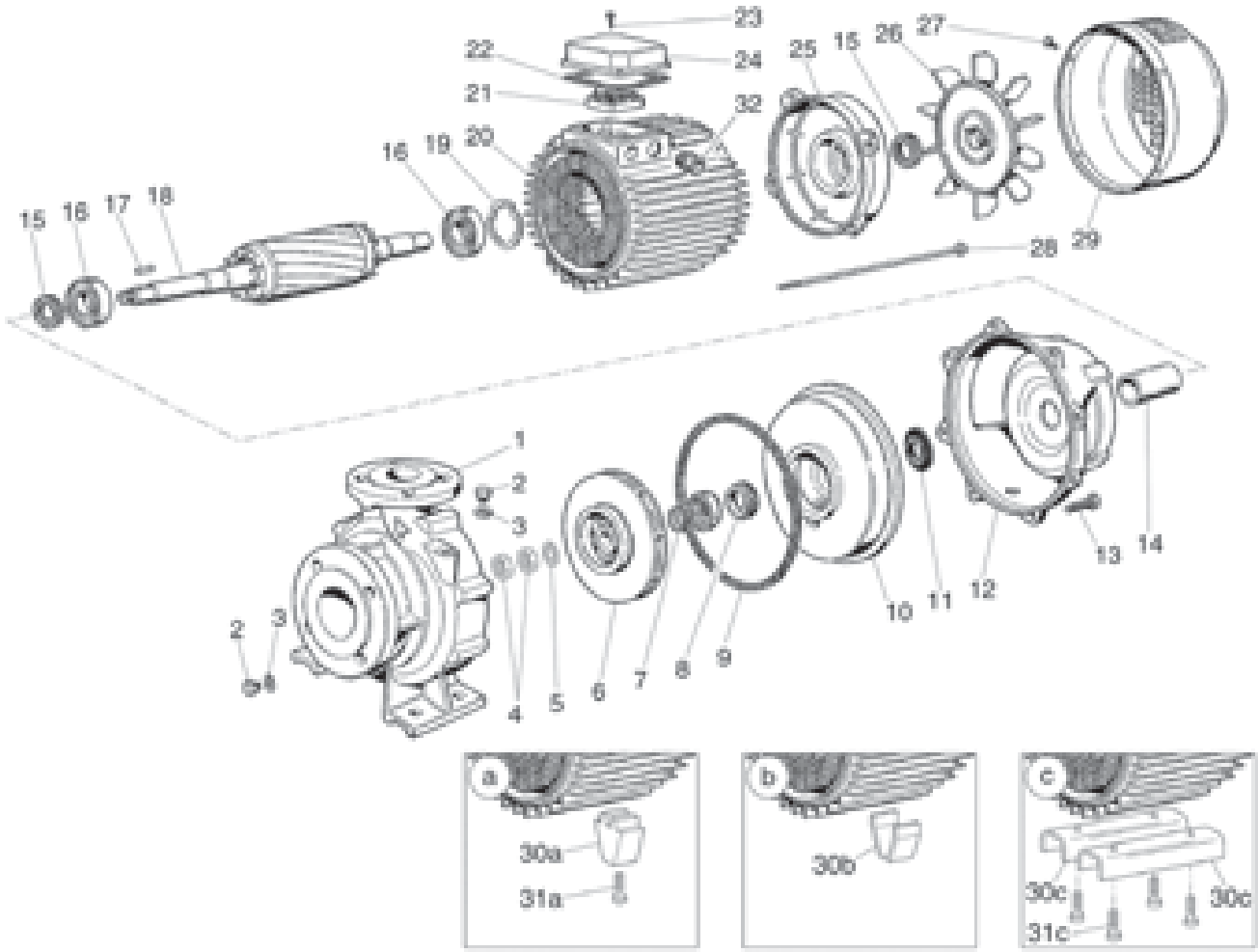




Performance characteristics shown is for units of standard specification, pumping liquids that have a kinematic viscosity of 1mm²/second and specific gravity of 1000kg/m³ at 15°c. Data according to ISO 9906 Appendix A.

