IMPPUMPS®
Intelligent Motor Pumps
www.imp-pumps.com

75 YEARS



IN-LINE PUMPS

TECHNICAL DATA

THE GOLDEN GAZELLE
OF SLOVENIA
2023

IMPPUMPS®
Intelligent Motor Pumps

INDEX

CL PUMPS	PAGE 5
CL 2 POLES - Q/H PERFORMANCE	PAGE 6
CL 2 POLES - PERFORMANCE CURVES	PAGE 9
CL 2 POLES - DIMENSIONS	PAGE 15
CL 4 POLES - Q/H PERFORMANCE	PAGE 18
CL 4 POLES - PERFORMANCE CURVES	PAGE 21
CL 4 POLES - DIMENSIONS	PAGE 30
CLD 2 POLES - Q/H PERFORMANCE	PAGE 34
CLD 2 POLES - PERFORMANCE CURVES	PAGE 36
CLD 2 POLES - DIMENSIONS	PAGE 38
CLD 4 POLES - Q/H PERFORMANCE	PAGE 40
CLD 4 POLES - PERFORMANCE CURVES	PAGE 41
CLD 4 POLES - DIMENSIONS	PAGE 43
ECL(D) - WITH FREQUENCY CONVERTER	PAGE 45
ECL 2 POLES	PAGE 47
ECL 4 POLES	PAGE 50
ECLD 2 POLES	PAGE 54
ECLD 4 POLES	PAGE 55
CV/PV PUMPS	PAGE 56
CV 2 AND 4 POLES - Q/H PERFORMANCE	PAGE 57
CV 2 AND 4 POLES - PERFORMANCE CURVES	PAGE 57
PV 2 AND 4 POLES - Q/H PERFORMANCE	PAGE 58
PV 2 AND 4 POLES - PERFORMANCE CURVES	PAGE 58
CV/PV 2 AND 4 POLES - DIMENSIONS	PAGE 59

GENERAL INFORMATION

ALL PRODUCTS AND COMPONENTS ARE MANUFACTURED FROM ENVIRONMENTALLY FRIENDLY MATERIALS.

UPON DISPOSAL INTERNAL ENVIRONMENTAL REGULATION MUST BE CONSIDERED.

FURTHER INFORMATION ON ALL PUMPING PROGRAMS WITH TECHNICAL DATA ARE AVAILABLE ON WWW.IMP-PUMPS.COM

GENERAL SALES CONDITIONS AND TERMS OF PAYMENT – DEPENDING ON THE AGREEMENT WITH THE FIRM IMP PUMPS.

IMAGES IN CATALOGUE ARE FOR ILLUSTRATIVE PURPOSES ONLY.

TECHNICAL ADJUSTMENTS AND REVISIONS ARE NOT PERMITTED!











ABOUT US

Discover the essence of pumping excellence at IMP PUMPS, a high-tech Slovenian manufacturer. Our core expertise lies in the holistic process of designing, developing, manufacturing, distributing, and maintaining state-of-the-art pumps and pumping systems. Beyond our proprietary offerings, we forge strategic partnerships to provide integrated solutions that redefine industry benchmarks. Our impact extends globally, with over 96% of our meticulously crafted pumps reaching customers in more than 80 countries. Pioneering innovation is in our DNA, particularly evident in our groundbreaking NMT MINI world's most energy-efficient circulating pump. We proudly hold the ISO 9001:2015 quality certificate, a testament to our dedication to delivering products and services of the highest standards. Choose IMP PUMPS as your trusted partner for a future where pumping technology meets precision, every drop matters and every solution reflects our relentless pursuit of quality and innovation.

HISTORY

Established in 1947 under the IMP umbrella, IMP PUMPS charted its independent course post the late 1980s. Surviving economic shifts and the turbulent nineties, the company privatized successfully in 1997 and 1999. A transformative moment came in 2000 with restructuring and renaming as IMP PUMPS d.o.o. Slovenia's EU entry fueled intensive sales network development in the changing European market, directly and through key partners. This period saw significant investments in development, marketing, information technology, and e-commerce philosophy, positioning IMP PUMPS at the forefront of HVAC industry evolution.

PRESENT

IMP PUMPS spans global markets, serving Europe, North and South America, Asia, Africa, and Australia. Our focus on elevating pump efficiency is evident in the groundbreaking NMT pump series, utilizing permanent magnet technology for superior efficiency.

As one of the pioneers in HVAC industry, we're among the select European manufacturers introducing a new era of pumps with electronically controlled wet running motors. This innovation places IMP PUMPS at the forefront of Europe's technological elite. Choose us for a future where efficiency meets global impact.

IMP PUMPS has been awarded the prestigious Golden Gazelle of Slovenia for the year 2023. The award for best and fastest-growing Slovenian company, a testament to our dedication to excellence and innovation.

FUTURE

At IMP PUMPS, we have a global team that understands the impact of our role in development and the environment. We are committed to energy efficiency and our products prioritize the future. We continuously innovate to create cost-effective pumps and intelligent solutions.

Our goal is to expand globally and secure a top position among Europe's circulator pump manufacturers. We work by our motto, "The honest product for the honest price," and ensure excellent quality at customer-friendly prices. We apply the latest technologies and are dedicated to providing faster service to our customers.

Choose IMP PUMPS for a future defined by quality, partnership, fast service and innovation.

Product overview

At IMP PUMPS, we specialize in the production of top-quality pumps that are specifically designed for HVAC applications. We offer a wide range of pump styles to suit your needs, including multiple options of flanged and threaded connections. Pumps can be designed as either single or double motor models. Furthermore, we provide you with the flexibility of choosing the hydraulic casing material including options such as: stainless steel, bronze, or cast iron. All of our cast iron hydraulics come with a highly durable cataphoresis coating that ensures long-lasting performance and reliability.

Wet running circulating pumps



NMT (one of the most energy efficient circulation pump families in the world)



SAN - for sanitary water



GHN (3-speed pumps)

Dry running circulating pump



CL, ECL, CV, PV
(in-line,
with frequency converter)



BL, BWJ
(multistage)



PPT BL (pressure boosting unit)



(E)CL(D) - in-line pumps

(E)CL(D) 50 - 290 / 2 / 3.0 A / L - D - 2xTT

- Type of sensor
- Frequency converter manuf.
- FC (integrated(I)/separated(L))
- Factory mark
- Power [kW]
- Number of poles
- Head [dcm]
- DN
- Type - (Electronic) CL (Duplex)



Construction

Close-coupled, single-impeller, centrifugal pums with standard electric motor and electric motor with extended shaft. Pump casing with suction and delivery connections with the same diameter and on the same axis (in-line).

Motor

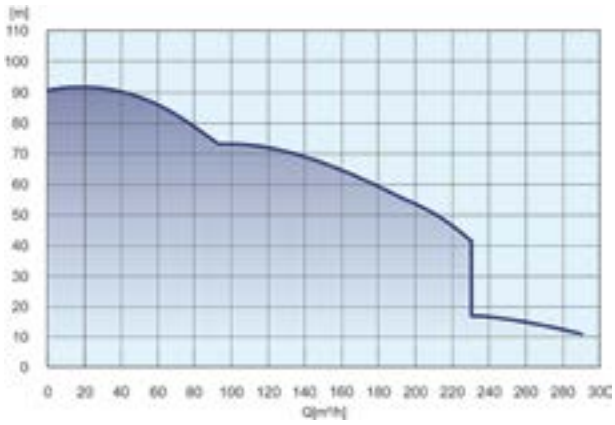
2 poles n ≈ 2900 rpm; 50Hz
4 poles n ≈ 1450 rpm; 50Hz

Three phase (depending on motor power);
230V/400V
400V/690V

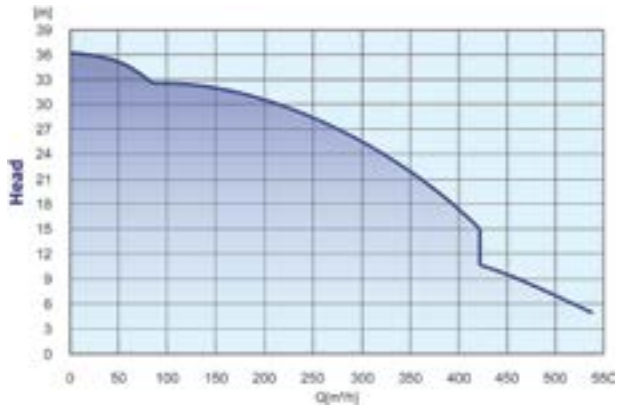
Technical specification of the motor	
Rated power	0,25kW - 45,0kW
Efficiency class	IE 3 ≥ 0,75kW > IE2
Degree of protection	IP 55
Insulation class	F
MEI	MEI ≥ 0,40
ErP	EuP Standalone product
ATEX	in accordance

Peformance range

(E)CL(D) 2 poles ≈ 2900 rpm



(E)CL(D) 4 poles ≈ 1450 rpm



Technical data

TECHNICAL FEATURES	CL/ECL	CLD/ECLD
CONNECTIONS (DN)	40 TO 200	40 TO 100
CONNECTION TYPE	FLANGE	FLANGE
MAX OPERATING PRESSURE (PN)	10/16	10/16
AMBIENT TEMPERATURE	-10°C TO +40°C	-10°C TO +40°C
MEDIA TEMPERATURE	-20°C TO +140°C	-20°C TO +140°C
TWIN PUMP	NO	YES
APPLICATIONS	**CL/ECL**	**CLD/ECLD**
HEATING	YES	YES
COOLING	YES	YES
SANITARY WATER	YES (in accordance with local laws and regulations)	YES (in accordance with local laws and regulations)
CLIMATE APPLIANCES	YES	YES
INDUSTRY	YES	YES
PROCESS TECHNIQUE	YES	YES
CONDENSATION	YES	YES
SALT WATER	NO	NO
MATERIALS	**CL/ECL**	**CLD/ECLD**
HYDRAULIC CASING	CAST IRON	CAST IRON
IMPELLER	CAST IRON	CAST IRON
SHAFT	STAINLESS STEEL	STAINLESS STEEL
MECHANICAL SEAL STANDARD	AQ1EGG	AQ1EGG

CL 2 poles - Q/H performance

CL 2 poles DN 40F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					6	7,5	9	10,5	12	13,5	15	18	21	24	27	30	36	42
979527377	CL 40-175/2/1.5S	1,5	3,2	H [m]	16,5	16,4	16,3	16,1	15,8	15,5	15,2	14,2	12,8	10,9	8,4	5,1		
979522075	CL 40-240/2/2.2K	2,2	4,5		23,3	23,1	22,9	22,6	22,3	21,9	21,4							
979522076	CL 40-300/2/3.0K	3,0	5,9		29,4	29,3	29,1	28,8	28,6	28,3	27,9	27,0	25,8	24,3	22,4	20,1		
979522077	CL 40-360/2/4.0K	4,0	7,6		34,7	34,6	34,4	34,2	33,9	33,6	33,2	32,4	31,3	30,0	28,3	26,4	21,5	
979526521	CL 40-430/2/4.0K	4,0	7,6		42,9	42,6	42,3	42,0	41,5	41,0	40,4							
979522078	CL 40-430/2/5.5K	5,5	10,6		44,2	44,0	43,7	43,3	43,0	42,5	42,0	40,9	39,6	38,1	36,4	34,5	29,9	24,5
979526520	CL 40-530/2/5.5K	5,5	10,6		52,4	52,1	51,8	51,5	51,1	50,6	50,1	48,8						
979522079	CL 40-530/2/7.5K	7,5	14,1		52,9	52,6	52,3	51,9	51,5	51,1	50,6	49,4	48,0	46,5	44,8	43,0	38,8	34,2
979526519	CL 40-630/2/7.5K	7,5	14,1		62,7	62,5	62,3	62,1	61,8	61,5	61,1	60,0						
979522080	CL 40-630/2/11.0K	11,0	20,8		64,0	63,9	63,7	63,5	63,3	63,0	62,6	61,7	60,7	59,5	58,0	56,4	52,5	47,8
979527378	CL 40-835/2/11.0S	11,0	19,8		65,3	65,3	65,4	65,5	65,6	65,7	65,8	65,8	65,4	64,5	62,9	60,4	52,3	39,0

