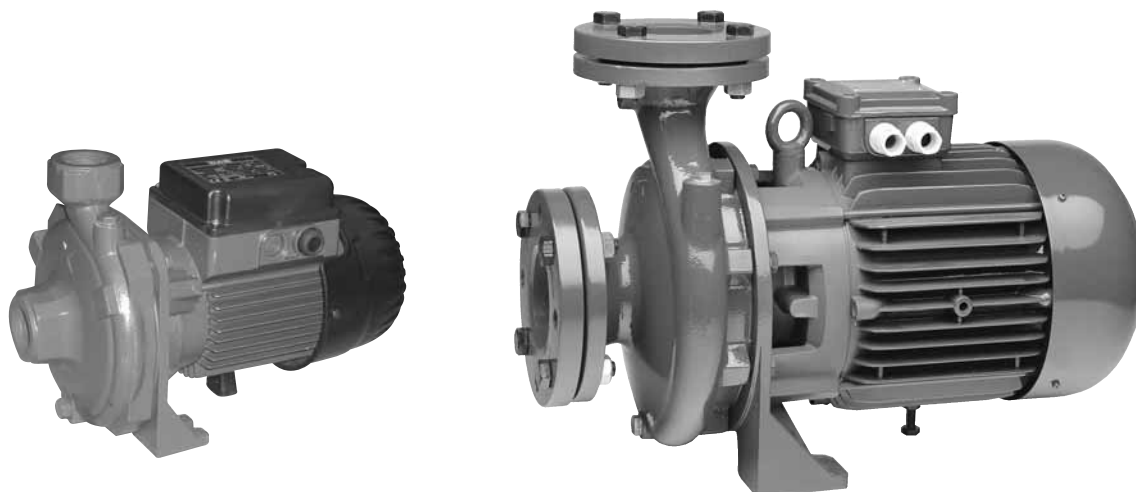

K

SINGLE IMPELLER PUMPS



GENERAL DATA

Applications

Single impeller centrifugal pump suitable for domestic, civil, industrial and agricultural installations and for decanting, mixing and irrigating uses.

Constructional features of the pump

Cast iron pump body and motor support.

Technopolymer or cast iron impeller, as indicated in the table of TECHNICAL DATA.

Carbon/ceramic mechanical seal.

Constructional features of the motor

Induction motor, closed and cooled with external ventilation.

Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.

Built-in thermal and current overload protection and a capacitor permanently in circuit in the single-phase version.

Three-phase motors should be protected with a suitable overload protection complying with the regulations in force.

Manufactured according to CEI 2-3 standards.

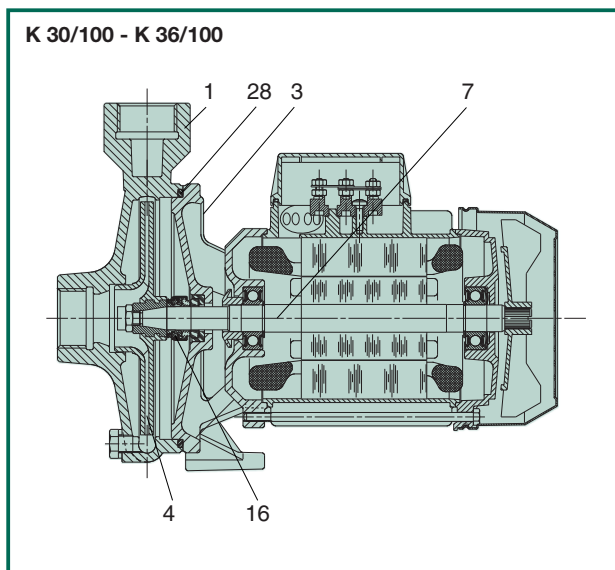
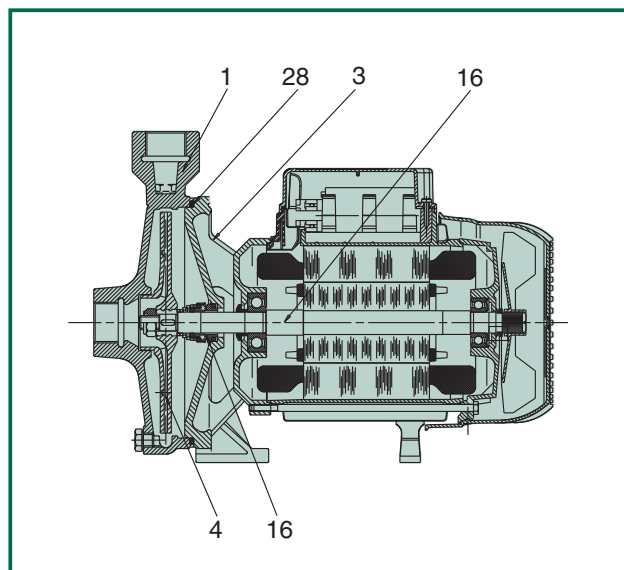
Motor protection: IP44 (IP 55 for motor to 2,2 - 3 - 4 - 5,5 - 7,5 - 9,2 - 11 kW)

Terminal box protection: IP55

Insulation class: F

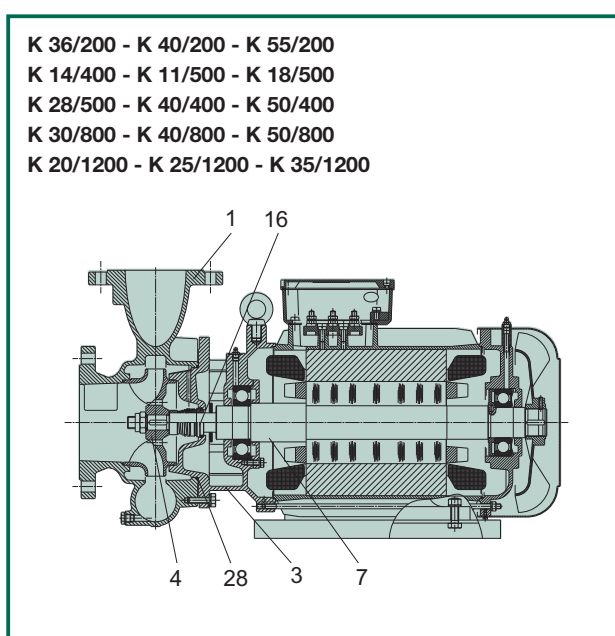
Standard voltage:	single-phase	220-240 V/50 Hz
	three-phase	230-400 V/50 Hz up to and including 4 kW
		400 V Δ 50 Hz over 4 kW

TECHNICAL DATA



N.	PARTS*	MATERIALS	MODELS
1	PUMP BODY	CAST IRON 200 UNI ISO 185	
3	SUPPORT	CAST IRON 200 UNI ISO 185	
4	IMPELLER	TECHNOPOLYMER A	K 20/41; K 30/70; K 30/100; K 36/100; K 12/200; K 36/200; K 40/200.
		TECHNOPOLYMER B	K 55/200
		CAST IRON 200 UNI ISO 185	K 14/400; K 11/500; K 18/500; K 28/500; K 40/400; K 50/400; K 30/800; K 40/800; K 50/800; K 20/1200; K 25/1200; K 35/1200.
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12CrS13 UNI 6900/71	K 20/41; K 30/70; K 12/200
		STAINLESS STEEL AISI 303 X10CrNiS 1089 UNI 6900/71	K 30/100; K 36/100; K 36/200; K 40/200; K 55/200; K 14/400; K 11/500; K 18/500; K 28/500.
		STAINLESS STEEL AISI 304 X5CrNi 1810 UNI 6900/71	K 40/400; K 50/400; K 30/800; K 40/800; K 50/800; K 20/1200; K 25/1200; K 35/1200.
16	MECHANICAL SEAL	CARBON/CERAMIC	
28	OR GASKET	NBR RUBBER	
		EPDM RUBBER	K 36/200; K 40/200; K 55/200; K 14/400; K 11/500; K 18/500; K 28/500; K 30/800; K 40/800; K 50/800; K 20/1200; K 25/1200; K 35/1200.

* In contact with the liquid.

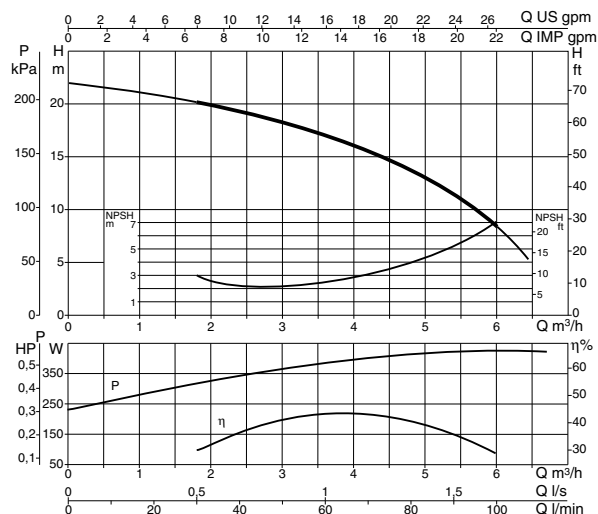
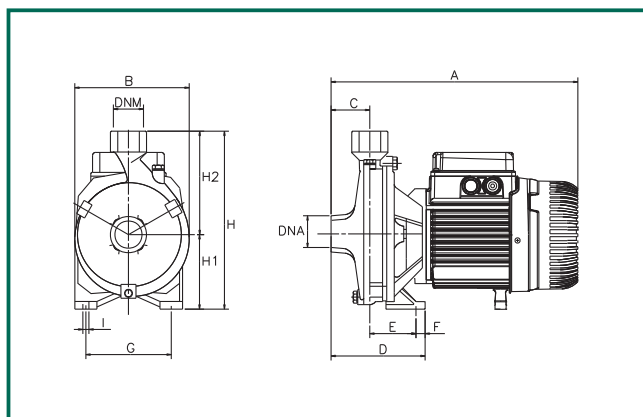


- Operating range: from 1.8 to 96 m³/h with head up to 62 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: K 20/41, K 30/70, K 30/100, K 36/100 : from -10°C to +50°C
K 12/200, K 36/200, K 40/200 : from -15°C to +110°C
The rest of the range
- Maximum ambient temperature: +40°C
- Maximum operating pressure: K 20/41, K 30/70, K 30/100, K 36/100, K 12/200, K 14/400 : 6 bar (600 kPa)
K 36/200, K 40/200, K 55/200, K 11/500, K 18/500, K 28/500 : 8 bar (800 kPa)
K 40/400, K 50/400, K 30/800, K 40/800, K 50/800, K 20/1200, K 25/1200, K 35/1200 : 10 bar (1000 kPa)
- Installation: fixed in a horizontal or vertical position, as long as the motor is above the pump
- Special executions on request: other voltages and/or frequencies

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Maximum ambient temperature: +40°C

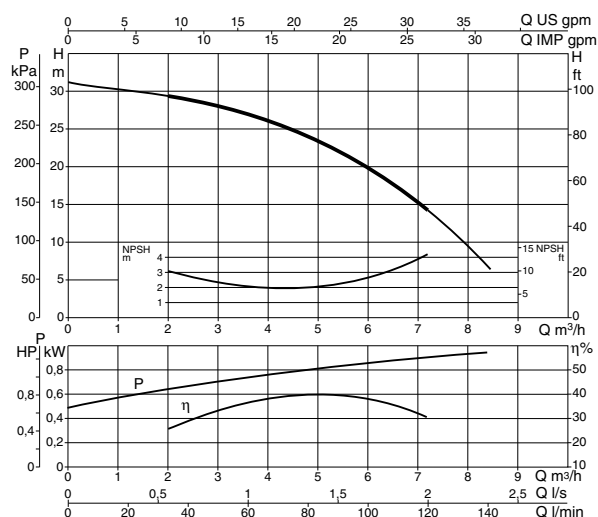
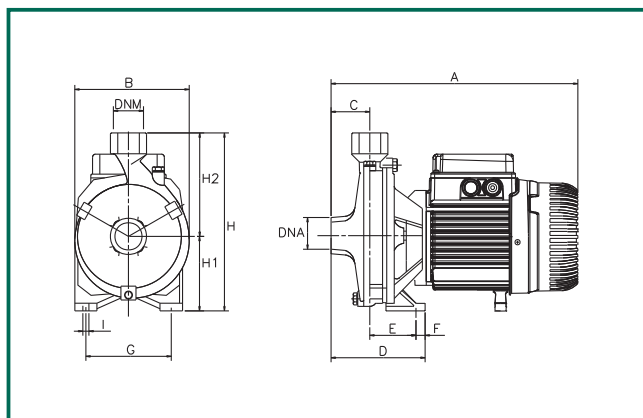
K 20/41