Spare Parts and Materials of Construction

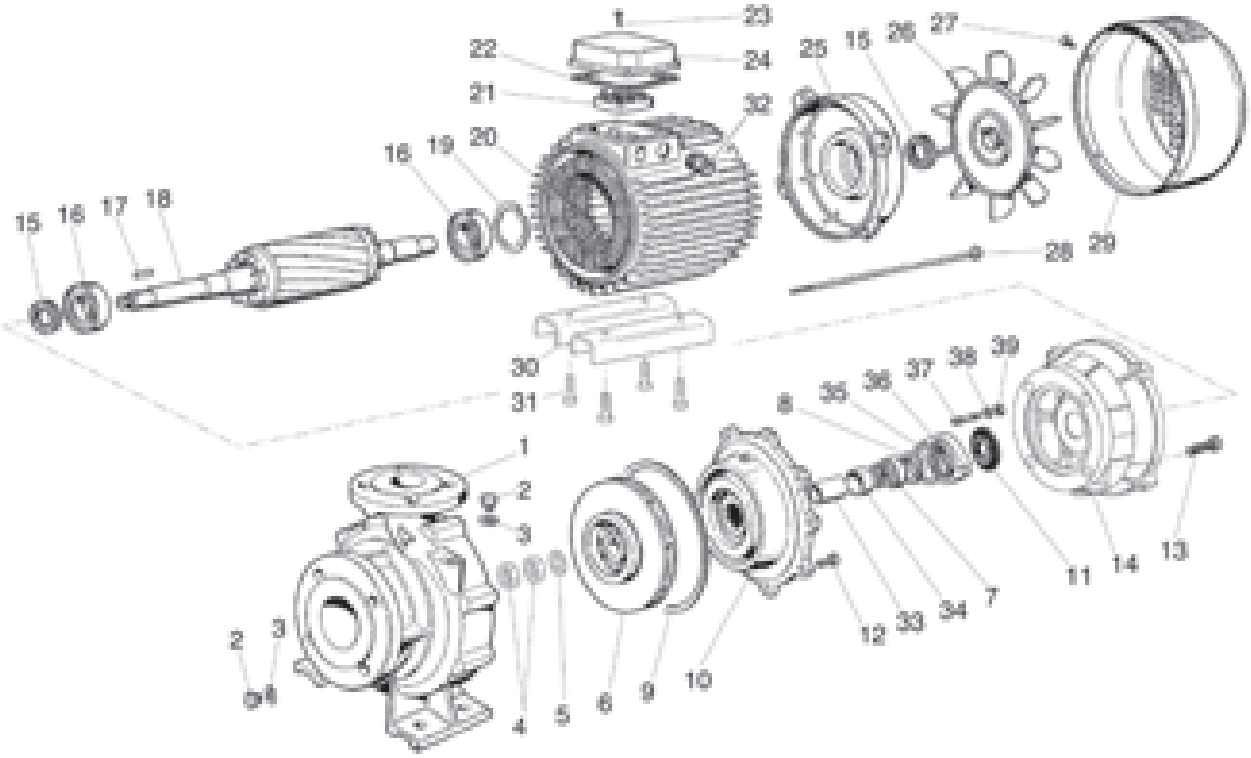
Applies to all ESC 2 Pole models and 4 Pole models except the following 4 Pole sizes:
ESC40-315, ESC80-315, ESC100-315, ESC125-250 and ESC125-315



Position Number	Item Description
1	Pump Casing
2	Plug
3	Gasket
4	Impeller Nuts
5	Washer
6	Impeller
7	Mechanical Seal - Rotary
8	Mechanical Seal - Stationary
9	Casing Gasket
10	Seal Housing
11	Thrower
12	Bearing Bracket
13	Bolt
14	Sleeve
15	Seal Ring
16	Bearing
17	Key

Position Number	Item Description
18	Motor Shaft
19	Wave Spring
20	Motor Casing with Stator
21	Terminal Board
22	Terminal Box Gasket
23	Screw
24	Terminal Box Cover
25	Motor End Shield
26	Fan
27	Screw
28	Tie Rod
29	Fan Cover
30a	Support Foot - Variant
30b	Support Foot - Variant
30c	Support Foot - Variant
31a	Support Foot Screw
31c	Support Foot Screw

Applies only to the following 4 Pole sizes:
ESC40-315, ESC80-315, ESC100-315, ESC125-250 and ESC125-315