CL 2 poles DN50F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					12	13,5	15	18	21	24	27	30	36	42	48	54	60	75
979522031	CL 50-160/2/1.1K	1,1	2,3	H [m]	13,6	13,3	12,9	11,9	10,7	9,0								
979522030	CL 50-190/2/1.5K	1,5	3,1		17,3	17,0	16,7	15,9	14,9	13,6								
979522032	CL 50-240/2/2.2K	2,2	4,4		21,3	21,1	20,8	20,2	19,3	18,2	16,8							
979522033	CL 50-290/2/3.0K	3,0	5,8		26,8	26,6	26,5	26,0	25,4	24,6	23,6	22,3						
979522034	CL 50-360/2/4.0K	4,0	7,5		34,2	34,0	33,8	33,2	32,6	31,8	30,9	29,8						
979526524	CL 50-420/2/5.5K	5,5	10,6		45,1	45,0	44,9	44,6	44,1									
979522036	CL 50-420/2/7.5K	7,5	14,1		45,3	45,3	45,2	45,0	44,6	44,1	43,5	42,8	40,9	38,5	35,5	31,9		
979522035	CL 50-430/2/5.5K	5,5	10,6		41,4	41,3	41,1	40,6	40,1	39,5	38,7	37,8	35,5	32,5				
979526523	CL 50-540/2/7.5K	7,5	14,1		54,4	54,3	54,3	54,0	53,7	53,2	52,7							
979522037	CL 50-540/2/11.0K	11,0	20,1		55,5	55,4	55,4	55,1	54,8	54,4	53,8	53,2	51,5	49,3	46,5	43,1	39,0	
979526522	CL 50-630/2/11.0K	11,0	20,0		64,4	64,4	64,4	64,3	64,0	63,6	63,0	62,3	60,4					
979522038	CL 50-630/2/15.0K	15,0	27,1		65,0	65,0	65,0	64,9	64,7	64,3	63,8	63,1	61,5	59,3	56,6	53,4	49,7	
979527379	CL 50-690/2/11.0S	11,0	19,8		68,2	68,3	68,3	68,4	68,3	68,1	67,3	65,7						
979527380	CL 50-690/2/15.0S	15,0	26,7		68,2	68,2	68,3	68,3	68,1	67,9	67,5	67,0	65,6	63,4	60,4	56,6	51,7	
979526527	CL 50-710/2/11.0K	11,0	20,0		70,2	70,1	70,1	69,8										
979522039	CL 50-710/2/15.0K	15,0	27,7		71,0	70,9	70,8	70,5	70,1	69,5	68,8	68,0	66,1	63,7	60,9			
979526526	CL 50-830/2/15.0K	15,0	27,7		79,2	79,1	79,0	78,8	78,5	78,0	77,4	76,6						
979522040	CL 50-830/2/18.5K	18,5	33,9		79,9	79,8	79,6	79,4	79,0	78,5	77,9	77,3	75,7	73,7	71,2	68,2	64,7	
979526525	CL 50-900/2/18.5K	18,5	33,9		89,4	89,4	89,3	89,1	88,8	88,4	87,8	87,2	85,6					
979522041	CL 50-900/2/22.0K	22,0	39,7		90,0	90,0	89,9	89,8	89,5	89,1	88,6	88,0	86,5	84,5	82,0	79,2	75,8	

CL 2 poles DN65F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					10	15	20	25	30	35	40	47	54	60	65	75	90	95
979522081	CL 65-170/2/2.2K	2,2	4,4	H [m]	17,0	16,7	16,3	15,8	15,2	14,3	13,3	11,5						
979522082	CL 65-210/2/3.0K	3,0	5,8		20,4	20,2	20,0	19,6	19,0	18,3	17,5	15,9	13,8					
979522083	CL 65-250/2/4.0K	4,0	7,6		25,0	24,9	24,6	24,2	23,6	22,9	22,1	20,6	18,7	16,8	15,0			
979522084	CL 65-340/2/5.5K	5,5	10,6		33,3	33,3	33,1	32,8	32,4	31,7	30,7	28,8	26,3					
979522085	CL 65-410/2/7.5K	7,5	14,1		40,4	40,4	40,3	40,0	39,5	38,9	38,0	36,4	34,3	32,1				
979522086	CL 65-460/2/11.0K	11,0	20,0		45,1	45,2	45,2	45,0	44,6	44,0	43,2	41,5	39,3	36,9	34,5	28,5		
979522087	CL 65-550/2/15.0K	15,0	27,7		54,6	54,5	54,4	54,1	53,7	53,0	52,2	50,7	48,7	46,5	44,4	39,1		
979522088	CL 65-660/2/18.5K	18,5	33,9		64,9	65,1	65,1	65,0	64,7	64,3	63,7	62,6	61,2	59,6	58,1	54,4		
979526529	CL 65-720/2/18.5K	18,5	27,7		70,7	70,7	70,6	70,5	70,1	69,5								
979522089	CL 65-720/2/22.0K	22,0	39,7		71,1	71,2	71,2	71,0	70,6	70,1	69,5	68,3	66,9	65,3	63,9	60,4	53,9	
979526528	CL 65-930/2/22.0K	22,0	39,7		89,8	89,8	89,8	89,6	89,2	88,7	88,0	86,7						
979522090	CL 65-930/2/30.0K	30,0	54,5		90,9	91,1	91,1	91,0	90,7	90,2	89,6	88,5	87,0	85,5	84,0	80,6	74,3	71,9

CL 2 poles DN80F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					30	36	42	48	54	60	75	90	105	120	135	150	165	180
979522060	CL 80-180/2/3.0K	3,0	5,8	H [m]	16,4	15,9	15,2	14,4	13,4	12,2								
979522061	CL 80-210/2/4.0K	4,0	7,5		19,6	19,1	18,5	17,8	17,0	16,0								
979522062	CL 80-240/2/5.5K	5,5	10,6		24,2	23,9	23,4	22,9	22,2	21,3	18,6							
979522063	CL 80-250/2/7.5K	7,5	14,1		26,1	25,9	25,7	25,3	24,9	24,4	22,9	20,8						
979522064	CL 80-330/2/11.0K	11,0	20,1		31,6	31,6	31,4	31,3	31,0	30,7	29,7	28,2	26,0	23,1				
979522065	CL 80-400/2/15.0K	15,0	27,1		39,7	39,6	39,5	39,4	39,3	39,1	38,3	37,2	35,6	33,4	30,4			
979522066	CL 80-520/2/18.5K	18,5	33		49,2	49,2	49,1	49,0	48,7	48,4	47,3	45,6	43,3	40,4				
979522067	CL 80-570/2/22.0K	22,0	39,4		54,1	54,1	54,1	54,0	53,9	53,6	52,8	51,3	49,2					
979526530	CL 80-700/2/22.0K	22,0	39,7		64,0	63,9	63,8	63,6	63,5	63,3	62,7							
979522068	CL 80-700/2/30.0K	30,0	54,5		64,7	64,7	64,7	64,7	64,6	64,5	64,0	63,1	61,7	59,7	57,0	53,5		

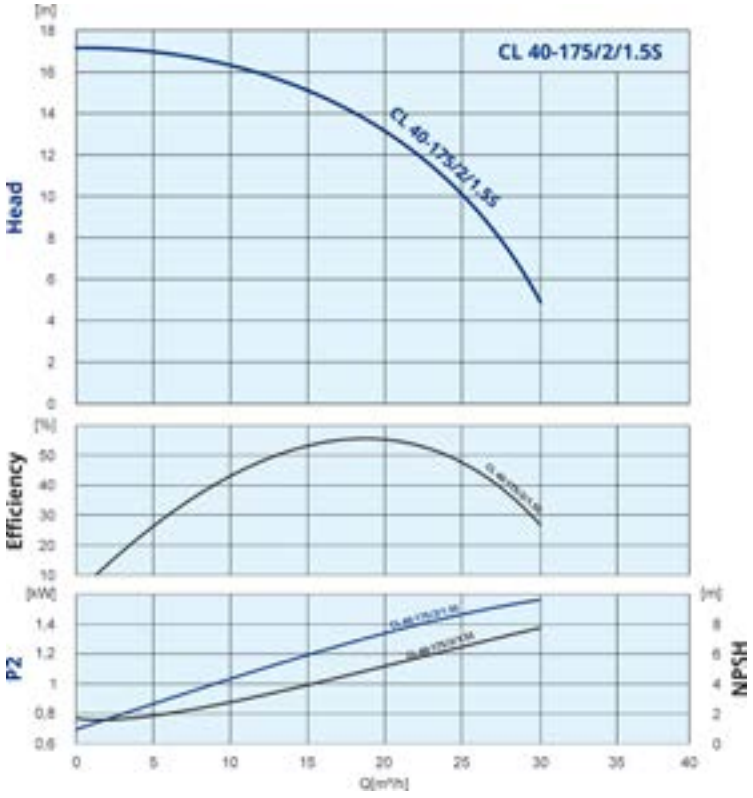
CL 2 poles DN100F

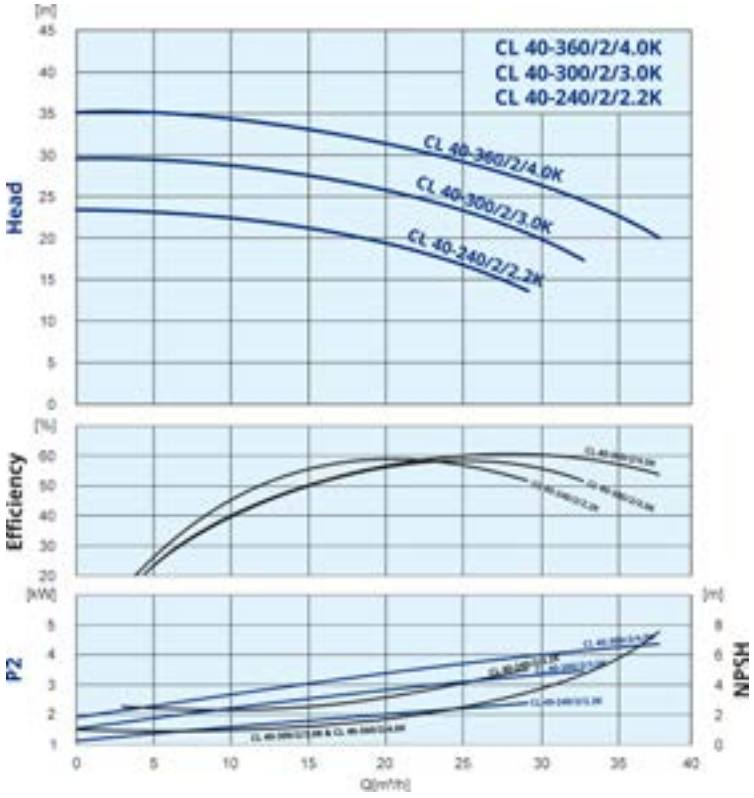
Code	Type	P [kW]	I [A]		Q [m³/h]													
					48	54	60	75	90	105	120	135	150	165	180	195	210	225
979527381	CL 100-270/2/11.0S	11,0	19,8	H [m]	26,2	25,9	25,5	24,4	23,0	21,4	19,6	17,7	15,6	13,3	11,0	8,5		
979527382	CL 100-340/2/15.0S	15,0	26,7		32,6	32,4	32,1	31,1	30,1	28,8	27,3	25,7	23,9	22,0	19,8	17,5	15,1	
979527324	CL 100-380/2/18.5S	18,5	33,4		37,4	37,2	36,9	36,1	35,2	34,2	33,0	31,6	30,0	28,3	26,4	24,2	21,9	19,4
979527383	CL 100-430/2/18.5S	18,5	33,4		42,3	42,1	41,9	41,3	40,5	39,4	38,2							
979527384	CL 100-430/2/22.0S	22,0	38,7		42,1	42,0	41,8	41,3	40,5	39,5	38,2	36,7	34,8	32,6	30,0	27,0		
979527385	CL 100-460/2/22.0S	22,0	40,1		46,3	46,2	46,1	45,6	44,9	44,0	42,9	41,6	40,1					
979527386	CL 100-520/2/30.0S	30,0	52,9		51,9	51,8	51,8	51,5	51,0	50,2	49,2	48,0	46,4	44,5	42,2	39,5	36,4	
979527387	CL 100-590/2/37.0S	37,0	65,2		59,1	59,1	59,1	58,9	58,6	58,2	57,4	56,4	55,1	53,4	51,4	48,9	46,0	42,5
979527388	CL 100-740/2/45.0S	45,0	80,3		74,7	74,8	74,8	74,6	74,2	73,3	72,0	70,1	67,6	64,3	60,2			