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 20/41	300	160	50	100	50	15	110	9	205	85	120	1" G-M	1" G-M	332	202	257	0,024	10,1

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2800 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	HP	In A	I st. A	1/min	η max %	cos φ	CAPACITOR μF Vc	Q m³/h l/min	0	1,8	2,4	3,6	4,8	6
K 20/41 M	1x220-240 V ~	0,65	0,37	0,5	3	8,5	2800	66,8	0,98	10 450	H (m)	22	20,2	19,4	17	13,5	8
K 20/41 T	3x230-400 V ~	0,64	0,37	0,5	2,3-1,3	8,6-5	2800	72,9	0,78	— —							

K 30/70



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 30/70	330	185	50	108	58	15	140	9	235	100	135	1" G-M	1" G-M	386	226	272	0,024	14,8

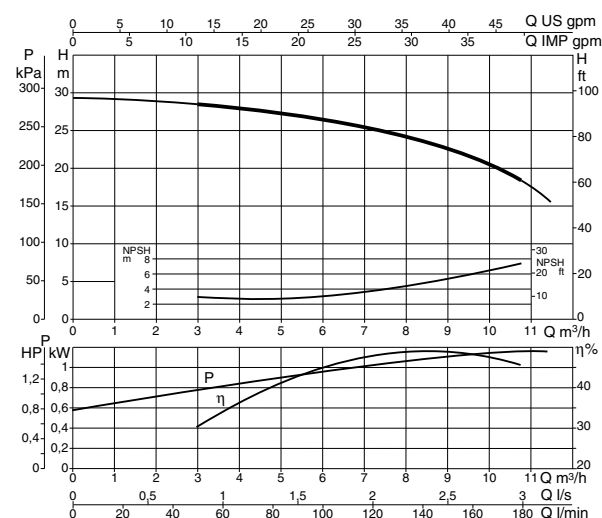
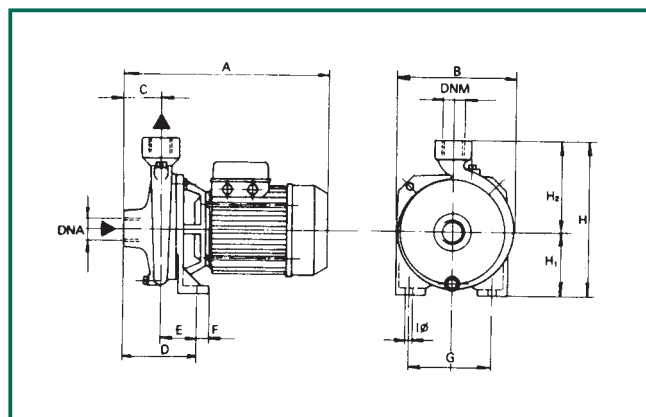
MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2800 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q m³/h	0	1,8	2,4	3,6	4,8	6	7,2
			kW	HP						μF	Vc	l/min	0	30	40	60	80	100	120
K 30/70 M	1x220-240 V ~	1,3	0,75	1	6	15,8	2800	71,4	0,96	20	450	H (m)	31,8	29,5	28,9	27	24,2	19,8	13,5
K 30/70 T	3x230-400 V ~	1,2	0,75	1	4,3-2,5	22,1-12,8	2820	76,4	0,79	–	–								

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C

Maximum ambient temperature: +40°C

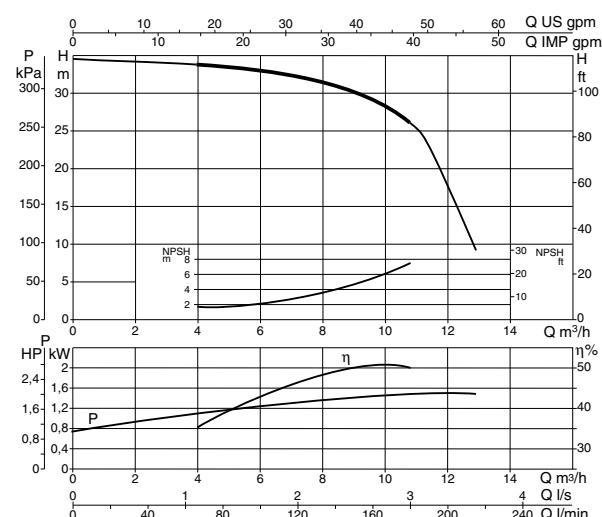
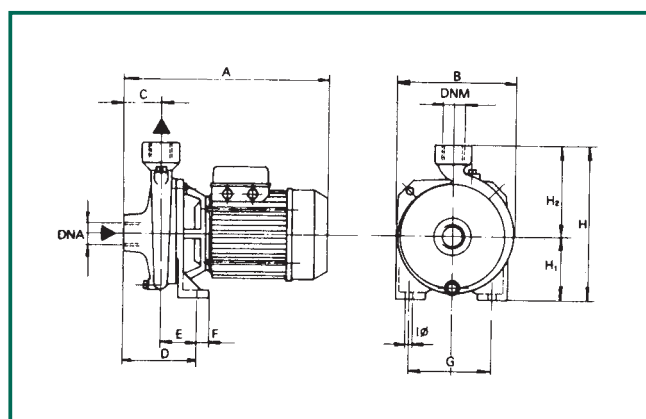
K 30/100



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 30/100	333	200	50	114	64	15	140	9	255	105	150	1 1/2" G	1" G	427	246	307	0,032	18,5

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2800 1/min)											
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q										
			kW	HP						μF	Vc	m³/h	0	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8	
K 30/100 M	1x220-240 V ~	1,6	1,1	1,5	7,1	33	2800	75,6	0,97	31,5	450	H	29,2	29	28,8	28	26,8	25,3	23,5	21,5	18,5	
K 30/100 T	3x230-400 V ~	1,63	1,1	1,5	5,5-3,2	31,1-18	2860	78,9	0,82	—	—											

K 36/100



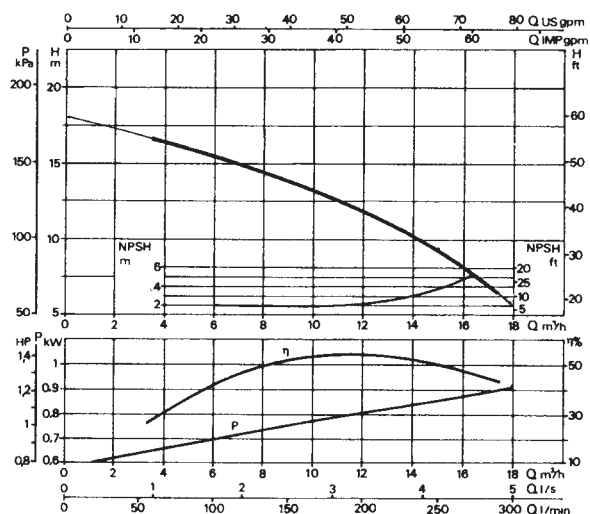
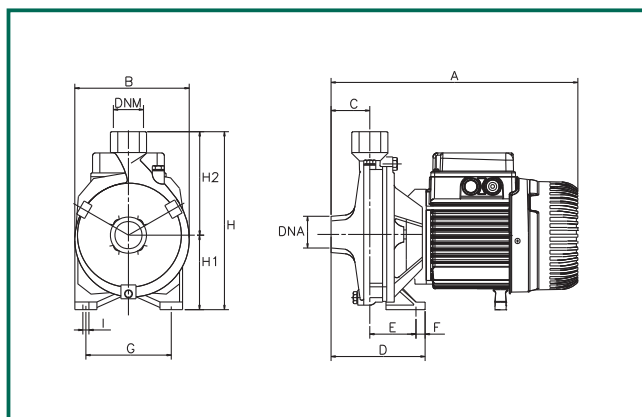
MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 36/100	333	200	50	114	64	15	140	9	255	105	150	1 1/2" G	1" G	427	246	307	0,032	19,7

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2800 1/min)											
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q m³/h	0	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8	
			kW	HP						μF	Vc	l/min	0	40	60	80	100	120	140	160	180	
K 36/100 M	1x220-240 V ~	2,1	1,85	2,5	8,8	45	2850	80,2	0,96	40	450	H	(m)	34,9	34,8	34,6	34	33	32	30,8	29	26,5
K 36/100 T	3x230-400 V ~	2	1,85	2,5	6,9-4	37,5-21,7	2870	80,7	0,78	—	—											

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Maximum ambient temperature: +40°C

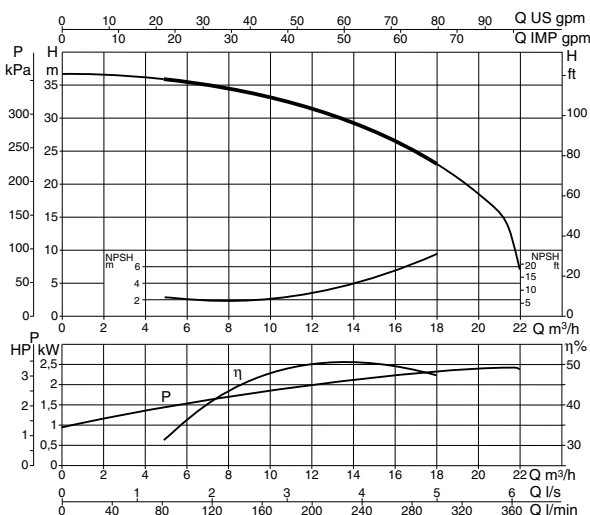
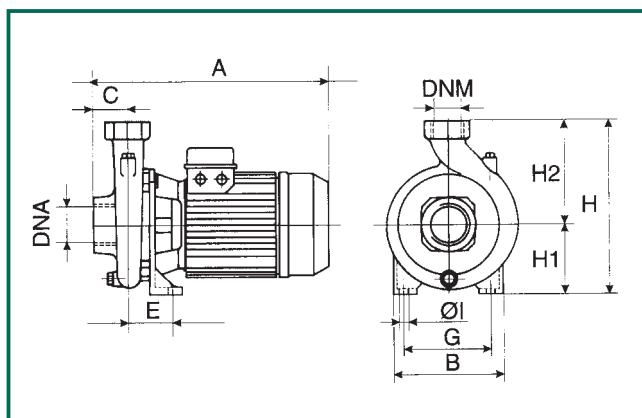
K 12/200



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 12/200	335	169	45	114	69	15	110	9	210	85	125	1½" G-M	1½" G-M	392	232	280	0,024	14

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2800 1/min)														
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q													
			kW	HP						μF	Vc	m³/h	0	2,4	3,6	4,8	6	7,2	9,6	12	14,4	16,8	l/min	0	40
K 12/200 M	1x220-240 V ~	1,05	0,75	1	4,6	18,5	2790	73,5	0,98	20	450	H (m)	18,4	17,2	16,5	16	15,3	14,7	13,1	11,4	9,5	6,8			
K 12/200 T	3x230-400 V ~	1,02	0,75	1	3,6-2,1	22,1-12,8	2860	78,9	0,72	—	—														

K 36/200



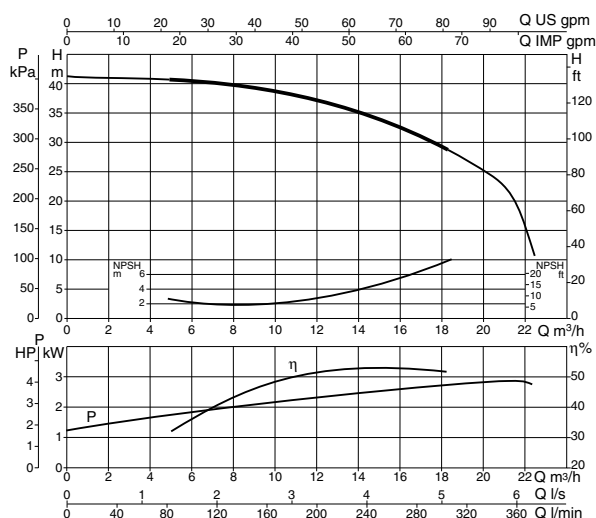
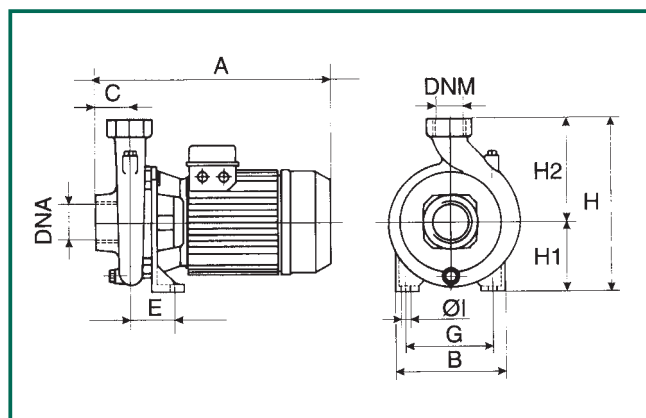
MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
												L/A	L/B	H	m ³	Kg
K 36/200 T	425	250	55	86	175	14	320	135	185	2" G	1¼" G	512	276	345	0,049	32,1