Position Number	Item Description
1	Pump Casing
2	Plug
3	Gasket
4	Impeller Nuts
5	Washer
6	Impeller
7	Mechanical Seal - Rotary
8	Mechanical Seal - Stationary
9	Casing Gasket
10	Cover
11	Thrower
12	Bolt
13	Bolt
14	Bearing Bracket
15	Seal Ring
16	Bearing
17	Key
18	Motor Shaft
19	Wave Spring
20	Motor Casing with Stator

Position Number	Item Description
21	Terminal Board
22	Terminal Box Gasket
23	Screw
24	Terminal Box Cover
25	Motor End Shield
26	Fan
27	Screw
28	Tie Rod
29	Fan Cover
30	Support Foot
31	Support Foot Screw
32	Cable Gland
33	Sleeve
34	Spacer
35	O Ring
36	Seal Stationary Housing
37	Stud
38	Washer
39	Nut

COMPONENT MATERIALS

Component	Version		
	Standard Version ESC	Stainless Steel Version ESCX	Bronze Version ESCB
Pump Casing	Cast Iron EN-GJL-250	Stainless Steel AISI 316	Bronze G-CuSn10
Impeller	Cast Iron EN-GJL-250	Stainless Steel AISI 316	Bronze G-CuSn10
Seal Housing	Cast Iron EN-GJL-250	Stainless Steel AISI 316	Bronze G-CuSn10
Shaft	ESC 2 Pole: Duplex Stainless ESC 4 Pole: Stainless Steel AISI 316		
Mechanical Seal	Standard: Q1VEG Option: BVEG	Option 1: Q1Q1VG Option 2: U3U3VG Option 3: Q1U3VG	
Casing Gasket	Non-asbestos natural fibres		

Option	Code	Rotary Seal	Stationary Seal	Elastomers	Spring
1	BVEG	Carbon impregnated with Resin B	Alumina Oxide (Ceramic) V	EPDM E	Steel with crNiMo G
2*	Q_1VEG	Silicon Carbide Q_1	Alumina Oxide (Ceramic) V	EPDM E	Steel with crNiMo G
3	Q_1Q_1VG	Silicon Carbide Q_1	Silicon Carbide Q_1	FPM (Viton®) V	Steel with crNiMo G
4	U_3U_3VG	Tungsten Carbide impregnated with CrNiMo U_3	Tungsten Carbide impregnated with CrNiMo U_3	FPM (Viton®) V	Steel with crNiMo G
5	Q_1U_3VG	Silicon Carbide Q_1	Tungsten Carbide impregnated with CrNiMo U_3	FPM (Viton®) V	Steel with crNiMo G