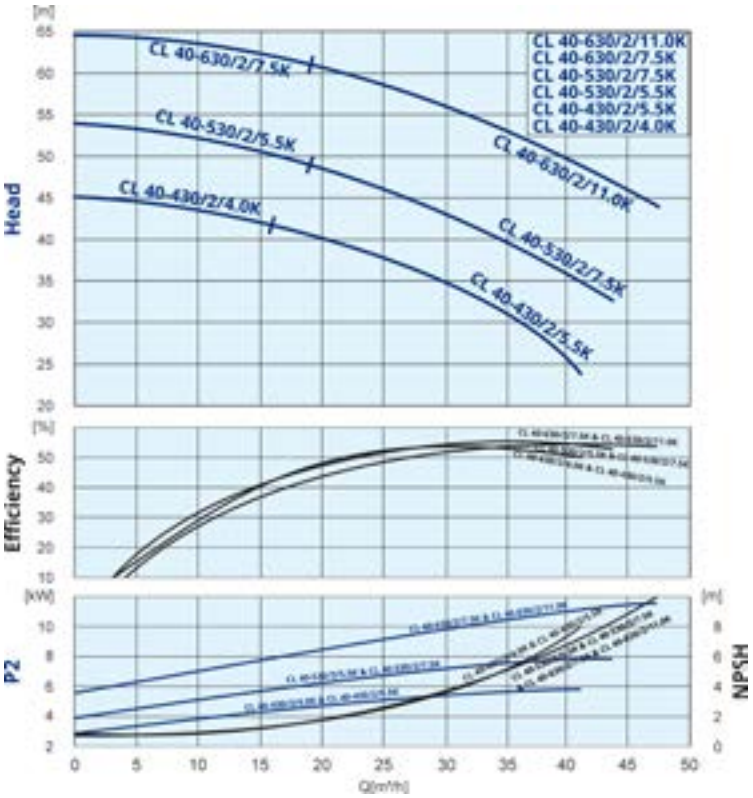
CL 2 poles DN125F

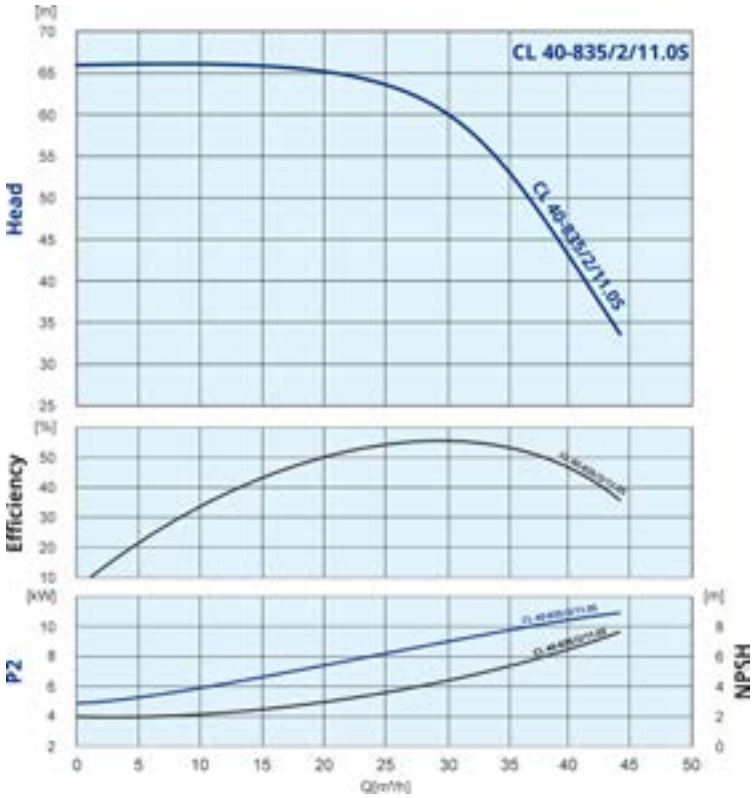
Code	Type	P [kW]	I [A]		Q [m³/h]													
					0	25	50	75	100	125	150	175	200	225	250	275	300	325
979529926	CL 125-210/2/15.0S	15,0	26,7	H [m]	21,1	20,0	19,0	18,0	17,1	16,1	15,0	13,8	12,4	10,7	8,7			
979529927	CL 125-300/2/18.5S	18,5	33,4		30,1	28,8	27,5	26,3	25,1	23,8	22,5	21,0	19,3	17,3	15,1	12,6		