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2860 1/min)													
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q													
			kW	HP						m³/h	0	2,4	4,8	7,2	9,6	10,8	12	14,4	16,8	18			
											l/min	0	40	80	120	160	180	200	240	280	300		
K 36/200 T	3x230-400 V ~	3	2,2	3	9-5,2	45-26	2860	78,2	0,87		H (m)	36,6	36,5	36	35	33,3	32,5	31,5	29	25,6	23,5		

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +50°C
Maximum ambient temperature: +40°C

K 40/200

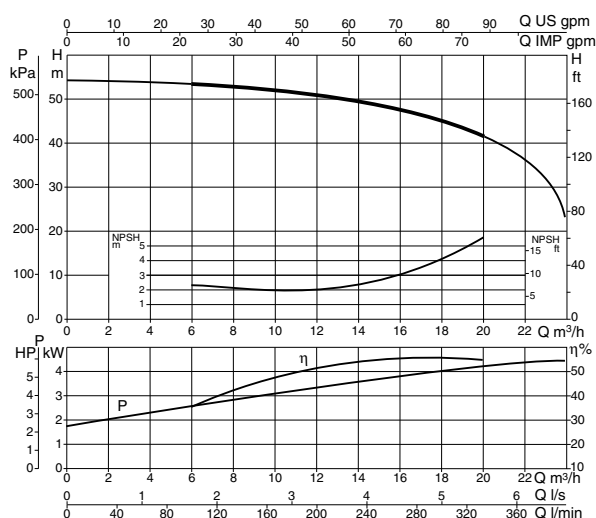
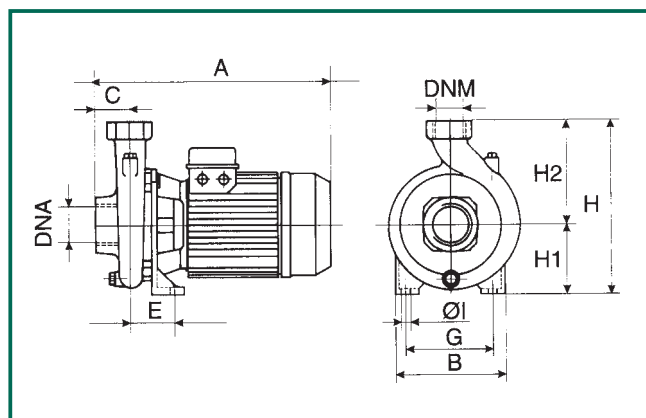


MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
												L/A	L/B	H	m ³	Kg
K 40/200	425	250	55	86	175	14	320	135	185	2" G	1 1/4" G	512	276	345	0,049	33,9

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≈ 2830 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	4,8	7,2	9,6	12	14,4	16,8	18,6
K 40/200 T	3x230-400 V ~	4	3	4	11,1-6,4	67,5-39	2830	78,9	0,84	Q l/min	0	80	120	160	200	240	280	310
										H (m)	41,3	41	40	38,8	37	34	31	28

K 55/200

Liquid temperature range: da -15°C to +110°C
Maximum ambient temperature: +40°C



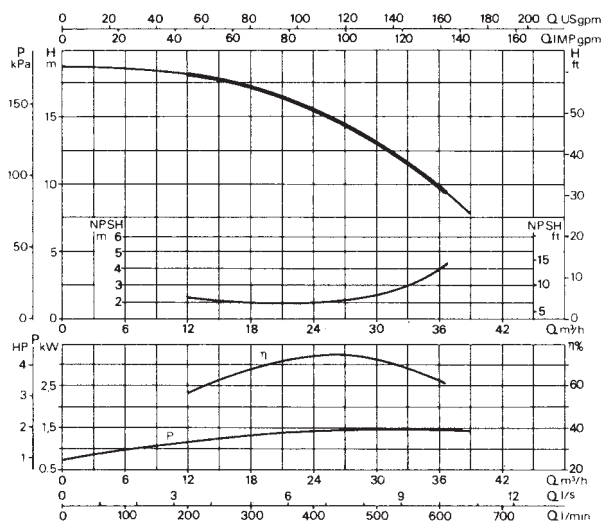
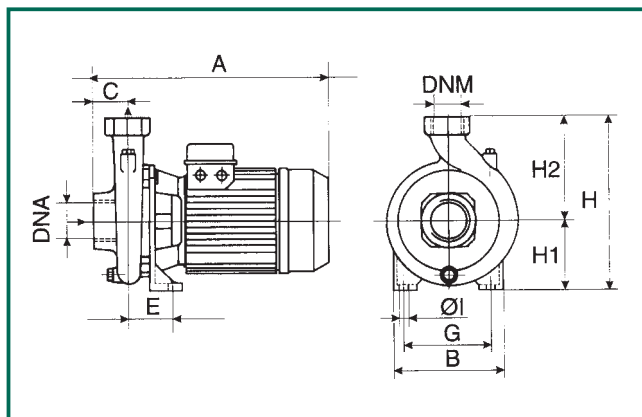
MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
												L/A	L/B	H	m ³	Kg
K 55/200	425	250	55	86	175	14	320	135	185	2" G	1 1/4" G	512	276	345	0,049	33,9

MODEL	ELECTRICAL DATA								HYDRAULIC DATA (n ≈ 2880 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	7,2	9,6	12	14,4	16,8	19,2
K 55/200 T	3x230-400 V ~	5,1	4	5,5	16,3-9,4	104-60	2880	81,2	0,83	Q l/min	0	100	120	160	200	240	280	320
										H (m)	54	54	53,9	53	51,5	49,3	46,5	43,5

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

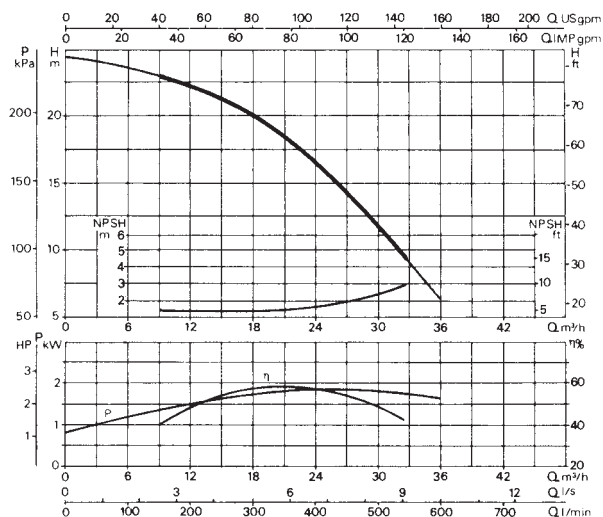
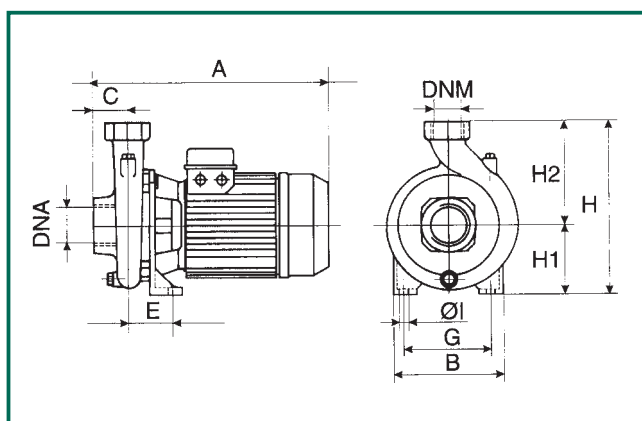
K 14/400



MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
												L/A	L/B	H	m ³	Kg
K 14/400 M	430	200	62	74	120	11	270	105	165	2" G	2" G	427	246	307	0,032	24,5
K 14/400 T	358	200	62	74	120	11	270	105	165	2" G	2" G	427	246	307	0,032	22

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n = 2850 1/min)												
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q m³/h	0	6	9	12	15	18	24	30	36	39	
K 14/400 M	1x220-240 V ~	2,1	1,85	2,5	9,5	38	2850	72,0	0,95	40	450	H (m)	19	19	18,9	18,8	18,5	18	16,3	13,8	10	8,2	
K 14/400 T	3x230-400 V ~	2,1	1,85	2,5	7-4	37,5-21,7	2850	80,5	0,83	—	—												

K 11/500



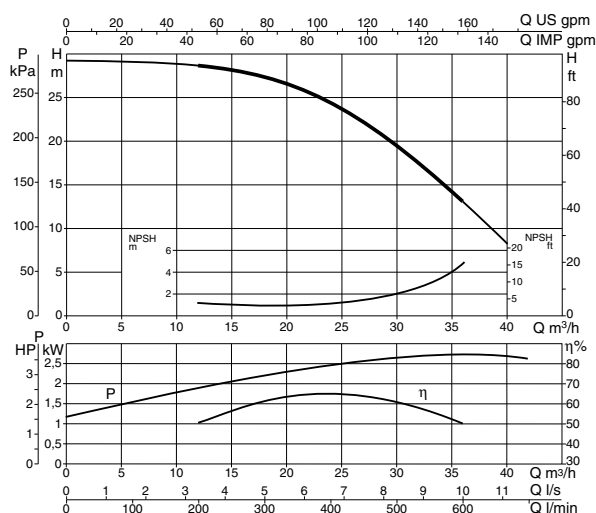
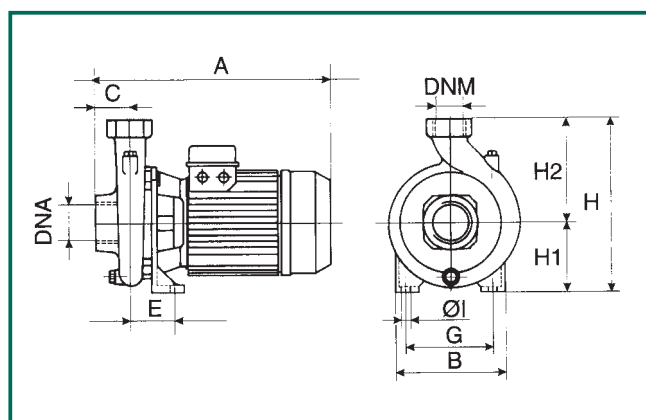
MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
												L/A	L/B	H	m ³	Kg
K 11/500	440	240	62	100	155	14	312	132	180	2 1/2" G	2" G	512	286	345	0,049	33,2

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)											
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q											
			kW	HP						m³/h	0	6	9	12	15	18	24	30	36		
											l/min	0	100	150	200	250	300	400	500	600	
K 11/500 T	3x230-400 V ~	2,6	2,2	3	7,6-4,4	45-26	2900	81,2	0,81		H (m)	24,5	23,5	23	22,5	21,5	20	16,5	11,5	6,5	

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

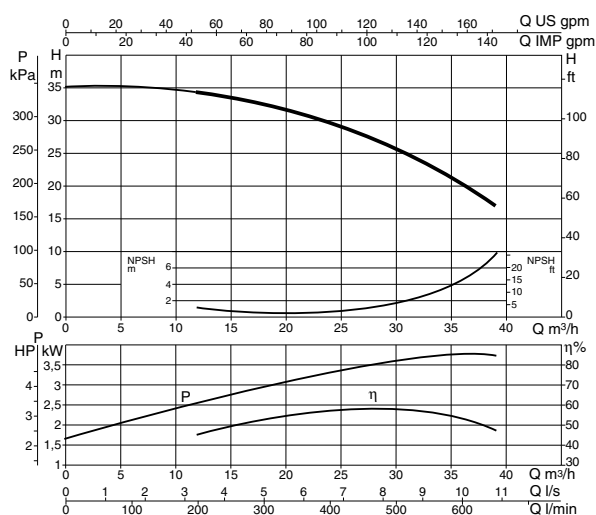
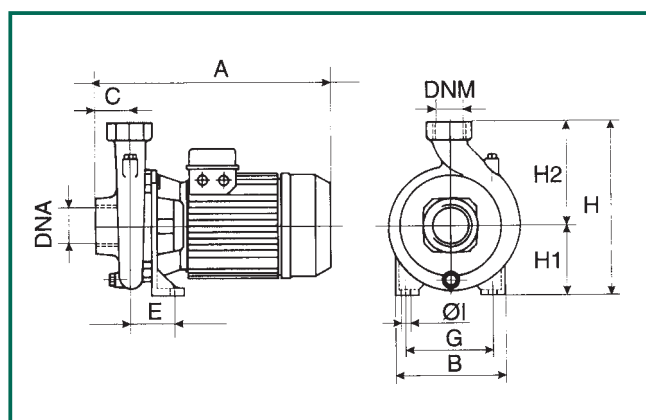
K 18/500



MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
K 18/500	440	240	62	100	155	14	312	132	180	2 1/2" G	2" G	L/A	L/B	H	0,049	35,6

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q									
			kW	HP						m³/h	0	6	12	15	18	24	30	36	
K 18/500 T	3x230-400 V ~	3,4	3	4	10,2-5,9	67,5-39	2870	81,2	0,83	H (m)	29,6	29,5	29,2	28,5	27,4	24	19,5	13,8	

K 28/500



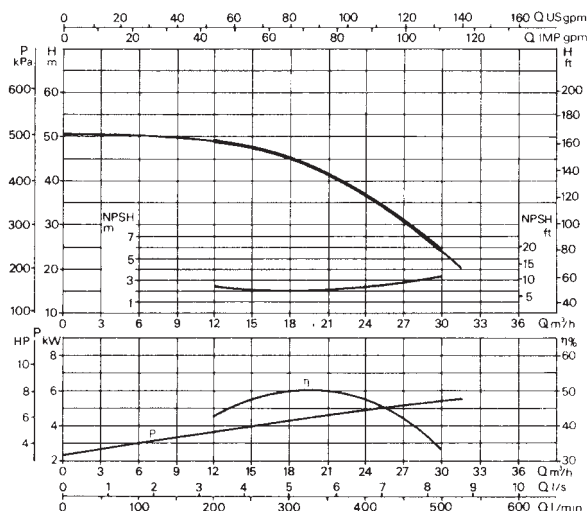
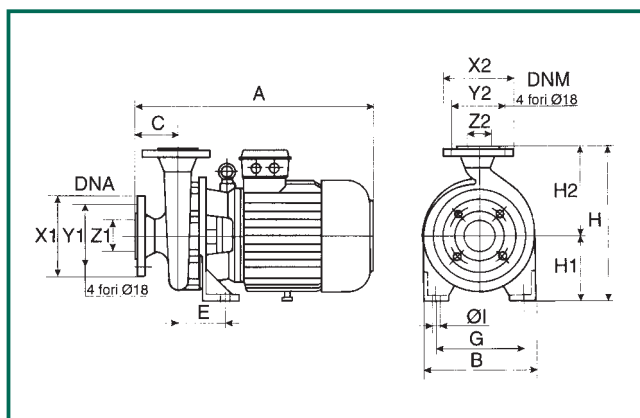
MODEL	A	B	C	E	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
K 28/500	440	240	62	100	155	14	312	132	180	2 1/2" G	2" G	L/A	L/B	H	0,049	39,6

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q									
			kW	HP						m³/h	0	6	12	18	24	30	36	39	
K 28/500 T	3x230-400 V ~	4,6	4	5,5	14,7-8,5	104-60	2880	82,6	0,81	H (m)	35	35	34,5	32,8	29,3	25,2	20	16,8	

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 40/400

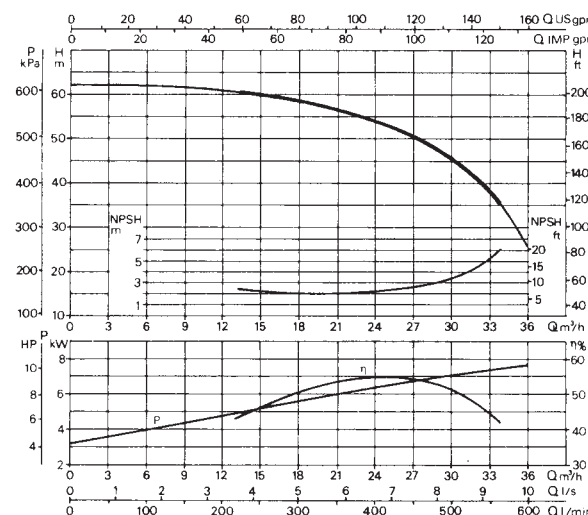
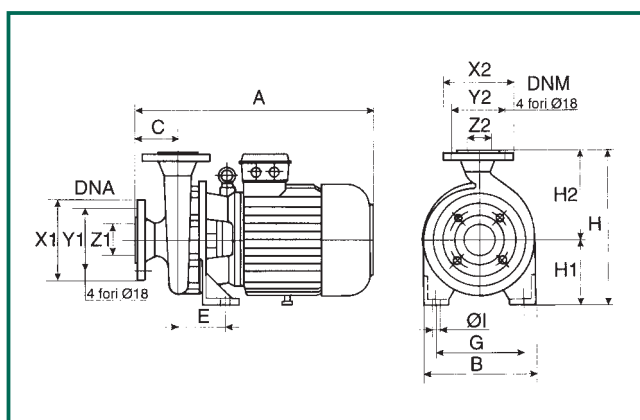


MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 40/400	560	273	100	110	212	14	360	160	200	185	145	65	165	125	50	680	330	572	0,128	78,8

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n = 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW HP		In A	I st. A	1/min	η max %	cos φ	Q									
										m³/h l/min	0	6	9	12	15	18	24	30	
K 40/400 T	3x400 V ~ *	7	5,5	7,5	11,5	78	2900	81,6	0,86	H (m)	50,5	50	49,8	49	48	45	37	24	

* Star starting is possible (λ)

K 50/400



MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 50/400	560	273	100	110	212	14	360	160	200	185	145	65	165	125	50	680	330	572	0,128	78,8

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n = 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW HP		In A	I st. A	1/min	η max %	cos φ	Q									
										m³/h l/min	0	6	9	12	15	18	24	30	33
K 50/400 T	3x400 V ~ *	9,4	7,5	10	15	119	2900	83,9	0,86	H (m)	62	62	62	61	60	59	54,5	46	37

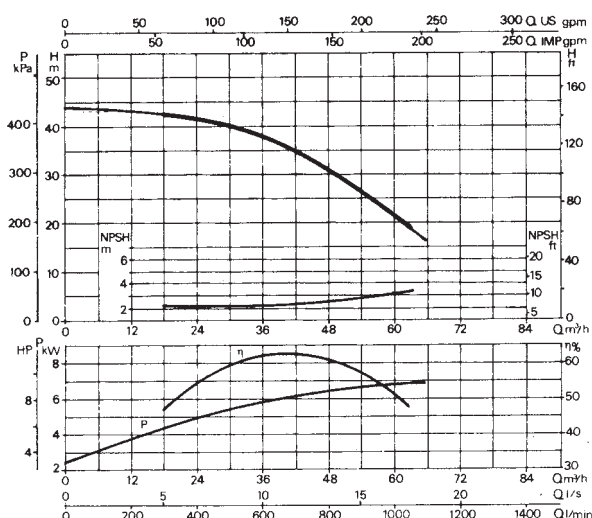
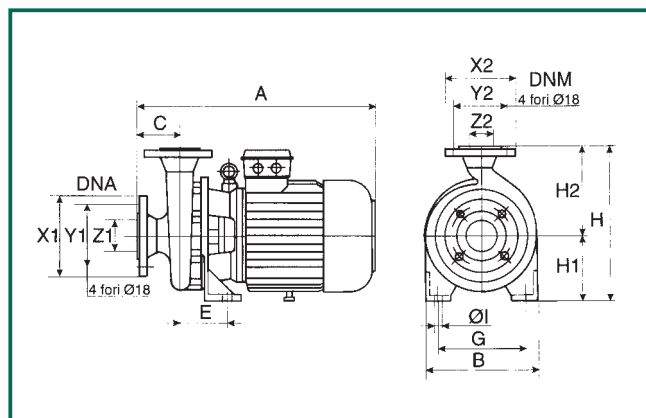
* Star starting is possible (λ)

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C

Maximum ambient temperature: +40°C

K 30/800

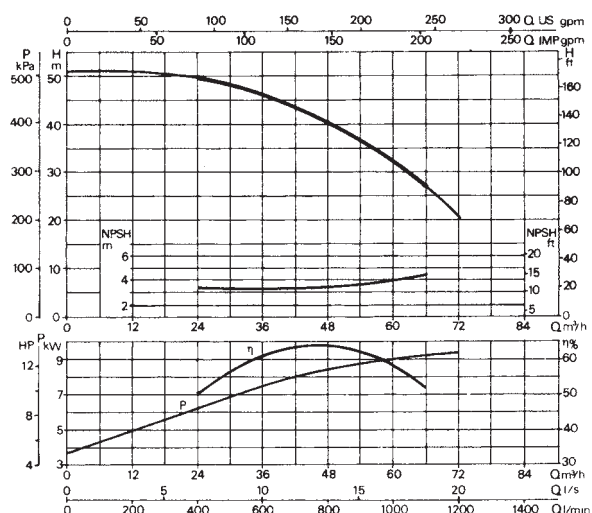
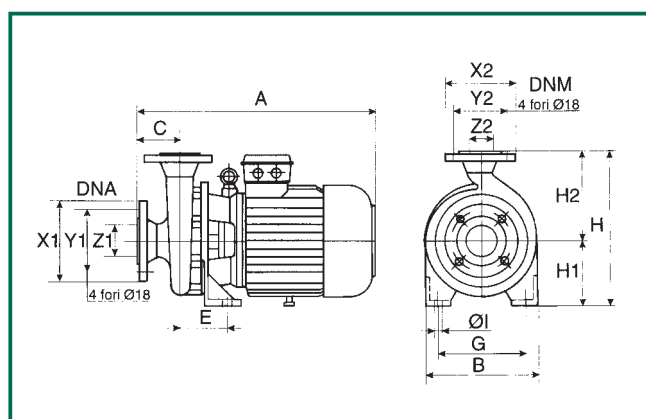


MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 30/800	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	90,2

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	24	36	48	60	66
										m³/h l/min						
K 30/800 T	3x400 V ~ *	8,3	7,5	10	14	119	2900	83,9	0,85	H (m)	44	42	38	31	21,5	17,7

* Star starting is possible (Δ)

K 40/800



MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 40/800	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	95

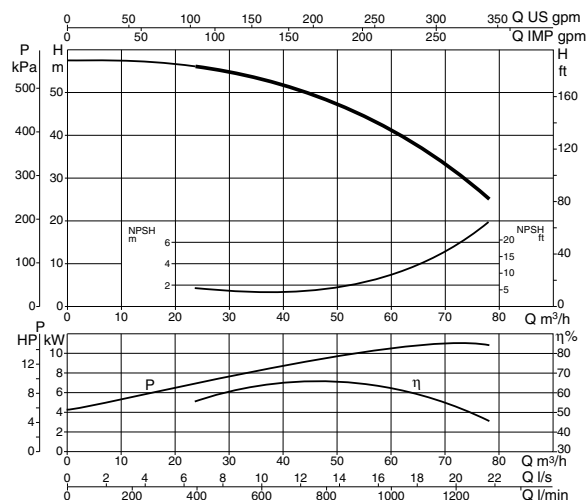
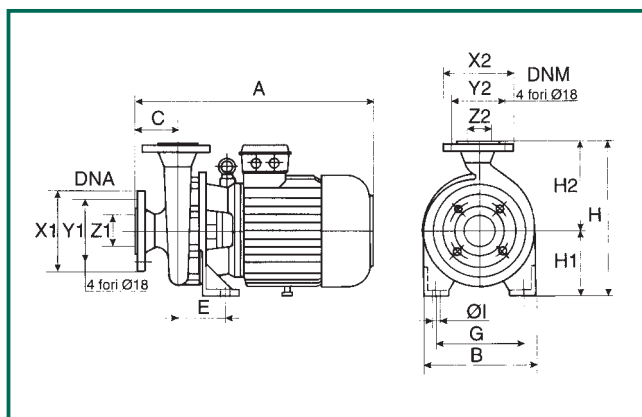
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)						
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	24	36	48	60	66
										m³/h l/min						
K 40/800 T	3x400 V ~ *	11	9,2	12,5	18	147,0	2900	83,9	0,87	H (m)	51,5	50	47	41	32,5	21

* Star starting is possible (Δ)