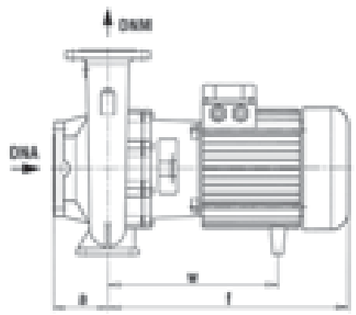
*Standard for ESC Units

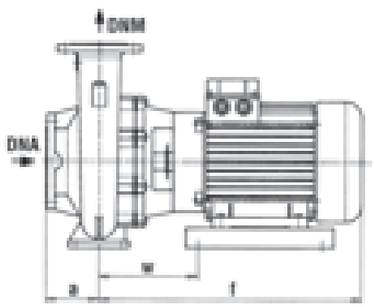
Dimensions and Weights

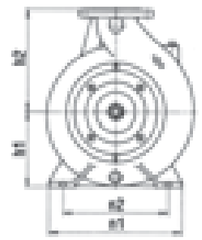
Model	DNA	DNM	f	a	m1	m2	n1	n2	h1	h2	s	b	w	x1	x2	z1	z2	d	kg
ESC32-125/072A	50	32	335	80	100	70	190	140	112	140	14	50	242						27
ESC32-125/112A	50	32	335	80	100	70	190	140	112	140	14	50	242						28
ESC32-125/152A	50	32	335	80	100	70	190	140	112	140	14	50	242						29
ESC32-160/152A	50	32	335	80	100	70	240	190	132	160	14	50	242						33
ESC32-160/222A	50	32	345	80	100	70	240	190	132	160	14	50	245						34
ESC32-160/302A	50	32	369	80	100	70	240	190	132	160	14	50	270						35
ESC32-160/402A	50	32	423,5	80	100	70	240	190	132	160	14	50	300,5						55
ESC32-160/552A	50	32	423,5	80	100	70	240	190	132	160	14	50	300,5						65
ESC32-200/402A	50	32	423,5	80	100	70	240	190	160	180	14	50	300						47
ESC32-200/552A	50	32	423,5	80	100	70	240	190	160	180	14	50	300						52
ESC32-200/752A	50	32	423,5	80	100	70	240	190	160	180	14	50	300						59
ESC32-250/752A	50	32	422	100	125	95	320	250	180	225	14	65	300						66
ESC32-250/922A	50	32	525,5	100	125	95	320	250	180	225	14	65	385						81
ESC32-250/1102A	50	32	525,5	100	125	95	320	250	180	225	14	65	166,5	320	280	258	216	12	88
ESC32-250/1352A	50	32	563,5	100	125	95	320	250	180	225	14	65	184,5	320	280	258	216	12	94
ESC32-250/1702A	50	32	563,5	100	125	95	320	250	180	225	14	65	184,5	320	280	258	216	12	100
ESC40-125/152A	65	40	335	80	100	70	210	160	112	140	14	50	242						31
ESC40-125/222A	65	40	346,5	80	100	70	210	160	112	140	14	50	245						32
ESC40-125/302A	65	40	370,5	80	100	70	210	160	112	140	14	50	270						35
ESC40-160/402A	65	40	383	80	100	70	240	190	132	160	14	50	261						41
ESC40-160/552A	65	40	423,5	80	100	70	240	190	132	160	14	50	305						50
ESC40-200/402A	65	40	423,5	100	100	70	265	212	160	180	14	50	305						50
ESC40-200/552A	65	40	423,5	100	100	70	265	212	160	180	14	50	305						54
ESC40-200/752A	65	40	423,5	100	100	70	265	212	160	180	14	50	305						61
ESC40-250/922A	65	40	525,5	100	125	95	320	250	180	225	14	65	385						87
ESC40-250/1102A	65	40	525,5	100	125	95	320	250	180	225	14	65	166,5	320	280	258	216	12	90
ESC40-250/1502A	65	40	563,5	100	125	95	320	250	180	225	14	65	184,5	320	280	258	216	12	96
ESC40-250/1702A	65	40	563,5	100	125	95	320	250	180	225	14	65	184,5	320	280	258	216	12	96
ESC40-250/1852A	65	40	650	100	125	95	320	250	180	225	14	65	137,5	410	370	320	255	14	137
ESC40-250/2202A	65	40	650	100	125	95	320	250	180	225	14	65	137,5	410	370	320	255	14	141
ESC50-125/222A	65	50	346,5	100	100	70	240	190	132	160	14	50	245						38
ESC50-125/302A	65	50	370,5	100	100	70	240	190	132	160	14	50	270						39
ESC50-125/402A	65	50	396	100	100	70	240	190	132	160	14	50	275						44
ESC50-160/552A	65	50	423,5	100	100	70	265	212	160	180	14	50	305						53
ESC50-160/752A	65	50	423,5	100	100	70	265	212	160	180	14	50	305						60
ESC50-200/922A	65	50	489,5	100	100	70	265	212	160	200	14	50	350						77
ESC50-200/1102A	65	50	489,5	100	100	70	265	212	160	200	14	50	130,5	320	280	260	215	12	82
ESC50-200/1502A	65	50	527,5	100	100	70	265	212	160	200	14	50	148,5	320	280	260	215	12	89
ESC50-200/1702A	65	50	527,5	100	100	70	265	212	160	200	14	50	148,5	320	280	260	215	12	90
ESC50-200/2202A	65	50	650	100	100	70	265	212	160	200	14	50	149,5	410	370	320	255	14	136
ESC50-250/1702A	65	50	563,5	100	125	95	320	250	180	225	14	65	184,5	320	280	260	215	12	94
ESC50-250/2002A	65	50	650	100	125	95	320	250	180	225	14	65	149,5	320	280	260	215	12	138
ESC50-250/2502A	65	50	650	100	125	95	320	250	180	225	14	65	149,5	320	280	260	215	12	142
ESC50-250/3002A	65	50	674,5	100	125	95	320	250	180	225	14	65	139,5	410	370	320	255	14	149
ESC65-125/302A	80	65	370,5	100	125	95	280	212	160	180	14	65	270						41
ESC65-125/402A	80	65	393	100	125	95	280	212	160	180	14	65	275						46
ESC65-125/552A	80	65	423,5	100	125	95	280	212	160	180	14	65	305						52
ESC65-125/752A	80	65	423,5	100	125	95	280	212	160	180	14	65	305						58