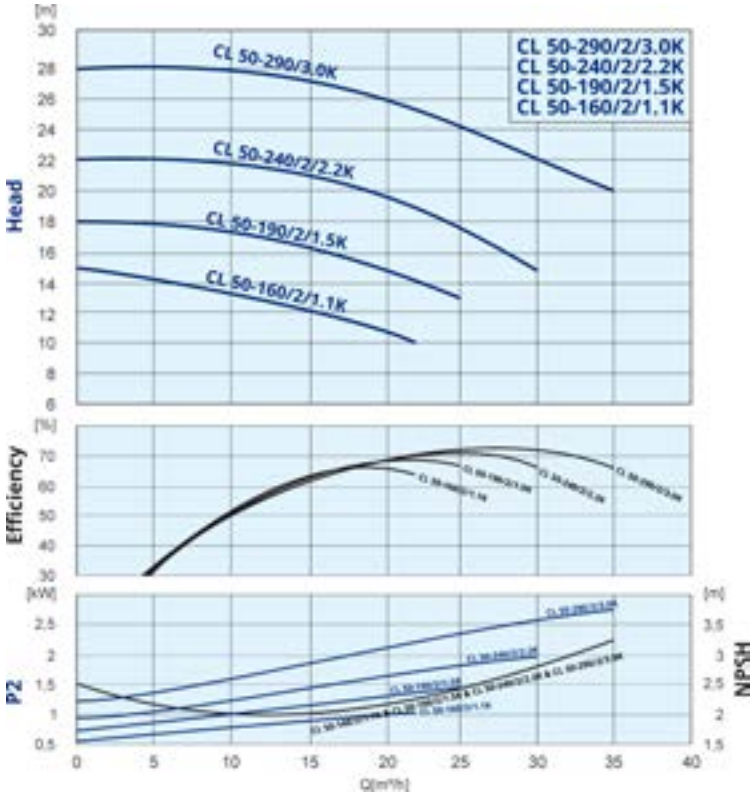
CL 2 poles - Performance curves

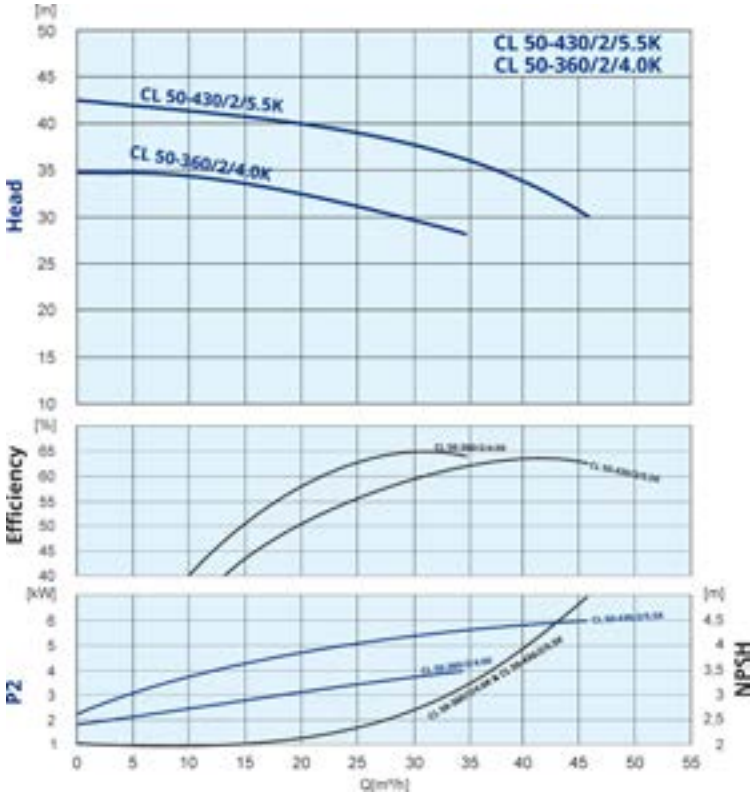


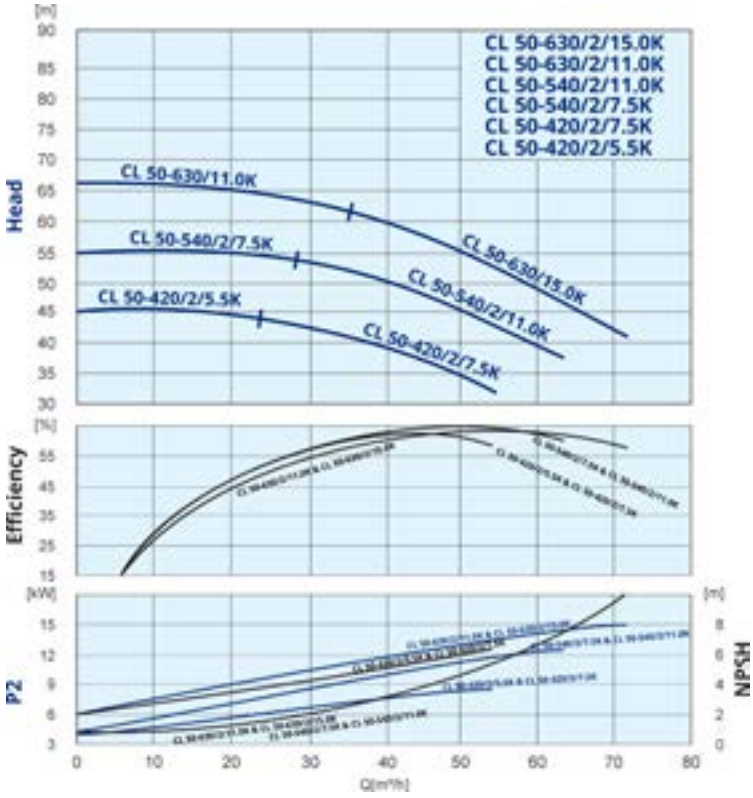


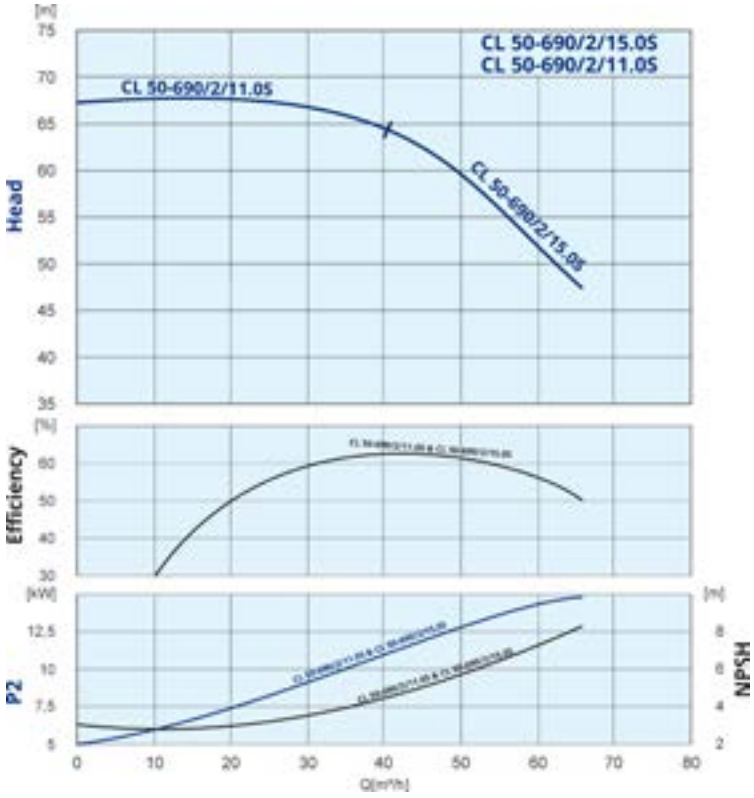


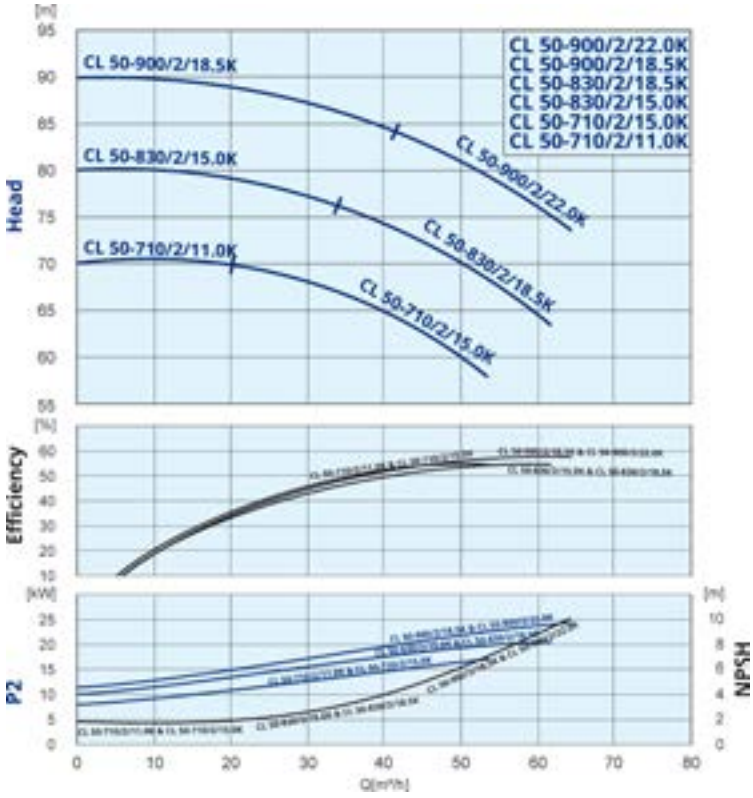


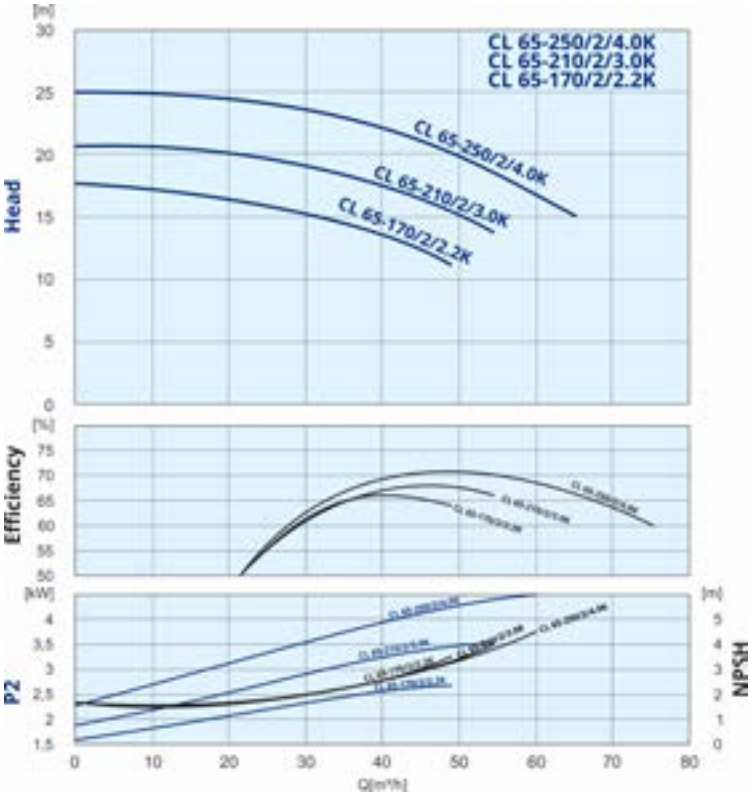

CL 50-290/2/3.0K
CL 50-240/2/2.2K
CL 50-190/2/1.5K
CL 50-160/2/1.1K
Head
Efficiency
P2
NPSH
Q[m³/h]

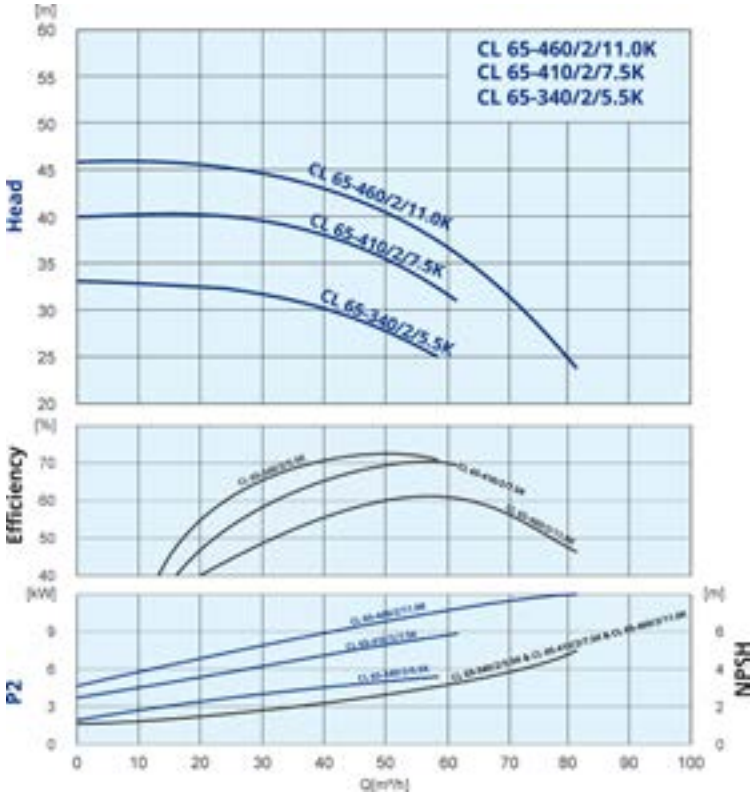

CL 50-430/2/5.5K
CL 50-360/2/4.0K
Head
Efficiency
P2
NPSH
Q[m³/h]

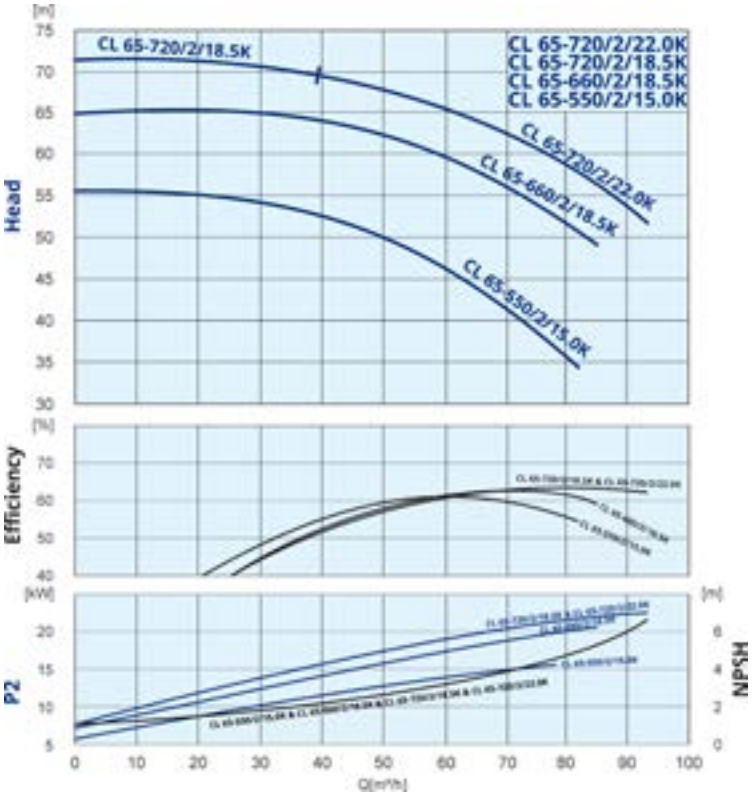

CL 50-630/2/15.0K
CL 50-630/2/11.0K
CL 50-540/2/11.0K
CL 50-540/2/7.5K
CL 50-420/2/7.5K
CL 50-420/2/5.5K
Head
Efficiency
P2
NPSH
Q[m³/h]

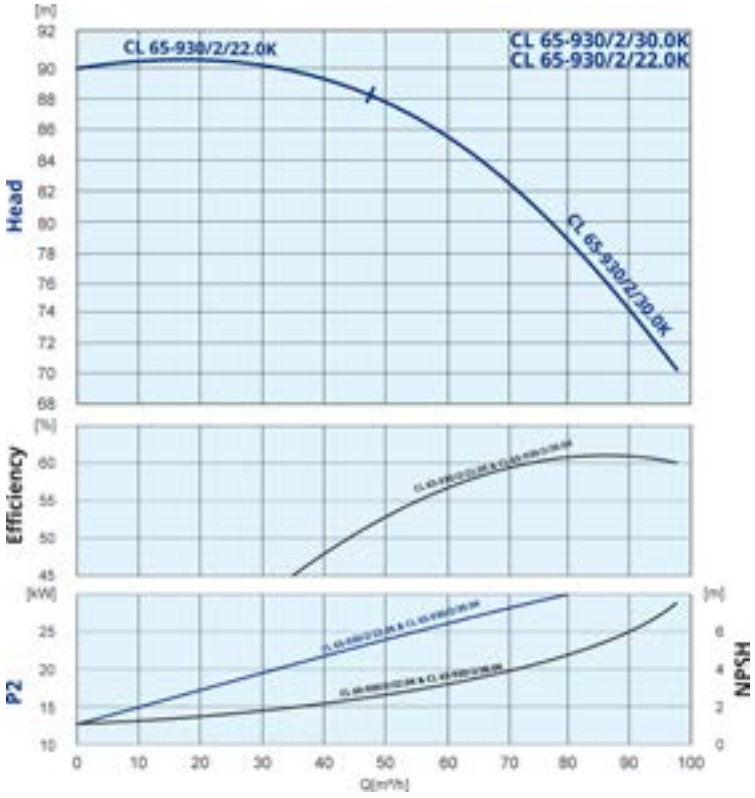

CL 50-690/2/15.0S
CL 50-690/2/11.0S
Head
Efficiency
P2
NPSH
Q[m³/h]

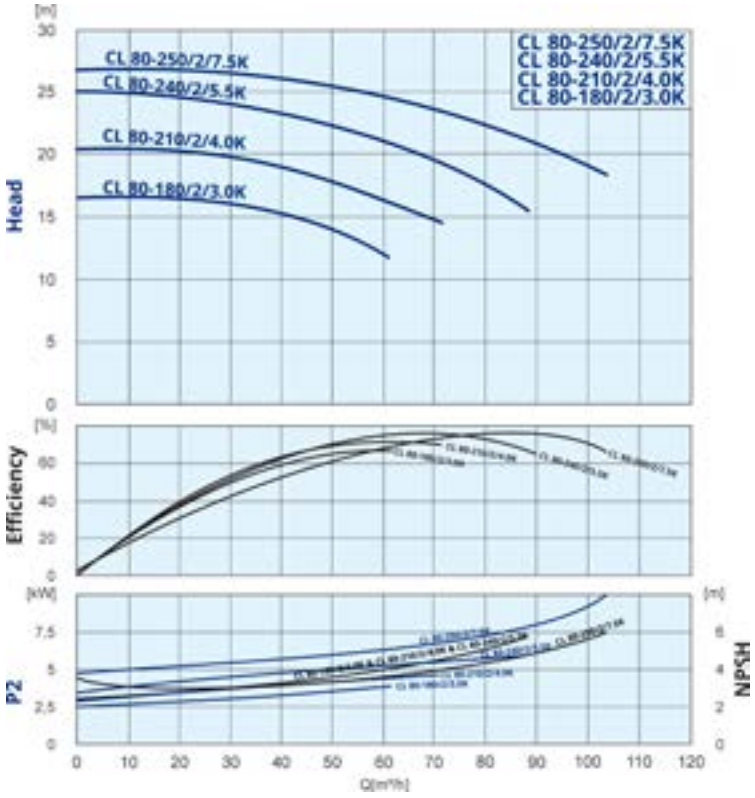

CL 50-900/2/22.0K
CL 50-900/2/18.5K
CL 50-830/2/15.0K
CL 50-710/2/15.0K
CL 50-710/2/11.0K
CL 50-900/2/18.5K
CL 50-830/2/15.0K
CL 50-710/2/11.0K
Head
Efficiency
P2
NPSH
Q[m³/h]