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 50/800

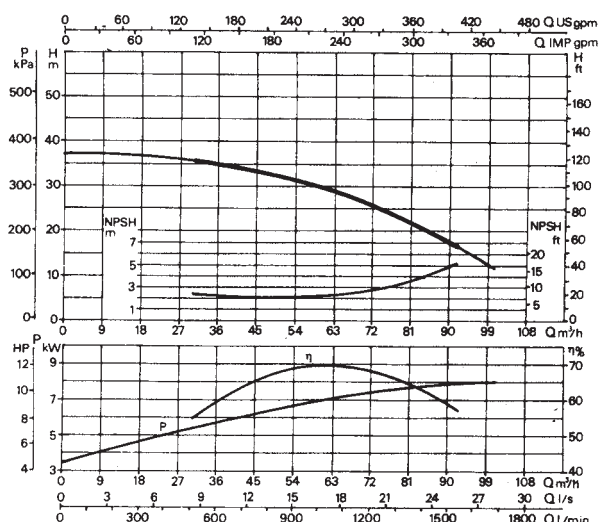
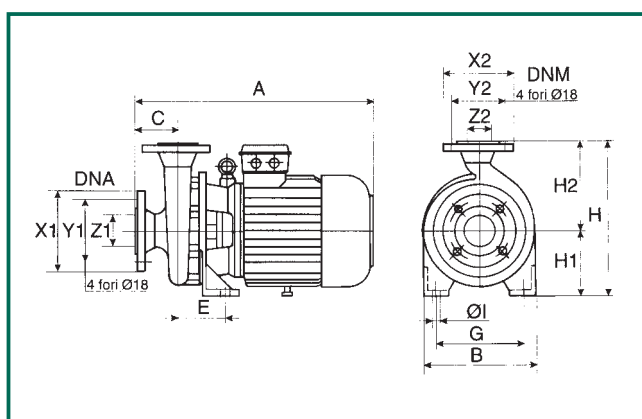


MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 50/800	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	104,3

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	24	36	48	60	72	78
			kW	HP						m³/h		l/min	400	600	800	1000	1200
K 50/800 T	3x400 V ~ *	12,75	11	15	20,5	183	2930	86,7	0,89	H (m)	58	56,5	53,5	48	41	31	25

* Star starting is possible (Δ)

K 20/1200



MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 20/1200	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	88

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	36	48	60	72	78	84	96
			kW	HP						l/min	0	600	800	1000	1200	1300	1400	1600
K 20/1200 T	3x400 V ~ *	8,9	7,5	10	15,4	119	2900	84,2	0,85	H (m)	37,5	35	33	30	26	23,5	21	15

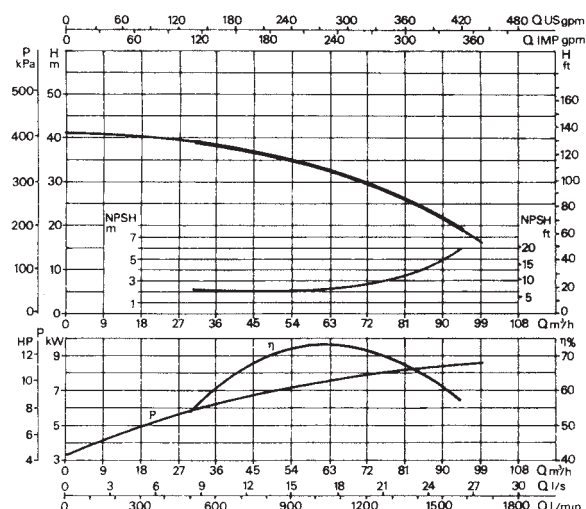
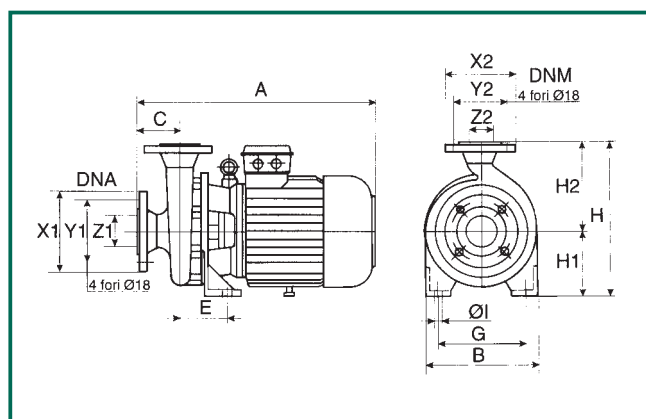
* Star starting is possible (Δ)

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C

Maximum ambient temperature: +40°C

K 25/1200

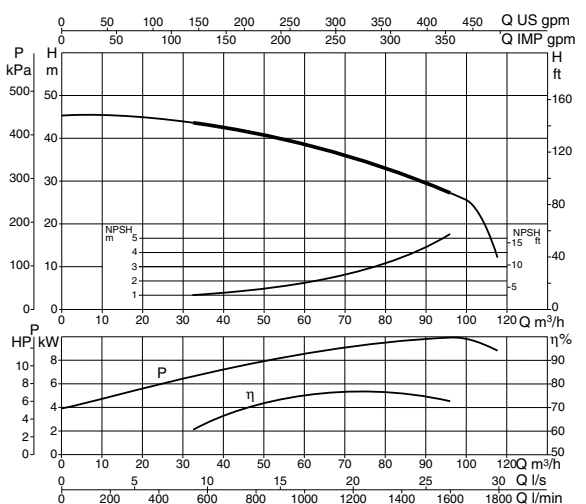
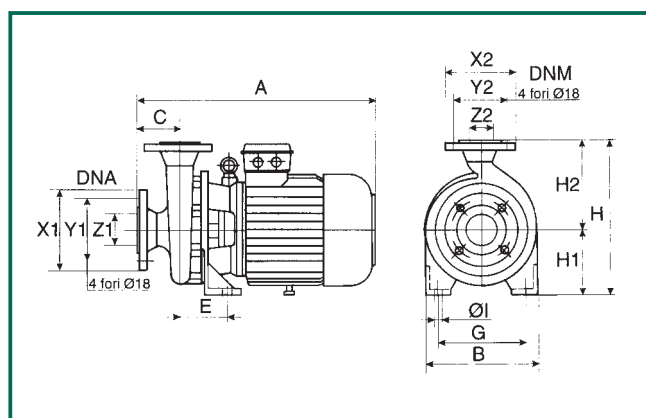


MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 25/1200	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	572	0,128	94

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	36	48	60	72	78	84	96
			kW	HP						l/min	0	600	800	1000	1200	1300	1400	1600
K 25/1200 T	3x400 V ~ *	10	9,2	12,5	18	147	2900	84,8	0,87	H (m)	40,7	38	36	33,5	30	27,7	25	18

* Star starting is possible (Δ)

K 35/1200



MODEL	A	B	C	E	G	I	H	H1	H2	DNA			DNM			PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
										x1	y1	z1	x2	y2	z2	L/A	L/B	H		
K 35/1200	600	273	100	110	212	14	385	160	225	200	160	80	185	145	65	680	330	275	0,128	100

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2930 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	33	48	60	72	84	96
			kW	HP						l/min	0	550	800	1000	1200	1400	1600
K 35/1200 T	3x400 V ~ *	11,4	11	15	19,3	183	2930	86,8	0,87	H (m)	45	43,5	41,5	38,5	35	31,5	27

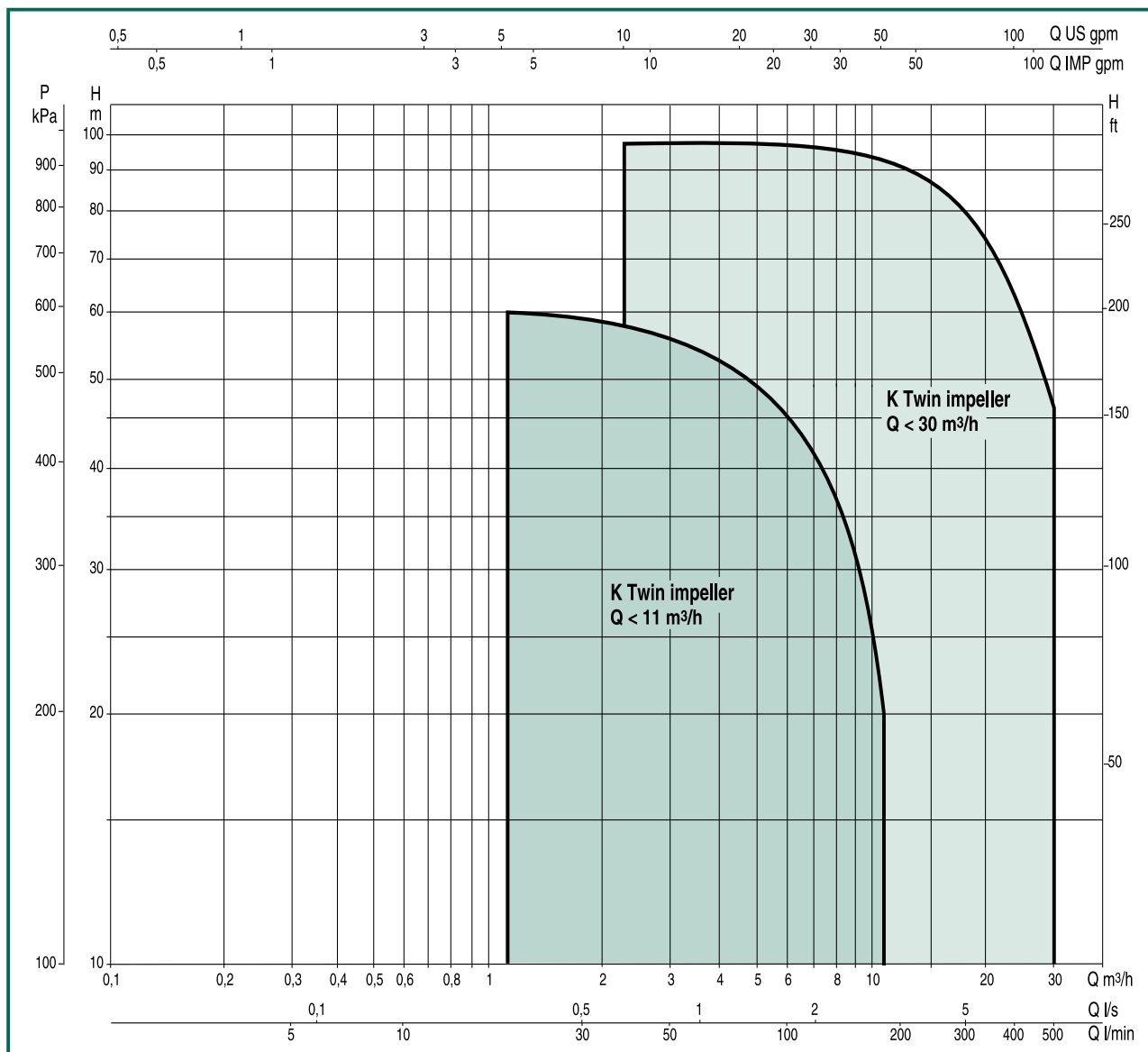
* Star starting is possible (Δ)

HORIZONTAL CENTRIFUGAL PUMPS

PERFORMANCE RANGE

GRAPHICAL SELECTION TABLE

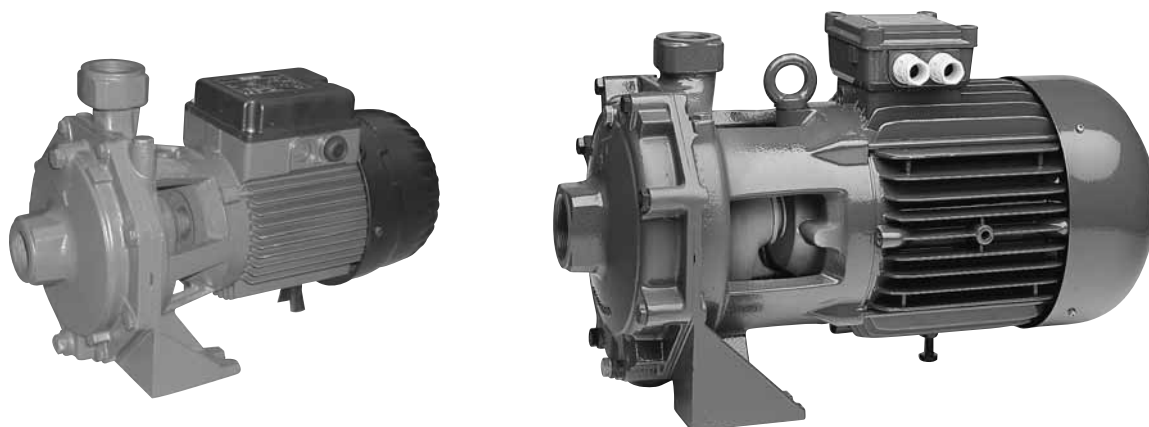
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.