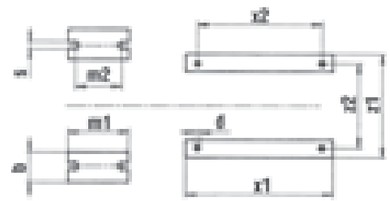
Dimensions & Weights
2 Pole Models
Modus FLUID TECHNOLOGY

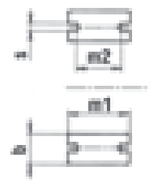
Model	DNA	DNM	f	a	m1	m2	n1	n2	h1	h2	s	b	w	x1	x2	z1	z2	d	kg
ESC65-160/922A	80	65	489,5	100	125	95	280	212	160	200	14	65	345						75
ESC65-160/1102A	80	65	489,5	100	125	95	280	212	160	200	14	65	130,5	320	280	260	215	12	81
ESC65-160/1502A	80	65	527,5	100	125	95	280	212	160	200	14	65	148,5	320	280	260	215	12	85
ESC65-200/1502A	80	65	527,5	100	125	95	320	250	180	225	14	65	148,5	320	280	260	215	12	93
ESC65-200/1852A	80	65	641	100	125	95	320	250	180	225	14	65	150	410	370	320	255	14	135
ESC65-200/2202A	80	65	641	100	125	95	320	250	180	225	14	65	150	410	370	320	255	14	141
ESC65-250/2202A	80	65	687,5	100	160	120	360	280	202	252	18	80	197,5	320	254	309	264	12	168
ESC65-250/3002A	80	65	687,5	100	160	120	360	280	202	252	18	80	197,5	320	254	309	264	12	174
ESC65-250/3702A	80	65	687,5	100	160	120	360	280	202	252	18	80	197,5	320	254	309	264	12	185
ESC80-160/552A	100	80	428,5	125	125	95	320	250	180	225	14	65	305						63
ESC80-160/752A	100	80	428,5	125	125	95	320	250	180	225	14	65	305						70
ESC80-160/922A	100	80	489,5	125	125	95	320	250	180	225	14	65	350						83
ESC80-160/1102A	100	80	489,5	125	125	95	320	250	180	225	14	65	130,5	320	280	260	215	12	88
ESC80-160/1502A	100	80	527,5	125	125	95	320	250	180	225	14	65	148	320	280	260	215	12	93
ESC80-160/1852A	100	80	650	125	125	95	320	250	180	225	14	65	149	410	370	320	255	14	139
ESC80-160/2202A	100	80	650	125	125	95	320	250	180	225	14	65	149	410	370	320	255	14	139
ESC80-200/3002A	100	80	759,5	125	125	95	345	280	180	250	14	65	234,5	410	370	320	255	14	272
ESC80-200/3702A	100	80	759,5	125	125	95	345	280	180	250	14	65	317,5	355	305	395	315	18	280





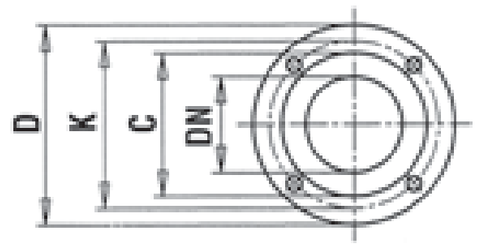






Flange Sizes (mm)