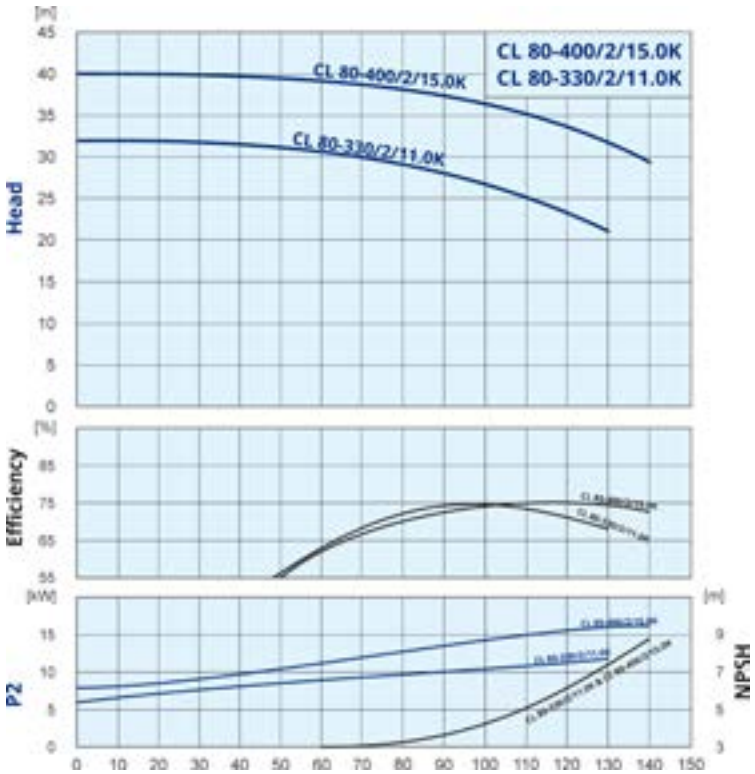

CL 65-250/2/4.0K
CL 65-210/2/3.0K
CL 65-170/2/2.2K
Head
Efficiency
P2
NPSH
Q[m³/h]

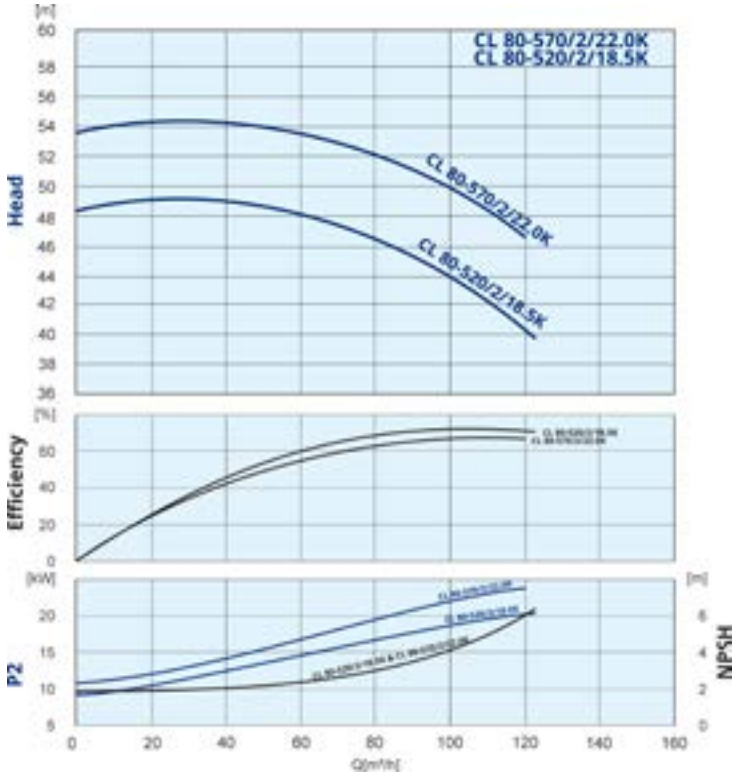

CL 65-460/2/11.0K
CL 65-410/2/7.5K
CL 65-340/2/5.5K
Head
Efficiency
P2
NPSH
Q[m³/h]

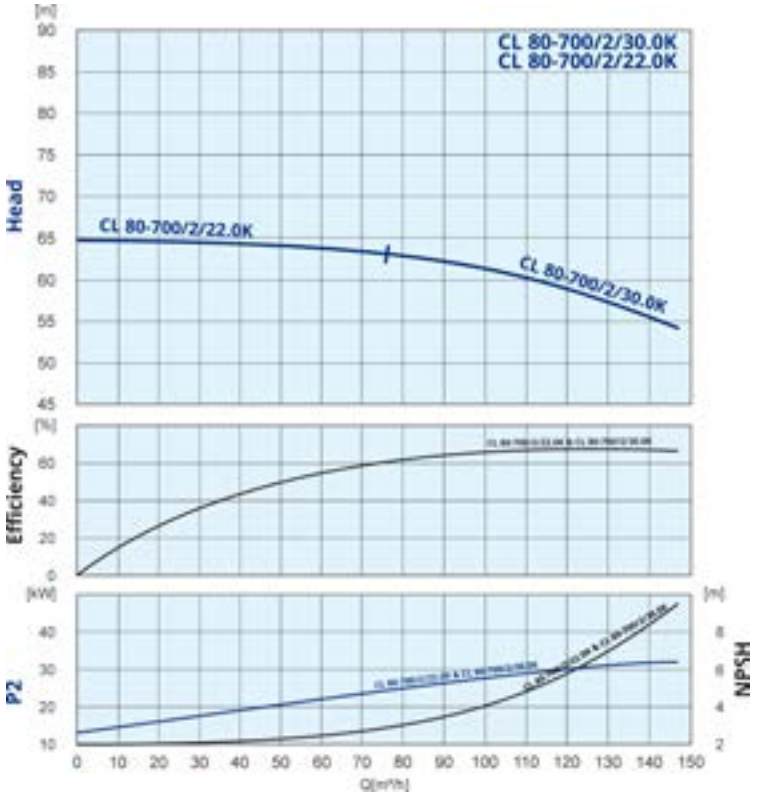

CL 65-720/2/22.0K
CL 65-720/2/18.5K
CL 65-660/2/18.5K
CL 65-550/2/15.0K
Head
Efficiency
P2
NPSH
Q[m³/h]

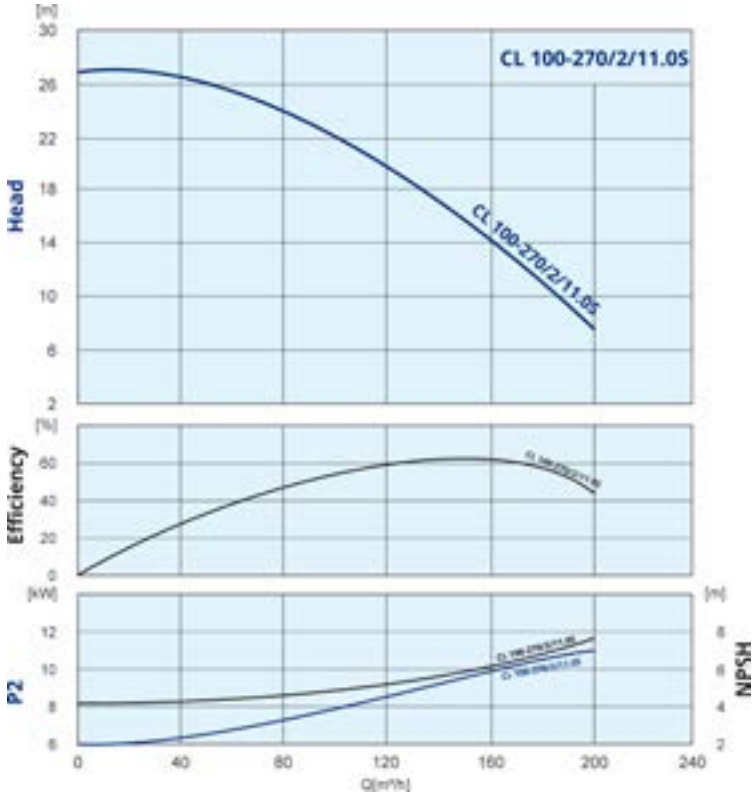

CL 65-930/2/22.0K
CL 65-930/2/30.0K
CL 65-930/2/30.0K
CL 65-930/2/22.0K
Head
Efficiency
P2
NPSH
Q[m³/h]

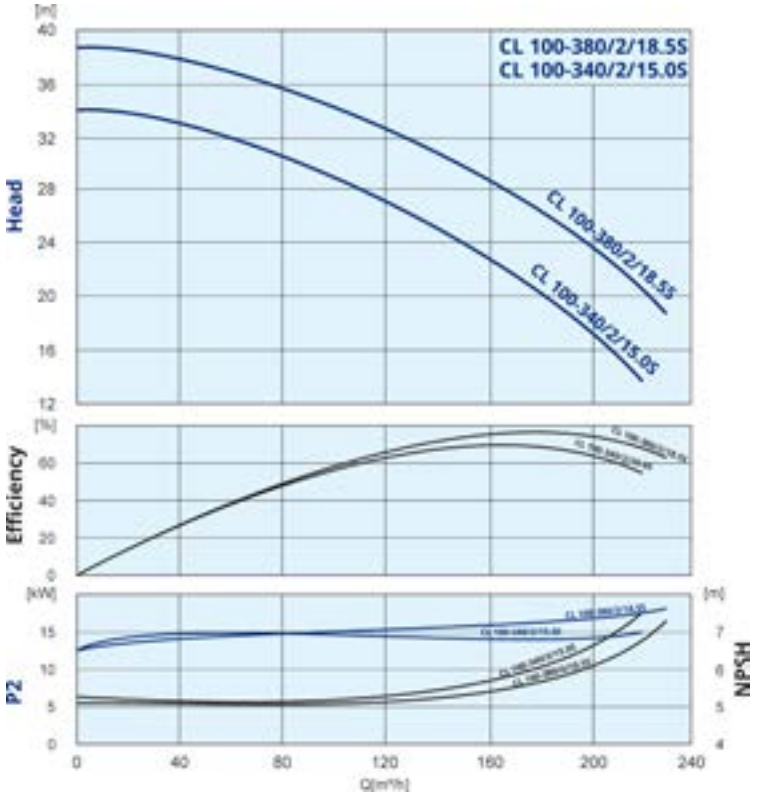

CL 80-250/2/7.5K
CL 80-240/2/5.5K
CL 80-210/2/4.0K
CL 80-180/2/3.0K
CL 80-250/2/7.5K
CL 80-240/2/5.5K
CL 80-210/2/4.0K
CL 80-180/2/3.0K
Head
Efficiency
P2
NPSH
Q[m³/h]