MODEL		P2 NOMINAL		Q m³/h l/min	Q																									
SINGLE-PHASE	THREE-PHASE	kW	HP		0	0,3	0,6	0,9	1,2	1,8	2,4	3,6	4,8	6	7,2	9	9,6	10,8	12	15	18	24	30	36	42	60	72	84	96	
					0	5	10	15	20	30	40	60	80	100	120	150	160	180	200	250	300	400	500	600	700	1000	1200	1400	1600	
K 35/40 M	K 35/40 T	0,75	1	H (m)	43,5				41,5	40	38	33	23,5																	
K 45/50 M	K 45/50 T	1,1	1,5		51					49	47,5	46	42	37	30															
K 55/50 M	K 55/50 T	1,85	2,5		62					60	58	57	52	45	34															
K 35/100 M	K 35/100 T	1,1	1,5		38,5						37,5	36,5	35	32	28,5	18,5	17,5													
K 40/100 M	K 40/100 T	1,85	2,5		44						43,4	42,5	41	39	35,7	29	26	18,5												
—	K 55/100 T	2,2	3	H (m)	62					59,5	57	54,5	51	47	39	36														
—	K 66/100 T	3	4		73						70	67,5	64	60,5	57	49	47													
—	K 90/100 T	4	5,5		83,5						82	79,5	76,5	72,5	68	61	58													
—	K 70/300 T	5,5	7,5		76									74	73	72	71,5	70	69	65	60,5	43,5								
—	K 80/300 T	7,5	10		95										93	92,2	91	90,5	90	89,5	87	82	68							
—	K 70/400 T	9,2	12,5		86												84	83,2	82,5	82	79	76	65	47						
—	K 80/400 T	11	15		97													95	94,5	94	92	89	80	64						

K

TWIN IMPELLER PUMPS



GENERAL DATA

Applications

Twin-impeller centrifugal pump designed for use in pressurisation units for water supply systems and for supplying pressurised tanks.

Suitable also for sprinkling irrigation and other water supply applications.

Constructional features of the pump

Cast iron pump body and motor support.

Technopolymer impeller.

Carbon/ceramic mechanical seal.

Constructional features of the motor

Induction motor, closed and cooled with external ventilation.

Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.

Built-in thermal and current overload protection and a capacitor permanently in circuit in the single-phase version.

Three-phase motors should be protected with a suitable overload protection complying with the regulations in force.

Manufactured according to CEI 2-3 standards.

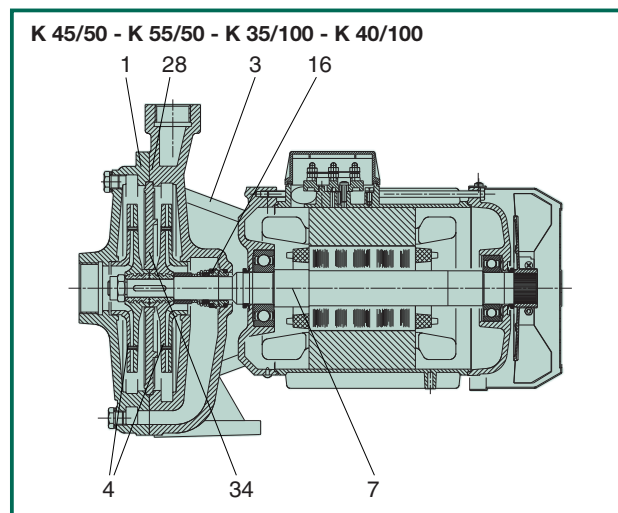
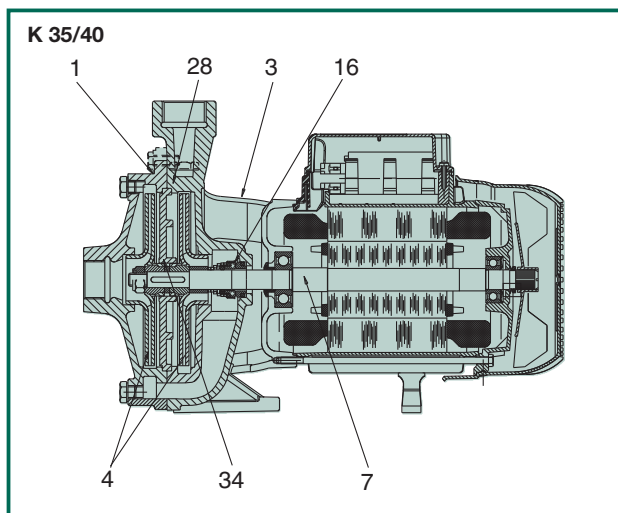
Motor protection: IP55, IP 44 for the models K 35/40, K 45/50, K 55/50, K 35/100, K 40/100

Terminal box protection: IP55

Insulation class: F

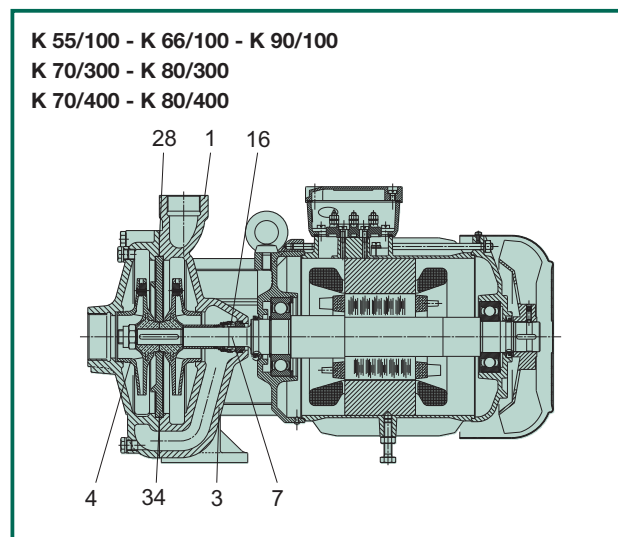
Standard voltage:	single-phase	220-240 V/50 Hz
	three-phase	220-400 V/50 Hz up to and including 4 kW
		400 V 50 Hz over 4 kW

TECHNICAL DATA



N.	PARTS*	MATERIALS	MODELS
1	PUMP BODY	CAST IRON 200 UNI ISO 185	
3	SUPPORT	CAST IRON 200 UNI ISO 185	
4	IMPELLER	TECHNOPOLYMER A	K 35/40; K 45/50; K 35/100; K 40/100; K 55/100
		TECHNOPOLYMER B	K 55/50; K 66/100; K 90/100; K 70/300; K 80/300; K 70/400; K 80/400
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12CrS13 UNI 6900/71	K 35/40
		STAINLESS STEEL AISI 303 X10CrNiS 1089 UNI 6900/71	K 45/50; K 55/50; K 35/100; K 40/100; K 55/100; K 66/100; K 90/100
		STAINLESS STEEL AISI 304 X5 Ni 1810 UNI 6900/71	K 70/300; K 80/300; K 70/400; K 80/400
16	MECHANICAL SEAL	CARBON/CERAMIC	
28	GASKET	NBR RUBBER	K 35/40; K 45/50; K 55/50; K 55/100; K 35/100; K 40/100
		GUARNITAL	K 66/100; K 90/100; K 70/300; K 80/300; K 70/400; K 80/400
34	INTERMEDIATE DISC	CAST IRON 200 UNI ISO 185	K 35/40; K 45/50; K 55/50; K 55/100; K 66/100; K 90/100; K 70/300; K 70/400; K 80/300; K 80/400

* In contact with the liquid.



- Operating range: from 1,2 to 30 m³/h with head up to 97 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range:

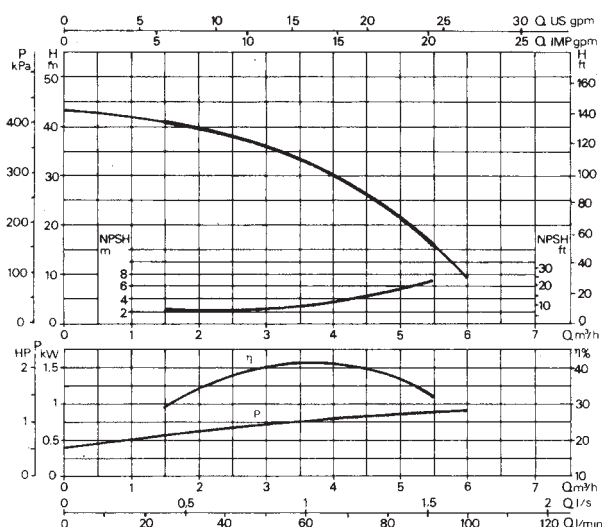
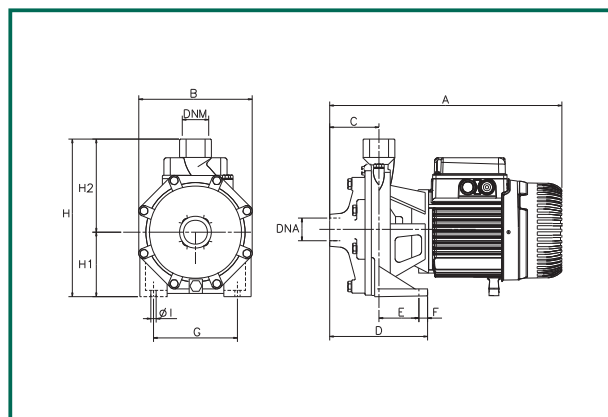
K 35/40, K 45/50, K 35/100, K 40/100, K 55/100	: from -10°C to +50°C
K 55/50, K 66/100, K 90/100 K 70/300, K 80/300, K 70/400, K 80/400	: from -15°C to +110°C
- Maximum ambient temperature: +40°C
- Maximum operating pressure:

K 35/40, K 35/100, K 40/100	: 6 bar (600 kPa)
K 45/50, K 55/50	: 8 bar (800 kPa)
K 55/100, K 66/100	: 10 bar (1000 kPa)
K 90/100, K 70/300, K 80/300 K 70/400, K 80/400	: 12 bar (1200 kPa)
- Installation: fixed in a horizontal or vertical position, as long as the motor is above the pump.
- Special executions on request: other voltages and/or frequencies

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Massima temperatura ambiente +40°C

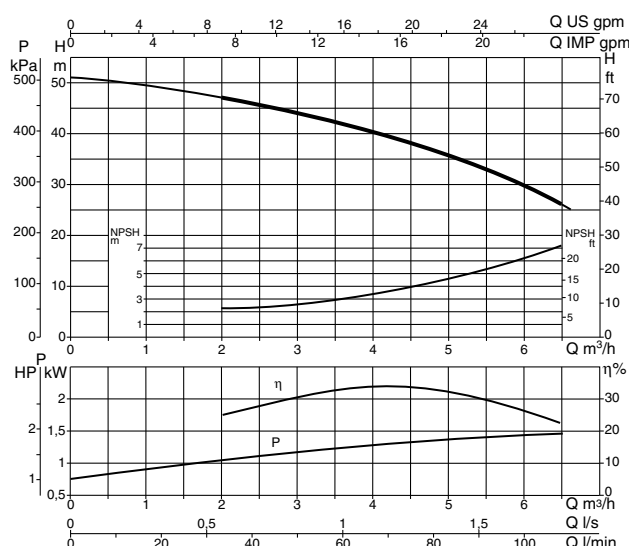
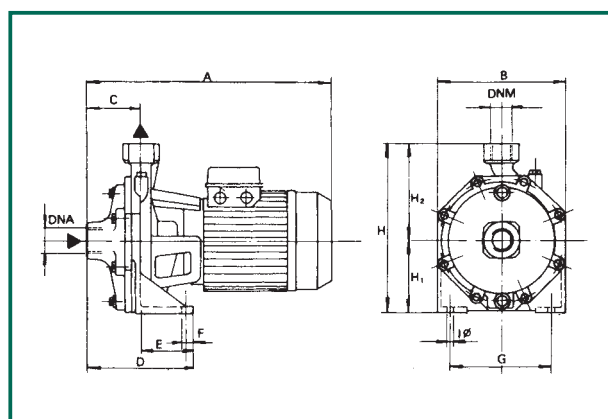
K 35/40



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 35/40	363	180	76	148	72	15	148	9,5	235	100	135	1" G	1" G	392	232	262	0,024	16,1

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2850 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q	0	1,2	2,4	3,6	4,8	5,5
			kW	HP						μF	Vc	m³/h l/min						
K 35/40 M	1x220-240 V ~	1,2	0,75	1	5,5	18,5	2800	72,8	0,96	20	450	H (m)	43,5	41,5	38	33	23,5	16
K 35/40 T	3x230-400 V ~	1,2	0,75	1	3,8-2,2	22,14-12,8	2850	78,6	0,77	—	—							