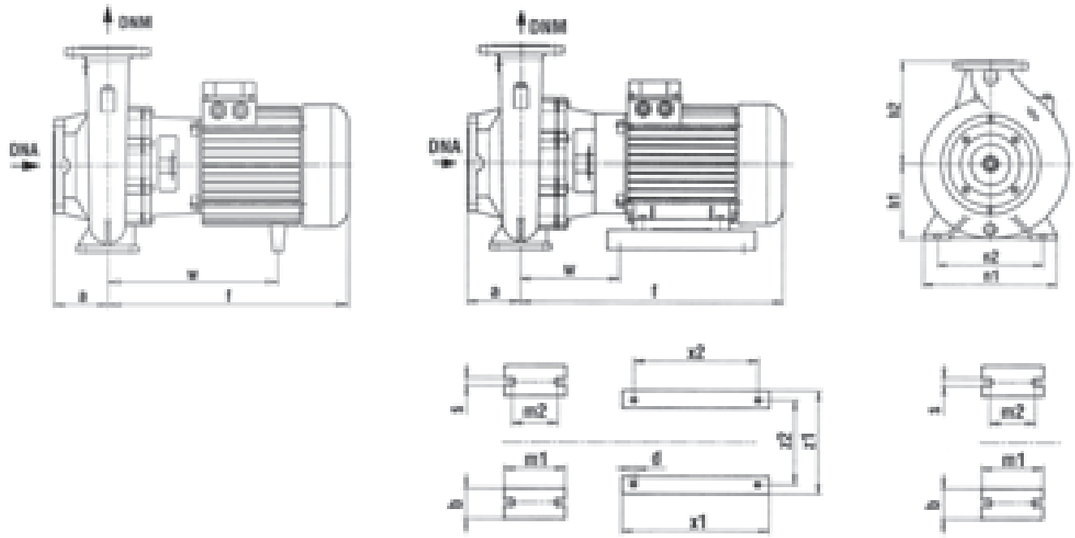
D	K	C	DN	No. Bolt Holes	Bolt Hole Ø
140	100	78	32	4	19
150	110	88	40	4	19
165	125	102	50	4	19
185	145	122	65	4	19
200	160	138	80	8	19
220	180	158	100	8	19
250	210	188	125	8	19
285	240	212	150	8	22



GA drawings only - Not to be used for construction. Not to scale.

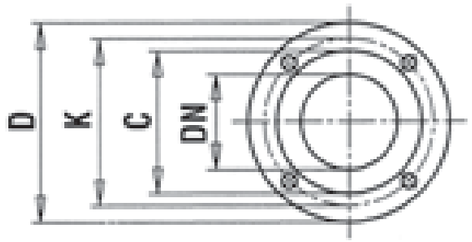
Dimensions & Weights
4 Pole Models
Modus FLUID TECHNOLOGY