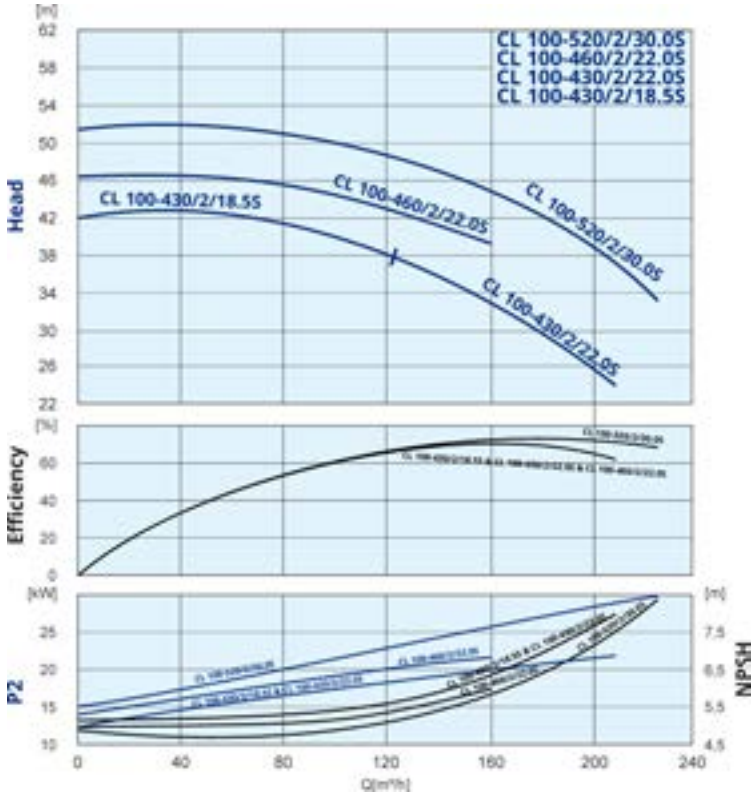

CL 80-400/2/15.0K
CL 80-330/2/11.0K
CL 80-400/2/15.0K
CL 80-330/2/11.0K
Head
Efficiency
P2
NPSH

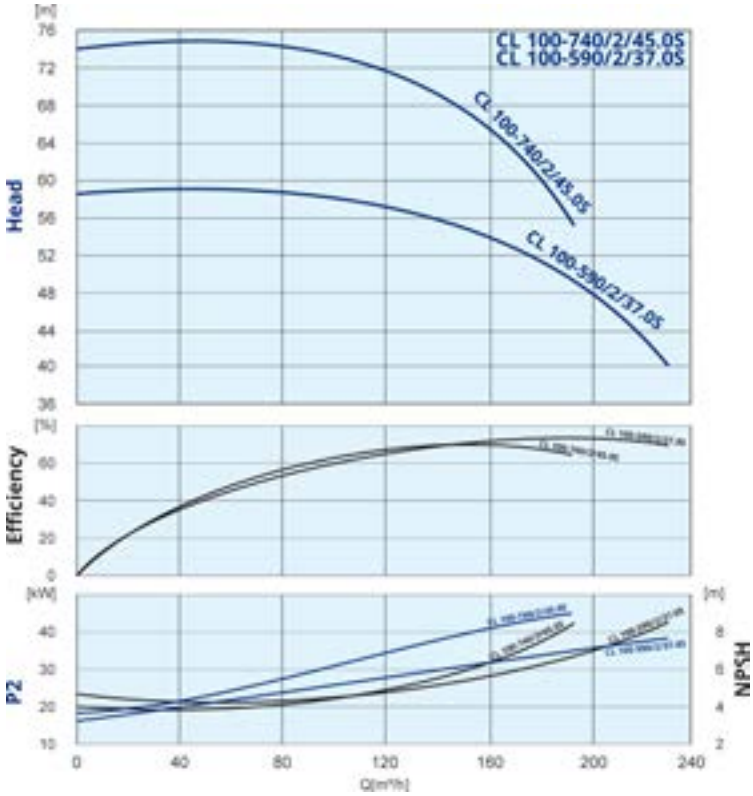

CL 80-570/2/22.0K
CL 80-520/2/18.5K
CL 80-570/2/22.0K
CL 80-520/2/18.5K
Head
Efficiency
P2
NPSH
Q[m³/h]

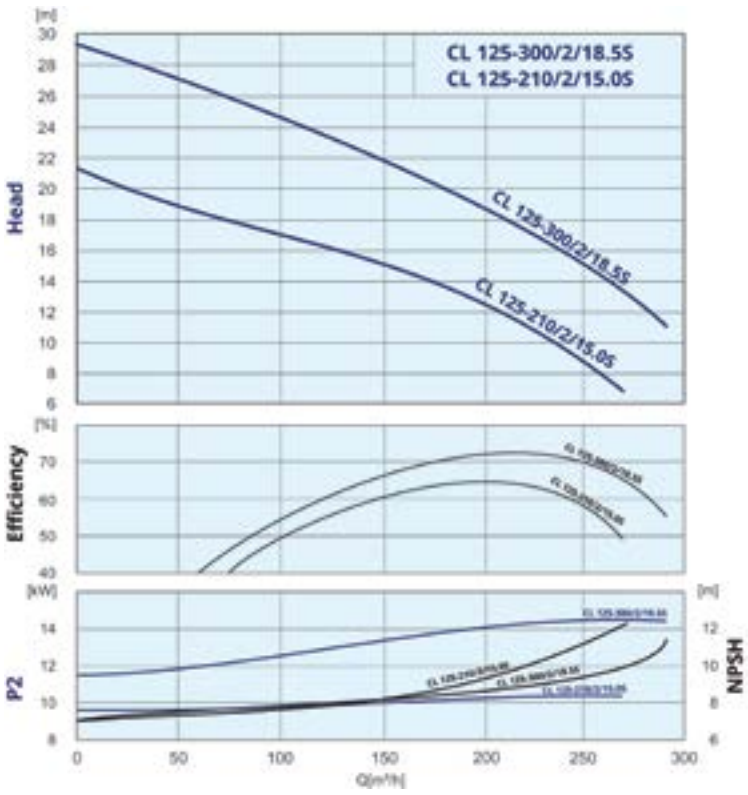

CL 80-700/2/30.0K
CL 80-700/2/22.0K
Head
[m]
CL 80-700/2/22.0K
CL 80-700/2/30.0K
Efficiency
[%]
P2
[kW]
NPSH
[m]
Q[m³/h]


CL 100-270/2/11.0S
Head
[m]
CL 100-270/2/11.0S
Efficiency
[%]
P2
[kW]
NPSH
[m]
Q[m³/h]

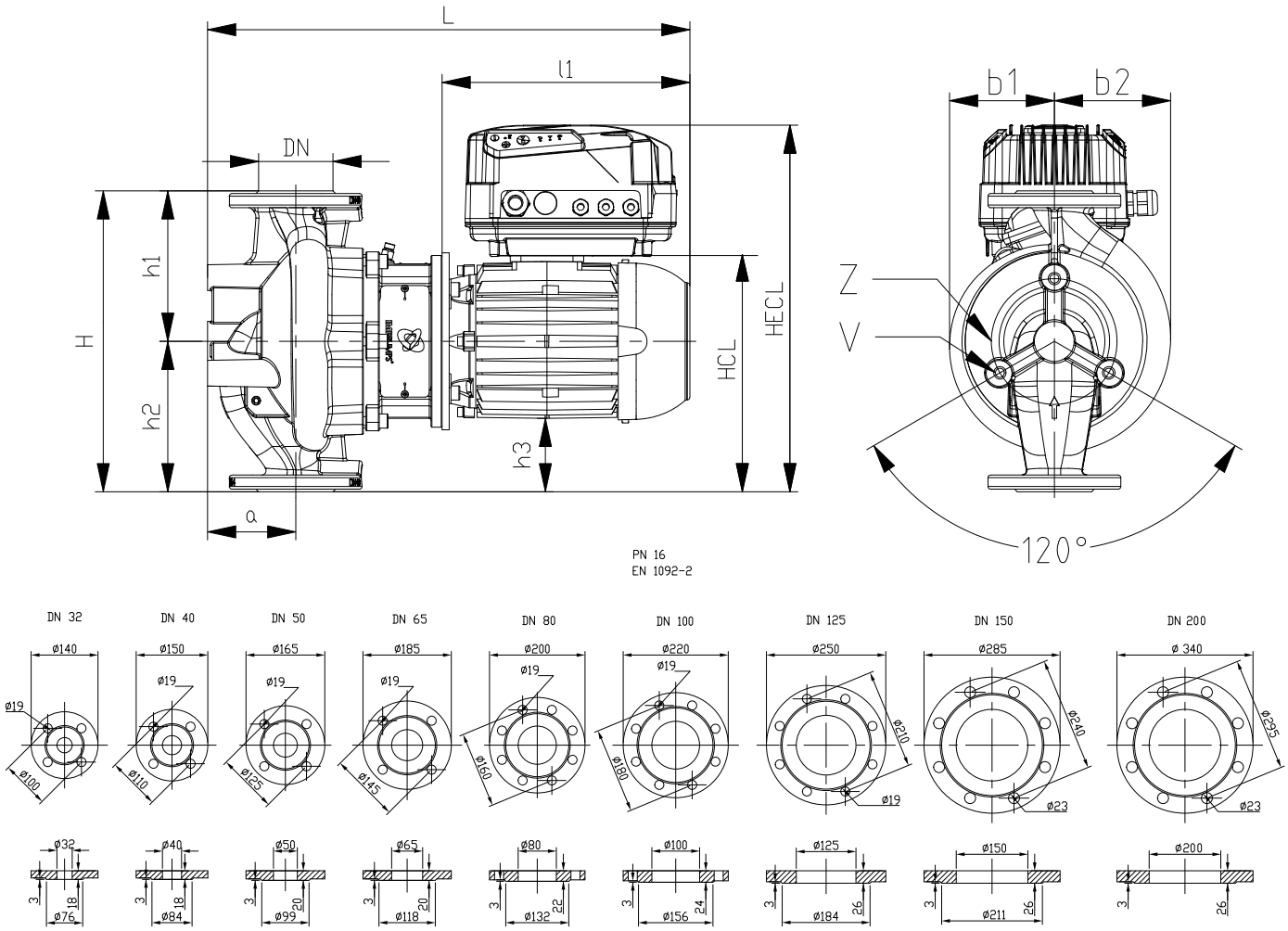

CL 100-380/2/18.5S
CL 100-340/2/15.0S
Head
[m]
CL 100-380/2/18.5S
CL 100-340/2/15.0S
Efficiency
[%]
P2
[kW]
NPSH
[m]
Q[m³/h]


CL 100-520/2/30.0S
CL 100-460/2/22.0S
CL 100-430/2/22.0S
CL 100-430/2/18.5S
Head
[m]
CL 100-430/2/18.5S
CL 100-460/2/22.0S
CL 100-520/2/30.0S
CL 100-430/2/22.0S
Efficiency
[%]
P2
[kW]
NPSH
[m]
Q[m³/h]


CL 100-740/2/45.0S
CL 100-590/2/37.0S
Head
Efficiency
P2
NPSH
Q[m³/h]


CL 125-300/2/18.5S
CL 125-210/2/15.0S
Head
Efficiency
P2
NPSH
Q[m³/h]

CL 2 poles - Dimensions



CL 2 poles DN40F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979527377	CL 40-175/2/1.5S	300	160	140	/	/	/	40	109	532	267	/	/	/	/	10	60,0
979522075	CL 40-240/2/2.2K	340	170	170	83	328	437	40	100	545	280	131	121	142	M12x35	16	56,5
979522076	CL 40-300/2/3.0K	340	170	170	74	338	447	40	100	609	316	141	141	142	M12x35	16	72,0
979522077	CL 40-360/2/4.0K	340	170	170	62	362	478	40	100	627	334	168	168	142	M12x35	16	81,0
979526521	CL 40-430/2/4.0K	440	220	220	112	440	556	40	106	625	334	164	164	142	M12x35	16	112,0
979522078	CL 40-430/2/5.5K	440	220	220	88	440	566	40	106	700	372	164	164	142	M12x35	16	124,0
979526520	CL 40-530/2/5.5K	440	220	220	88	440	566	40	106	625	372	164	164	142	M12x35	16	125,0
979522079	CL 40-530/2/7.5K	440	220	220	88	440	566	40	106	700	372	164	164	142	M12x35	16	137,0
979526519	CL 40-630/2/7.5K	440	220	220	88	440	566	40	106	625	372	164	164	142	M12x35	16	138,0
979522080	CL 40-630/2/11.0K	440	220	220	60	482	X	40	106	849	490	177	177	142	M12x35	16	190,0
979527378	CL 40-835/2/11.0S	380	200	180	/	/	/	40	107	799	466	/	/	/	/	10	130,0