K 45/50



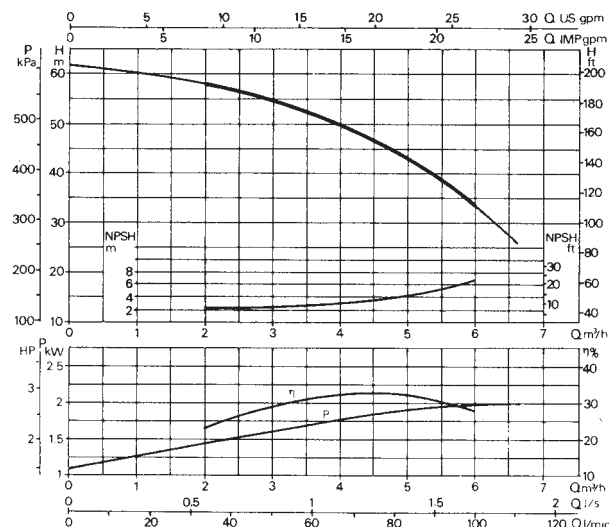
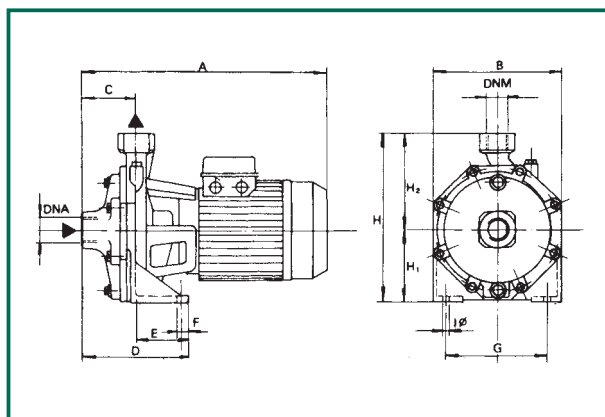
MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 45/50	370	210	75	144	69	15	165	11,5	268	118	150	1 1/4" G	1" G	415	234	295	0,028	23,3

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2850 1/min)								
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q m³/h	0	1,2	2,4	3,6	4,8	6	6,6
			kW	HP						μF	Vc	l/min	0	20	40	60	80	100	110
K 45/50 M	1x220-240 V ~	1,86	1,1	1,5	8,3	29,2	2800	73,1	0,97	31,5	450	H (m)	51	49	46	42	37	30	25
K 45/50 T	3x230-400 V ~	2	1,1	1,5	6-3,5	31,1-18	2850	79,2	0,81	—	—								

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C (K 55/50 da -15°C to +110°C)
Massima temperatura ambiente +40°C

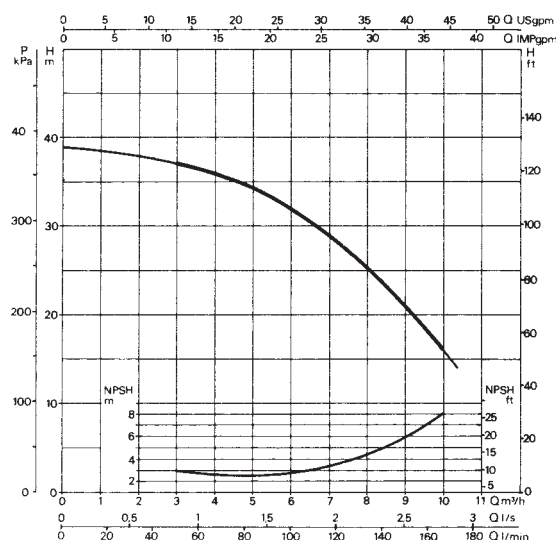
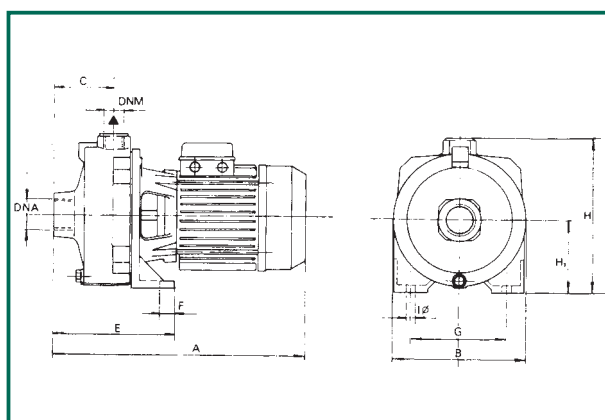
K 55/50



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 55/50	370	210	75	144	69	15	165	11,5	268	118	150	1 1/4" G	1" G	415	234	295	0,032	23,8

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)							
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	1,2	2,4	3,6	4,8	6	6,6
			kW	HP						m³/h							
K 55/50 M	1x220-240 V ~	2,7	1,85	2,5	12,8	48	2850	76,5	0,97	H (m)	62	60	57	52	45	34	26
K 55/50 T	3x230-400 V ~	2,5	1,85	2,5	8,4-4,8	37,6-21,7	2850	78,9	0,85								

K 35/100



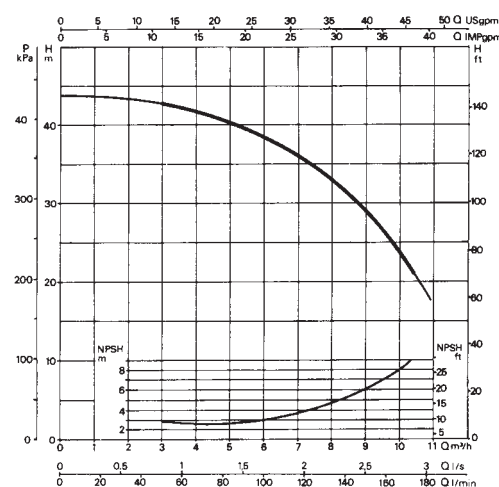
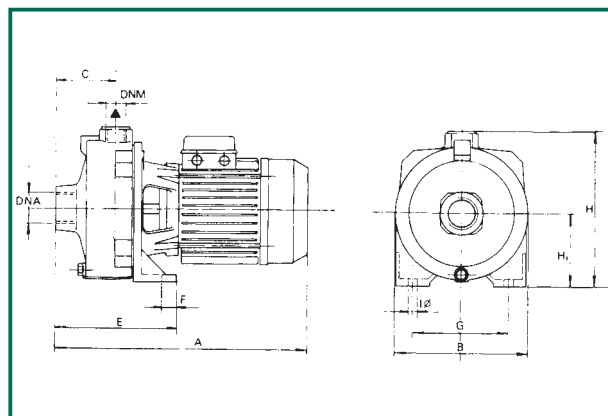
MODEL	A	B	C	E	F	G	I	H	H1	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
												L/A	L/B	H	m ³	Kg
K 35/100	387	205	88	179	20	145	11	233	108	1 1/2" G	1" G	415	234	295	0,028	21,5

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2850 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	CAPACITOR		Q	0	2,4	3,6	4,8	6	7,2	8,4	9	10,2
			kW	HP						μF	Vc	m³/h									
												l/min	0	40	60	80	100	120	140	150	170
K 35/100 M	1x220-240 V ~	1,56	1,1	1,5	7,1	33	2780	75,6	0,97	25	450	H									
K 35/100 T	3x230-400 V ~	1,65	1,1	1,5	5,36-3,1	31,1-18	2850	71,2	0,77	–	–	(m)	38,5	37,5	36,3	35	32	28,5	24	18,5	15,5

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -10°C to +50°C
Massima temperatura ambiente +40°C

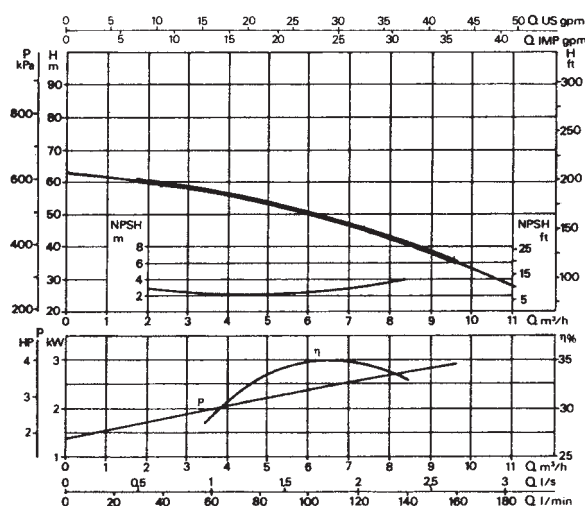
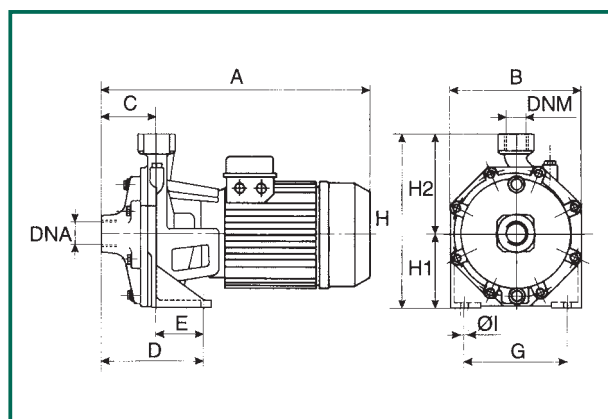
K 40/100



MODEL	A	B	C	E	F	G	I	H	H1	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
												L/A	L/B	H	m ³	Kg
K 40/100 M	461	205	88	179	20	145	11	233	108	1 1/2" G	1" G	510	234	285	0,034	25,9
K 40/100 T	387	205	88	179	20	145	11	233	108	1 1/2" G	1" G	415	234	295	0,028	22

MODEL	ELECTRICAL DATA										HYDRAULIC DATA (n ≈ 2900 1/min)																				
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW HP		In A	I st. A	1/min	η max %	cos φ	CAPACITOR μF Vc		Q																			
												m³/h																			
												l/min																			
K 40/100 M	1x220-240 V ~	2	1,85	2,5	9	45	2850	78,3	0,97	40	450	0	2,4	3,6	4,8	6	7,2	8,4	9	10,8	0	40	60	80	100	120	140	150	160	180	
K 40/100 T	3x230-400 V ~	2,0	1,85	2,5	6,2-3,6	37,6-21,7	2850	80	0,80	—	—	H (m)	44	43,4	42,5	41	39	35,7	32	29	18,5										

K 55/100



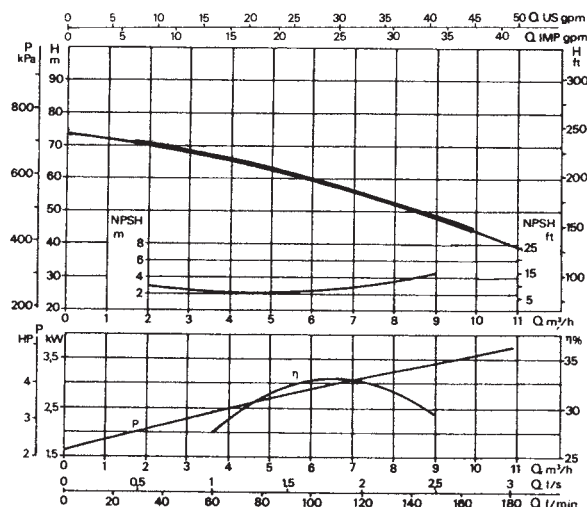
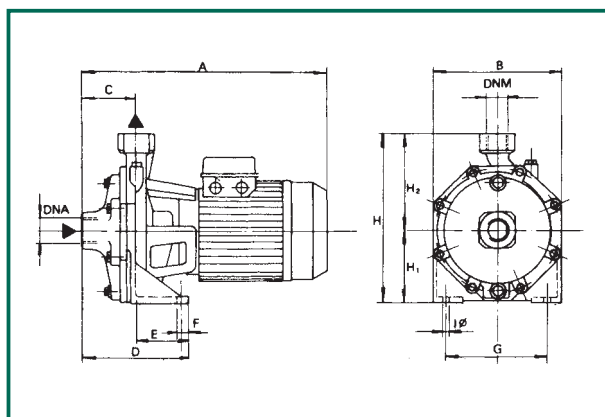
MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 55/100 T	450	256	88	160	72	18	200	14	312,5	140	172,5	1 1/2" G	1" G	500	274	333	0,045	37,1

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2850 1/min)											
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	1,2	2,4	3,6	4,8	6	6,6	7,2	8,4	9,6	
			kW	HP						m³/h											l/min
K 55/100 T	3x230-400 V ~	3,9	2,2	3	11,6-6,7	67,5-39	2850	79,9	0,86	H (m)	62	61	59,5	57	54,5	51	49	47	42	36	