Model	DNA	DNM	f	a	m1	m2	n1	n2	h1	h2	s	b	w	x1	x2	z1	z2	d	kg
ESC32-125/0374A	50	32	333	80	100	70	190	140	112	140	14	50	240,5						23
ESC32-160/0554A	50	32	333	80	100	70	240	190	132	160	14	50	240,5						29
ESC32-200/114A	50	32	346,5	80	100	70	240	190	160	180	14	50	248,5						37
ESC32-250/224A	50	32	395	100	125	95	320	250	225	250	14	65	274,5						50
ESC40-125/0374A	65	40	333	80	100	70	210	160	112	140	14	50	240,5						24
ESC40-160/0754A	65	40	333	80	100	70	240	190	132	160	14	50	240,5						31
ESC40-200/114A	65	40	346,5	100	100	70	265	212	160	180	14	50	248,5						38
ESC40-250/224A	65	40	395	100	125	95	320	250	180	225	14	65	274,5						50
ESC40-250/304A	65	40	395	100	125	95	320	250	180	225	14	65	274,5						54
ESC40-315/404A	65	40	430,5	100	125	95	345	280	225	250	14	65	310						90
ESC40-315/554A	65	40	452	100	125	95	345	280	225	250	14	65	329						105
ESC40-315/924A	65	40	536,5	100	125	95	345	280	225	250	14	65	177,5	320	280	260	215	12	115
ESC50-125/0554A	65	50	333	100	100	70	240	190	132	160	14	50	240,5						29
ESC50-160/114A	65	50	345	100	100	70	265	212	160	180	14	50	247						37
ESC50-200/154A	65	50	375,5	100	100	70	265	212	160	200	14	50	277,5						42
ESC50-200/304A	65	50	407	100	125	95	320	250	160	200	14	65	286,5						54
ESC50-250/224A	65	50	395	100	125	95	320	250	180	225	14	65	274,5						54
ESC50-250/404A	65	50	402	100	125	95	320	250	180	225	14	65	281,5						65
ESC65-125/0754A	80	65	333	100	125	95	280	212	160	180	14	65	240,5						32
ESC65-160/154A	80	65	350	100	125	95	280	212	160	200	14	65	252						40
ESC65-200/304A	80	65	400	100	125	95	280	250	180	225	14	65	279,5						58
ESC65-250/404A	80	65	428,5	100	160	120	360	280	200	250	18	80	305,5						74
ESC65-250/554A	80	65	530,5	100	160	120	360	280	200	250	18	80	392,5						77
ESC65-315/924A	80	65	542,5	125	160	120	400	315	225	280	18	80	163,5	320	280	260	215	12	173
ESC65-315/1104A	80	65	651	125	160	120	400	315	225	280	18	80	160	410	370	320	255	14	186
ESC65-315/1504A	80	65	651	125	160	120	400	315	225	280	18	80	160	410	370	320	255	14	204
ESC80-160/224A	100	80	400	125	125	95	320	250	180	225	14	65	279,5						56
ESC80-200/404A	100	80	457	125	125	95	345	280	180	250	14	65	334						71
ESC80-200/554A	100	80	519,5	125	125	95	345	280	180	250	14	65	381,5						86
ESC80-250/754A	100	80	598,5	125	160	120	400	315	200	280	18	80	460,5						107
ESC80-250/924A	100	80	598,5	125	160	120	400	315	200	280	18	80	460,5						111
ESC80-315/1104A	100	80	681	125	160	120	400	315	250	315	18	80	190	410	370	320	255	14	252
ESC80-315/1504A	100	80	681	125	160	120	400	315	250	315	18	80	190	410	370	320	255	14	273
ESC80-315/2204A	100	80	736,5	125	160	120	400	315	250	315	18	80	226	410	370	345	280	14	303
ESC100-200/554A	125	100	534,5	125	160	120	360	280	200	280	18	80	175,5	320	280	260	215	12	124
ESC100-200/754A	125	100	572,5	125	160	120	360	280	200	280	18	80	193,5	320	280	260	215	12	130
ESC100-250/924A	125	100	655,5	140	160	120	400	315	225	280	18	80	190	410	370	320	255	14	174
ESC100-250/1504A	125	100	681	140	160	120	400	315	225	280	18	80	190	410	370	320	255	14	189
ESC100-315/1854A	125	100	753,5	140	160	120	400	315	250	315	18	80	226	410	370	345	280	14	323
ESC100-315/2204A	125	100	753,5	140	160	120	400	315	250	315	18	80	226	410	370	345	280	14	331
ESC100-315/3004A	125	100	753,5	140	160	120	400	315	250	315	18	80	185,5	410	305	390	318	18	366
ESC125-250/1104A	150	125	681	140	160	120	400	315	250	355	18	80	190	410	370	320	255	14	236
ESC125-250/1854A	150	125	753,5	140	160	120	400	315	250	355	18	80	226	410	370	345	280	14	276
ESC125-315/1854A	150	125	752,5	140	200	150	500	400	280	355	24	100	225	410	370	345	280	14	448
ESC125-315/3004A	150	125	752,5	140	200	150	500	400	280	355	24	100	184,5	410	305	390	318	18	483



Flange Sizes (mm)

D	K	C	DN	No. Bolt Holes	Bolt Hole Ø
140	100	78	32	4	19
150	110	88	40	4	19
165	125	102	50	4	19
185	145	122	65	4	19
200	160	138	80	8	19
220	180	158	100	8	19
250	210	188	125	8	19
285	240	212	150	8	22



GA drawings only - Not to be used for construction. Not to scale.

Modus Fluid Technology, Century Court, Tuffley Lane, Gloucester, GL4 0PZ
Tel: 0844 8007052 Fax: 0844 8007053

www.modusfluidtechnology.com

© Modus Fluid Technology 2011. No part of this publication may be reproduced without the expressed consent of the company.
In line with our policy of continuous development, specification may change without prior notice.

Issue Number: ESC/TD/0811