CL 2 poles DN50F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979522031	CL 50-160/2/1.1K	340	170	170	93	307	418	50	114	502	237	120	116	130	M12x35	16	50,0
979522030	CL 50-190/2/1.5K	340	170	170	82	326	429	50	114	520	255	120	116	130	M12x35	16	56,0
979522032	CL 50-240/2/2.2K	340	170	170	82	326	429	50	114	545	280	120	116	130	M12x35	16	59,0
979522033	CL 50-290/2/3.0K	340	170	170	73	336	439	50	114	609	316	141	141	130	M12x35	16	73,0
979522034	CL 50-360/2/4.0K	340	170	170	62	361	471	50	100	624	334	168	168	130	M12x35	16	81,0
979526524	CL 50-420/2/5.5K	440	220	220	88	440	609	50	118	715	372	163	163	142	M12x35	16	129,0
979522036	CL 50-420/2/7.5K	440	220	220	88	440	609	50	118	715	372	163	163	142	M12x35	16	139,0
979522035	CL 50-430/2/5.5K	340	170	170	38	390	559	50	100	701	372	150	150	130	M12x35	16	111,0
979526523	CL 50-540/2/7.5K	440	220	220	88	440	609	50	118	715	372	163	163	142	M12x35	16	140,0
979522037	CL 50-540/2/11.0K	440	220	220	60	486	X	50	118	864	490	177	177	142	M12x35	16	189,0
979526522	CL 50-630/2/11.0K	440	220	220	60	440	X	50	118	864	490	177	177	142	M12x35	16	190,0
979522038	CL 50-630/2/15.0K	440	220	220	60	486	X	50	118	874	490	177	177	142	M12x35	16	201,0
979527379	CL 50-690/2/11.0S	425	225	200	/	/	/	50	122	814	466	/	/	/	/	10	130,0
979527380	CL 50-690/2/15.0S	425	225	200	/	/	/	50	122	814	466	/	/	/	/	10	140,0
979526527	CL 50-710/2/11.0K	440	220	220	60	482	X	50	115	870	489	177	177	142	M12x35	16	192,0
979522039	CL 50-710/2/15.0K	440	220	220	60	482	X	50	115	870	489	177	177	142	M12x35	16	203,0
979526526	CL 50-830/2/15.0K	440	220	220	60	482	X	50	115	870	489	177	177	142	M12x35	16	204,0
979522040	CL 50-830/2/18.5K	440	220	220	60	482	X	50	115	913	533	177	177	142	M12x35	16	225,0
979526525	CL 50-900/2/18.5K	440	220	220	60	482	X	50	115	913	533	177	177	142	M12x35	16	226,0
979522041	CL 50-900/2/22.0K	440	220	220	40	497	X	50	115	934	554	177	177	142	M12x35	16	254,0

CL 2 poles DN65F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979522081	CL 65-170/2/2.2K	360	180	180	93	360	463	65	114	557	280	130	118	142	M12x25	16	65,0
979522082	CL 65-210/2/3.0K	360	180	180	84	360	463	65	114	621	316	141	141	142	M12x25	16	82,0
979522083	CL 65-250/2/4.0K	360	180	180	72	372	482	65	114	639	334	168	168	142	M12x25	16	88,0
979522084	CL 65-340/2/5.5K	360	180	180	48	400	569	65	107	718	371	150	150	142	M12x35	16	113,0
979522085	CL 65-410/2/7.5K	360	180	180	48	400	569	65	107	718	371	150	150	142	M12x35	16	127,0
979522086	CL 65-460/2/11.0K	475	238	238	78	504	X	65	122	877	490	177	177	142	M12x35	16	193,0
979522087	CL 65-550/2/15.0K	475	238	238	78	504	X	65	122	877	490	177	177	142	M12x35	16	205,0
979522088	CL 65-660/2/18.5K	475	238	238	77	504	X	65	122	919	532	177	177	142	M12x35	16	228,0
979526529	CL 65-720/2/18.5K	475	238	238	77	504	X	65	122	919	532	177	177	142	M12x35	16	229,0
979522089	CL 65-720/2/22.0K	475	238	238	58	519	X	65	122	940	554	177	177	142	M12x35	16	257,0
979526528	CL 65-930/2/22.0K	475	238	238	58	519	X	65	122	940	554	177	177	142	M12x35	16	258,0
979522090	CL 65-930/2/30.0K	475	238	238	38	557	X	65	122	1044	656	200	200	142	M12x35	16	297,0

CL 2 poles DN80F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979522060	CL 80-180/2/3.0K	360	180	180	84	360	463	80	103	624	306	141	141	142	M12x35	16	81,0
979522061	CL 80-210/2/4.0K	360	180	180	72	372	482	80	103	640	306	168	168	142	M12x35	16	89,0
979522062	CL 80-240/2/5.5K	360	180	180	48	399	568	80	103	718	346	150	150	142	M12x35	16	118,0
979522063	CL 80-250/2/7.5K	440	220	220	88	486	655	80	111	725	371	171	150	170	M12x35	16	133,0
979522064	CL 80-330/2/11.0K	440	220	220	60	486	X	80	111	872	489	175	175	170	M12x35	16	188,0
979522065	CL 80-400/2/15.0K	440	220	220	60	486	X	80	111	872	489	175	175	170	M12x35	16	200,0
979522066	CL 80-520/2/18.5K	500	250	250	90	516	X	80	113	922	533	182	177	160	M12x35	16	235,0
979522067	CL 80-570/2/22.0K	500	250	250	70	532	X	80	113	944	554	182	177	160	M12x35	16	265,0
979526530	CL 80-700/2/22.0K	500	250	250	70	532	X	80	113	944	554	182	177	160	M12x35	16	266,0
979522068	CL 80-700/2/30.0K	500	250	250	50	568	X	80	113	1051	656	200	200	160	M12x25	16	323,0

CL 2 poles DN100F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979527381	CL 100-270/2/11.0S	475	300	175	/	/	/	100	224	916	466	/	/	/	/	10	160,0
979527382	CL 100-340/2/15.0S	475	300	175	/	/	/	100	224	916	466	/	/	/	/	10	170,0
979527324	CL 100-380/2/18.5S	475	300	175	/	/	/	100	224	916	466	/	/	/	/	10	185,0
979527383	CL 100-430/2/18.5S	550	300	250	/	/	/	100	202	980	534	/	/	/	/	10	200,0
979527384	CL 100-430/2/22.0S	550	300	250	/	/	/	100	202	965	519	/	/	/	/	10	230,0
979527385	CL 100-460/2/22.0S	550	300	250	/	/	/	100	202	965	519	/	/	/	/	10	230,0
979527386	CL 100-520/2/30.0S	550	300	250	/	/	/	100	209	1010	555	/	/	/	/	10	250,0
979527387	CL 100-590/2/37.0S	550	300	250	/	/	/	100	209	1010	555	/	/	/	/	10	300,0
979527388	CL 100-740/2/45.0S	580	300	280	/	/	/	100	204	1077	625	/	/	/	/	10	340,0

CL 2 poles DN125F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979529926	CL 125-210/2/15.0S	600	215	325	/	/	/	125	239	949	466	/	/	/	/	10	205,0
979529927	CL 125-300/2/18.5S	600	215	325	/	/	/	125	239	949	466	/	/	/	/	10	250,0

CL 4 poles - Q/H performance

CL 4 poles DN32F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					1	2	3	4	5	6	7	8	8,5	9	9,5	10	11	12
979525263	CL 32-80/4/0.25K	0,25	0,7	H [m]	7,2	7,1	7,0	6,8	6,6	6,3	5,9	5,5	5,3	5,1	4,8	4,6	4,1	3,5
979525264	CL 32-100/4/0.37K	0,37	1,1		8,9	8,8	8,7	8,6	8,4	8,1	7,7	7,3	7,1	6,8	6,5	6,2	5,4	4,6

CL 4 poles DN40F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					1,80	2,40	3	4,5	6	7,5	9	10,5	12	13,5	15	18	21	24
979526541	CL 40-65/4/0.37S	0,37	1,2	H [m]	6,6	6,6	6,6	6,5	6,4	6,3	6,1	5,9	5,6	5,2	4,7	3,5		
979526542	CL 40-90/4/0.55S	0,55	1,2		9,2	9,2	9,2	9,1	9,0	8,7	8,4	8,0	7,4	6,8	6,0	4,2		
979525265	CL 40-110/4/0.75K	0,75	1,7		11,1	11,1	11,0	10,9	10,7	10,5	10,3	10,0	9,6	9,2	8,8	7,7		
979525266	CL 40-140/4/1.1K	1,1	2,4		15,2	15,2	15,1	15,0	14,8	14,6	14,4	14,1	13,8	13,4	12,9	11,9	10,6	

CL 4 poles DN50F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					3	4,5	6	7,5	9	10,5	12	13,5	15	18	21	24	27	30
979526543	CL 50-50/4/0.37S	0,37	1,2	H [m]	5,1	5,0	5,0	4,9	4,8	4,6	4,5	4,3	4,0	3,5	2,7	1,9		
979526544	CL 50-65/4/0.55S	0,55	1,2		6,5	6,5	6,4	6,4	6,3	6,3	6,2	6,1	6,0	5,7	5,2	4,5	3,6	
979526545	CL 50-70/4/0.55S	0,55	1,2		7,2	7,2	7,2	7,1	7,0	6,9	6,8	6,6	6,5	6,0	5,3	4,5		
979527077	CL 50-75/4/0.55K	0,55	1,4		7,6	7,6	7,5	7,4	7,3	7,1	6,8	6,6	6,3	5,5	4,6	3,5	2,2	
979526546	CL 50-85/4/0.75S	0,75	2,1		8,7	8,7	8,7	8,7	8,6	8,5	8,4	8,3	8,1	7,6	7,1	6,3	5,4	4,4
979527078	CL 50-90/4/0.75K	0,75	1,7		9,0	8,9	8,9	8,8	8,6	8,5	8,3	8,1	7,8	7,1	6,2	5,1	3,7	
979526483	CL 50-110/4/0.75K	0,75	1,7		10,3	10,3	10,2	10,1	10,0	9,9	9,7	9,5	9,3					
979526484	CL 50-110/4/1.1K	1,1	2,4		10,6	10,6	10,5	10,5	10,4	10,3	10,1	9,9	9,7	9,2	8,4	7,5	6,4	4,9
979525270	CL 50-120/4/1.1K	1,1	2,4		12,5	12,5	12,5	12,5	12,4	12,3	12,2	12,0	11,9	11,4	10,9	10,2	9,4	
979525271	CL 50-140/4/1.5K	1,5	3,2		14,7	14,7	14,7	14,7	14,6	14,5	14,4	14,3	14,1	13,7	13,2	12,5	11,8	11,0
979525267	CL 50-190/4/2.2K	2,2	4,6		18,7	18,7	18,7	18,6	18,6	18,4	18,3	18,1	18,0	17,5	16,9	16,3	15,6	14,7
979525268	CL 50-230/4/3.0K	3,0	6,2		21,7	21,6	21,6	21,5	21,5	21,4	21,3	21,2	21,1	20,7	20,3	19,8	19,1	18,3

CL 4 poles DN65F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					9	10,5	12	13,5	15	18	21	24	27	30	36	42	48	54
979526485	CL 65-50/4/0.55K	0,55	1,4	H [m]	4,8	4,7	4,6	4,4	4,3	3,9	3,4	2,8	2,1					
979526548	CL 65-50/4/0.55S	0,55	1,2		4,8	4,7	4,7	4,7	4,6	4,5	4,3	4,2	3,9	3,6				
979526549	CL 65-60/4/0.75S	0,75	2,1		6,1	6,1	6,1	6,1	6,0	6,0	5,9	5,7	5,5	5,3	4,5	3,5		
979526486	CL 65-70/4/0.75K	0,75	1,7		6,8	6,8	6,7	6,7	6,6	6,3	5,9	5,4	4,8	3,9				
979526487	CL 65-90/4/0.75K	0,75	1,7		9,8	9,8	9,7	9,7	9,6									
979526488	CL 65-90/4/1.1K	1,1	2,4		10,0	10,0	9,9	9,8	9,8	9,6	9,3	9,0	8,6	8,1	6,9	5,2		
979526552	CL 65-105/4/1.5S	1,5	3,5		10,5	10,5	10,5	10,5	10,4	10,3	10,2	10,0	9,8	9,5	8,7	7,6	6,2	
979525272	CL 65-110/4/1.1K	1,1	2,4		10,4	10,3	10,3	10,2	10,1	9,9	9,6	9,3	8,9					
979525273	CL 65-130/4/1.5K	1,5	3,2		11,8	11,7	11,7	11,7	11,6	11,4	11,2	10,9	10,5	9,9	8,6			
979525274	CL 65-150/4/2.2K	2,2	4,6		14,7	14,7	14,6	14,6	14,5	14,4	14,2	13,9	13,6	13,2	12,1	10,6		
979525275	CL 65-170/4/3.0K	3,0	6,2		16,1	16,1	16,1	16,0	16,0	15,9	15,7	15,5	15,2	14,8	13,7	12,2	10,2	
979526553	CL 65-180/4/3.0S	3,0	6,2		18,5	18,5	18,5	18,5	18,5	18,3	18,1	17,8	17,4	16,9	15,4	13,4	10,6	7,1
979527389	CL 65-220/4/3.0S	3,0	7,1		22,1	22,1	22,1	22,1	22,1	22,1	22,0	21,9	21,6	21,3	20,2			
979527390	CL 65-220/4/4.0S	4,0	8,3		22,3	22,3	22,3	22,3	22,2	22,2	22,0	21,8	21,5	21,1	20,0	18,4	16,3	13,5
979525276	CL 65-240/4/4.0K	4,0	8,2		22,5	22,5	22,4	22,3	22,3	22,1	21,8	21,6	21,2	20,8	19,8	18,6	17,1	