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

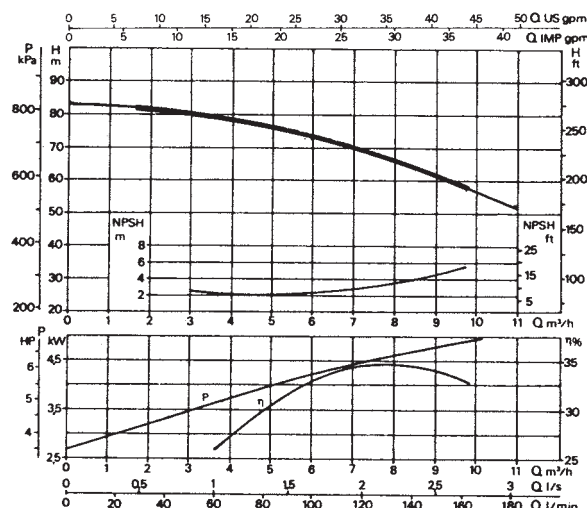
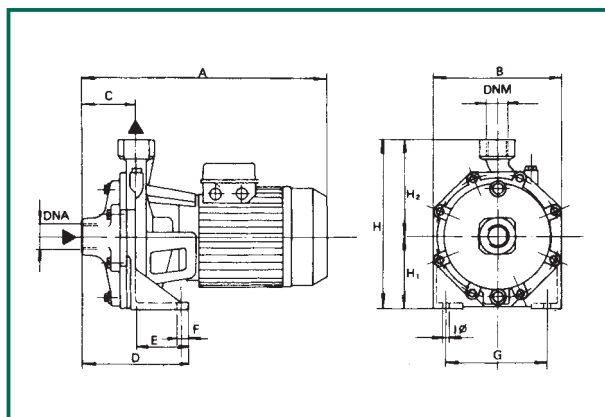
K 66/100



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 66/100	450	256	88	160	72	18	200	14	312,5	140	172,5	1½" G	1" G	500	274	333	0,045	39,7

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2850 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	1,2	2,4	3,6	4,8	6	6,6	7,2	8,4	9,6
			kW	HP						m³/h	l/min	0	20	40	60	80	100	110	120	140
K 66/100 T	3x230-400 V ~	4,7	3	4	14,6-8,4	103,8-60	2900	80,3	0,84	H (m)	73	72	70	67,5	64	60,5	58,5	57	52	47

K 90/100



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 90/100	450	256	88	160	72	18	200	14	312,5	140	172,5	1½" G	1" G	500	274	333	0,045	43

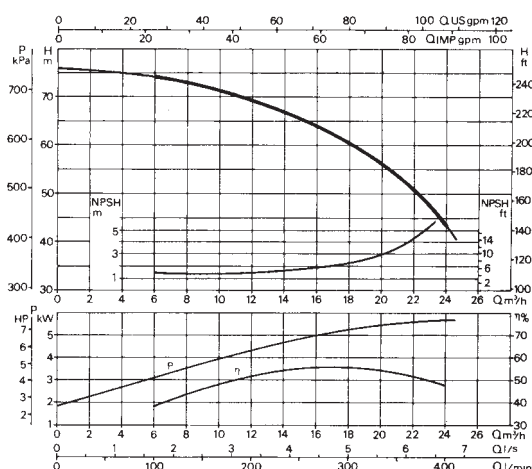
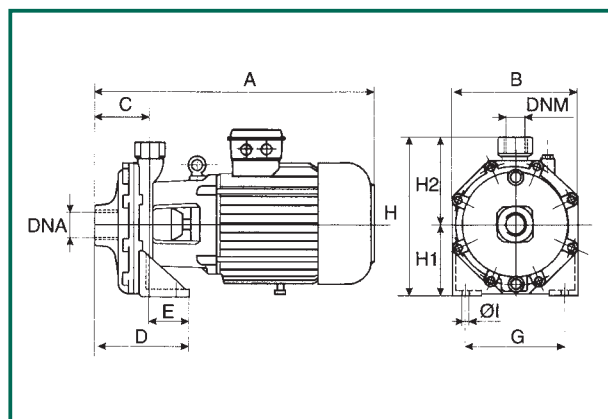
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2850 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	I st. A	1/min	η max %	cos φ	Q	0	1,2	2,4	3,6	4,8	6	6,6	7,2	8,4	9,6
			kW	HP						m³/h	l/min	0	20	40	60	80	100	110	120	140
K 90/100 T	3x230-400 V ~	5,4	4	5,5	16,5-9,5	103,8-60	2850	80,3	0,84	H (m)	83,5	82,5	82	79,5	76,5	72,5	70	68	63	58

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C

Maximum ambient temperature: +40°C

K 70/300

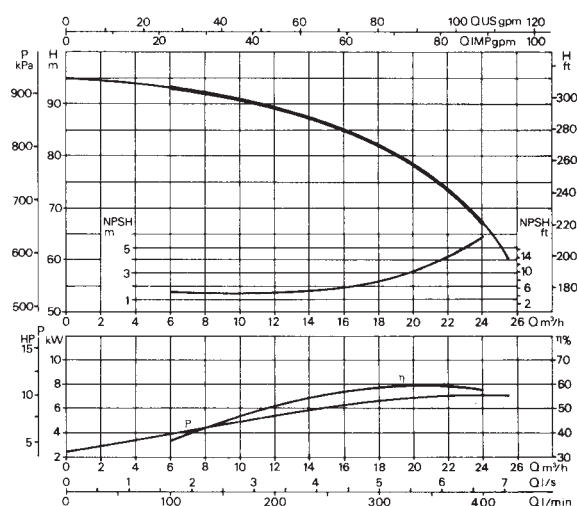
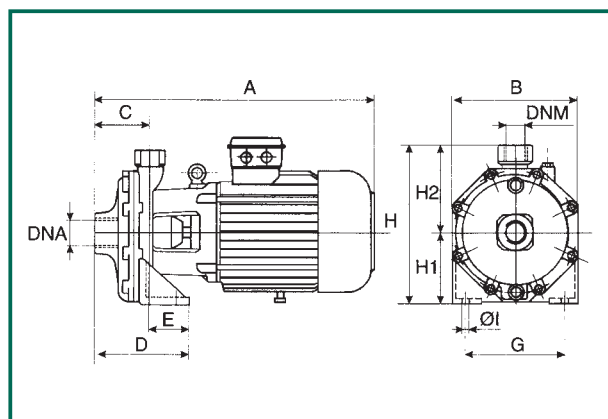


MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 70/300	595	270	122	182	60	20	210	14	340	160	180	2" G	1 1/4" G	680	330	470	0,106	72

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2900 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	7,2	8,4	9,6	10,8	12	18	24
K 70/300 T	3x400 V ~ Δ*	7,1	5,5	7,5	12,9	77,9	2900	81,6	0,82	H (m)	76	74	73	72,5	71,5	70	69	60,5	43,5

* Star starting is possible (Δ)

K 80/300



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 80/300	595	270	122	182	60	20	210	14	340	160	180	2" G	1 1/4" G	680	330	470	0,106	78,5

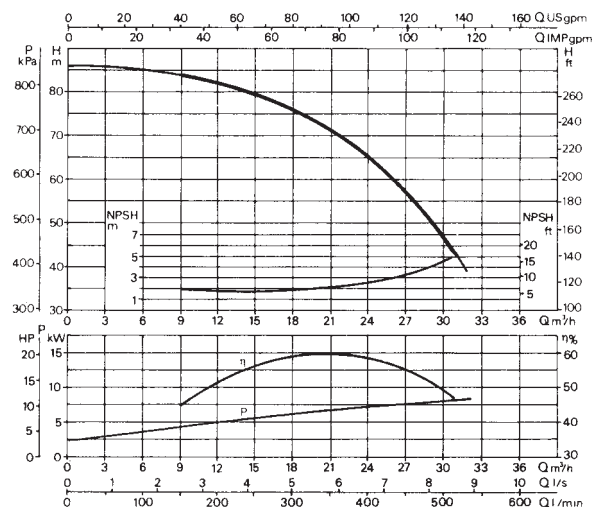
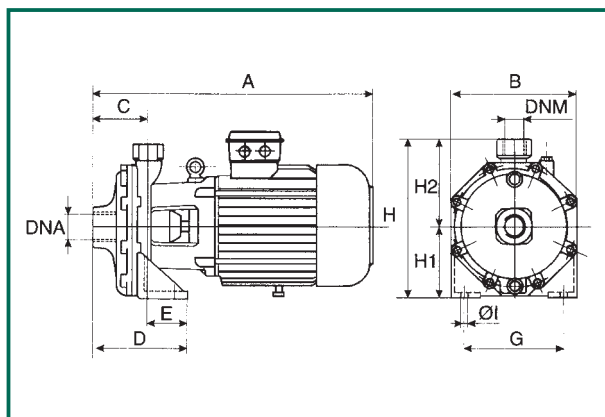
MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n ≈ 2850 1/min)									
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW	HP	In A	I st. A	1/min	η max %	cos φ	Q m³/h	0	6	7,2	8,4	9,6	10,8	12	18	24
K 80/300 T	3x400 V ~ Δ*	9,9	7,5	10	15	118,5	2900	84,2	0,94	H (m)	95	93	92,2	91,5	90,5	90	89,5	82	68

* Star starting is possible (Δ)

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

Liquid temperature range: from -15°C to +110°C
Maximum ambient temperature: +40°C

K 70/400

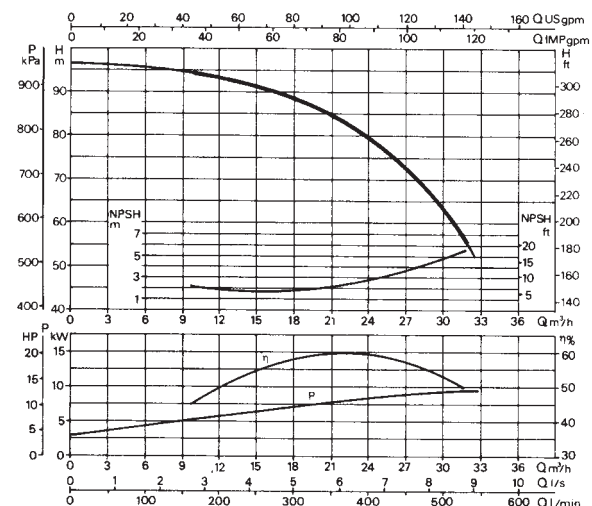
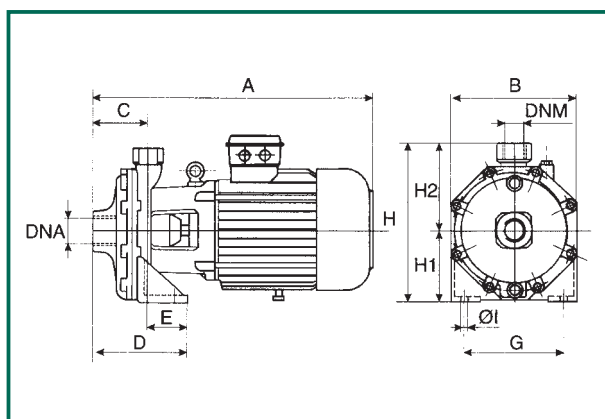


MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 70/400	635	270	122	182	60	20	210	14	340	160	180	2" G	1 1/4" G	680	330	470	0,106	74

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n = 2900 1/min)													
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW HP		In A	I st. A	1/min	η max %	cos φ	Q													
										m³/h	0	9	9,6	10,8	12	15	18	21	24	27	30		
K 70/400 T	3x400 V ~ Δ*	10,7	9,2	12,5	18	146,6	2900	84,6	0,88	l/min	0	150	160	180	200	250	300	350	400	450	500		
										H (m)	86	84	83,2	82,5	82	79	76	72	65	57	47		

* Star starting is possible (Δ)

K 80/400



MODEL	A	B	C	D	E	F	G	I	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME	WEIGHT
														L/A	L/B	H	m ³	Kg
K 80/400	635	270	122	182	60	20	210	14	340	160	180	2" G	1 1/4" G	680	330	470	0,106	78

MODEL	ELECTRICAL DATA									HYDRAULIC DATA (n = 2900 1/min)													
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL kW HP		In A	I st. A	1/min	η max %	cos φ	Q													
										m³/h	0	9,6	10,8	12	15	18	21	24	27	30			
K 80/400 T	3x400 V ~ Δ*	12,5	11	15	21	182,6	2900	86,1	0,88	l/min	0	160	180	200	250	300	350	400	450	500			
										H (m)	97	95	94,5	94	92	89	85	80	73	64			

* Star starting is possible (Δ)