CL 4 poles DN80F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					15	18	21	24	27	30	36	42	48	54	60	75	85	105
979526554	CL 80-45/4/0.55S	0,55	1,2	H [m]	4,2	4,1	4,0	3,9	3,8	3,7	3,4	3,0	2,5	1,8				
979526555	CL 80-60/4/0.75S	0,75	2,1		5,4	5,4	5,3	5,2	5,1	5,0	4,7	4,3	3,8	3,2	2,4			
979525277	CL 80-70/4/1.1K	1,1	2,4		6,7	6,7	6,6	6,6	6,5	6,4	6,1	5,7	5,2	4,6	3,9			
979526467	CL 80-70/4/1.5K	1,5	3,2		7,0	6,9	6,8	6,8	6,7	6,6	6,3	6,0	5,5	5,0	4,4	2,3		
979525278	CL 80-90/4/1.5K	1,5	3,2		8,6	8,6	8,5	8,5	8,4	8,3	8,2	7,9	7,6					
979526468	CL 80-90/4/2.2K	2,2	4,6		8,5	8,5	8,4	8,4	8,3	8,2	8,1	7,8	7,5	7,0	6,5	4,4		
979525279	CL 80-110/4/2.2K	2,2	4,6		9,6	9,6	9,5	9,5	9,4	9,3	9,2	9,0	8,7	8,3	7,8	6,2		
979526556	CL 80-115/4/2.2S	2,2	5,0		11,5	11,5	11,5	11,4	11,4	11,3	11,0	10,7	10,2	9,5	8,7			
979525286	CL 80-150/4/3.0K	3,0	6,2		14,5	14,4	14,4	14,3	14,3	14,2	14,0	13,7	13,3	12,8	12,3			
979525287	CL 80-170/4/4.0K	4,0	8,2		15,9	15,9	15,8	15,8	15,8	15,7	15,5	15,3	15,0	14,6	14,2	12,7	11,5	
979526557	CL 80-205/4/5.5S	5,5	11,2		21,2	21,2	21,3	21,3	21,2	21,2	20,9	20,5	19,8	18,9	17,8	13,5	9,4	
979526558	CL 80-260/4/7.5S	7,5	15,4		26,3	26,3	26,3	26,3	26,3	26,2	26,0	25,7	25,1	24,4	23,4	20,1	16,9	
979526559	CL 80-330/4/11.0S	11,0	21,3		33,4	33,5	33,5	33,5	33,5	33,5	33,4	33,2	32,8	32,4	31,7	29,3	26,9	19,9
979526560	CL 80-360/4/15.0S	15,0	29,4		36,6	36,6	36,6	36,6	36,7	36,7	36,6	36,5	36,3	36,0	35,5	33,5	31,5	25,0

CL 4 poles DN100F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					24	27	30	36	42	48	54	60	75	90	105	120	135	150
979525280	CL 100-70/4/1.5K	1,5	3,3	H [m]	6,9	6,8	6,7	6,6	6,4	6,2	6,0	5,8						
979525281	CL 100-90/4/2.2K	2,2	4,5		8,8	8,7	8,7	8,6	8,4	8,3	8,1	7,9	7,2	6,2	4,9			
979526494	CL 100-110/4/2.2K	2,2	4,6		9,9	9,9	9,8	9,6	9,5	9,3	9,2	9,1						
979525282	CL 100-110/4/3.0K	3,0	6,0		10,2	10,1	10,1	10,0	9,9	9,8	9,7	9,5	9,0	8,2	7,1	5,6		
979525288	CL 100-130/4/4.0K	4,0	8,9		12,9	12,8	12,7	12,5	12,3	12,0	11,6	11,2	10,0	8,5				
979526561	CL 100-130/4/4.0S	4,0	6,6		13,1	13,1	13,1	13,0	12,9	12,8	12,7	12,5	11,8	10,9	9,6	7,9		
979526562	CL 100-145/4/4.0S	4,0	8,5		14,4	14,4	14,4	14,3	14,2	14,0	13,8	13,4	12,2	10,2				
979525289	CL 100-170/4/5.5K	5,5	10,4		17,6	17,6	17,6	17,5	17,5	17,4	17,2	17,1	16,5	15,6	14,4			
979526563	CL 100-175/4/5.5S	5,5	11,3		17,9	17,9	17,9	17,8	17,7	17,5	17,2	16,9	15,8	14,3	12,5	10,3		
979526564	CL 100-220/4/7.5S	7,5	15,0		21,9	21,9	21,9	21,9	21,8	21,7	21,6	21,4	20,6	19,5	18,0	16,0	13,5	
979526565	CL 100-250/4/11.0S	11,0	21,3		24,9	24,9	25,0	25,0	25,0	24,9	24,9	24,7	24,2	23,2	21,9	20,1	17,7	14,8

CL 4 poles DN125F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					12	24	36	54	60	72	84	96	108	120	144	168	192	204
979529928	CL 125-80/4/2.2S	2,2	4,9	H [m]	8,1	7,8	7,5	7,1	6,9	6,6	6,3	5,9	5,5	5,0	3,7			
979529929	CL 125-100/4/4.0S	4,0	8,5		9,9	9,9	10,0	10,0	10,0	9,9	9,8	9,5	9,0	8,4	6,5			
979526566	CL 125-150/4/5.5S	5,5	11,3		14,7	14,8	14,8	14,7	14,6	14,3	13,8	13,1	12,2	11,1	8,4			
979526567	CL 125-180/4/7.5S	7,5	15,0		18,1	18,2	18,2	18,1	18,0	17,8	17,5	17,0	16,3	15,4	13,0	9,9		
979526568	CL 125-225/4/11.0S	11,0	21,3		22,5	22,5	22,4	22,3	22,3	22,1	22,0	21,7	21,3	20,8	19,5	17,6		
979526569	CL 125-285/4/15.0S	15,0	29,4		28,3	28,3	28,3	28,2	28,2	28,1	28,0	27,7	27,4	27,1	26,1	24,5	22,5	21,1

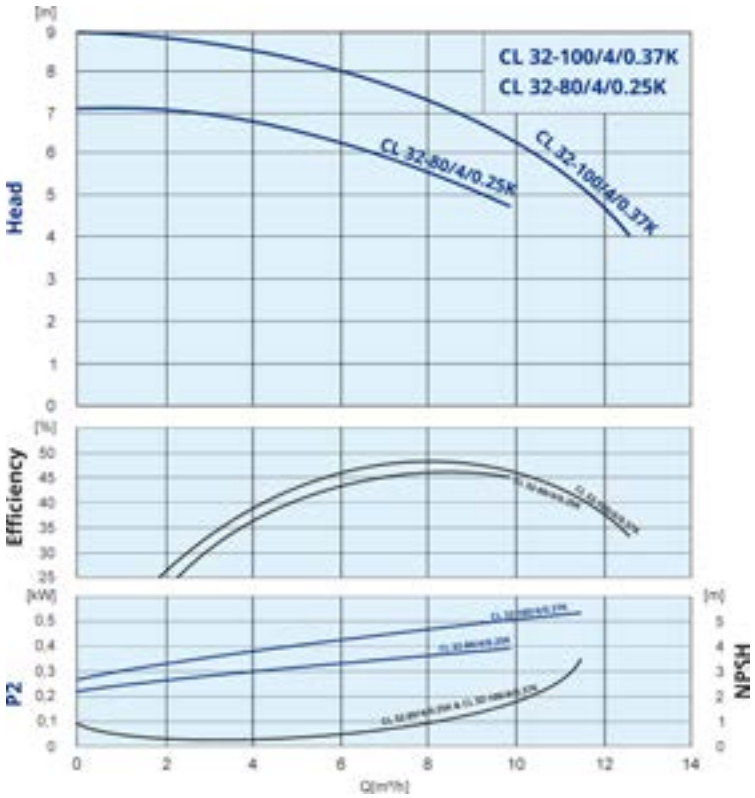
CL 4 poles DN150F

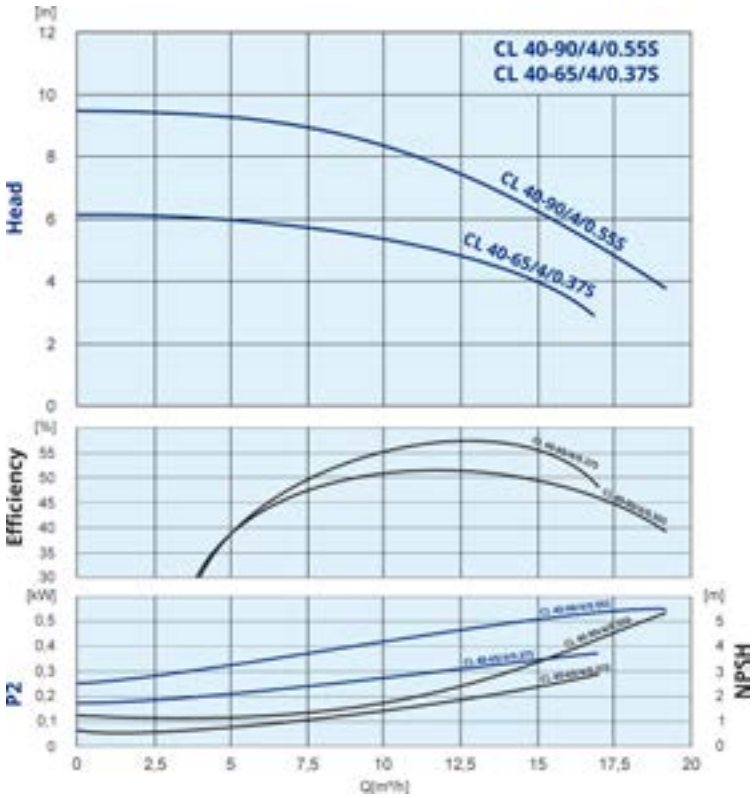
Code	Type	P [kW]	I [A]		Q [m³/h]													
					50	75	100	125	150	175	200	225	250	275	300	325	350	375
979526570	CL 150-140/4/11.0S	11,0	21,3	H [m]	14,1	14,1	14,0	13,8	13,5	13,0	12,3	11,5	10,4	9,1				
979526501	CL 150-180/4/15.0S	15,0	29,4		17,8	17,7	17,6	17,4	17,2	16,8	16,2	15,5	14,6	13,5	12,1			
979526571	CL 150-210/4/15.0S	15,0	29,8		21,0	20,8	20,6	20,2	19,6	18,6	17,3	15,6	13,4					
979529930	CL 150-220/4/22.0S	22,0	42,1		22,1	22,1	22,0	21,9	21,8	21,5	21,2	20,7	20,0	19,1	17,9			
979526572	CL 150-250/4/18.5S	18,5	35,8		24,9	24,8	24,7	24,4	23,9	23,2	22,1	20,6	18,7	16,2				
979526573	CL 150-275/4/22.0S	22,0	42,1		27,4	27,4	27,3	27,1	26,7	26,0	25,1	23,8	22,2	20,1				
979529931	CL 150-330/4/30.0S	30,0	61,5		33,1	32,9	32,7	32,3	31,8	31,3	30,5	29,6	28,5	27,2	25,7	23,9	21,9	

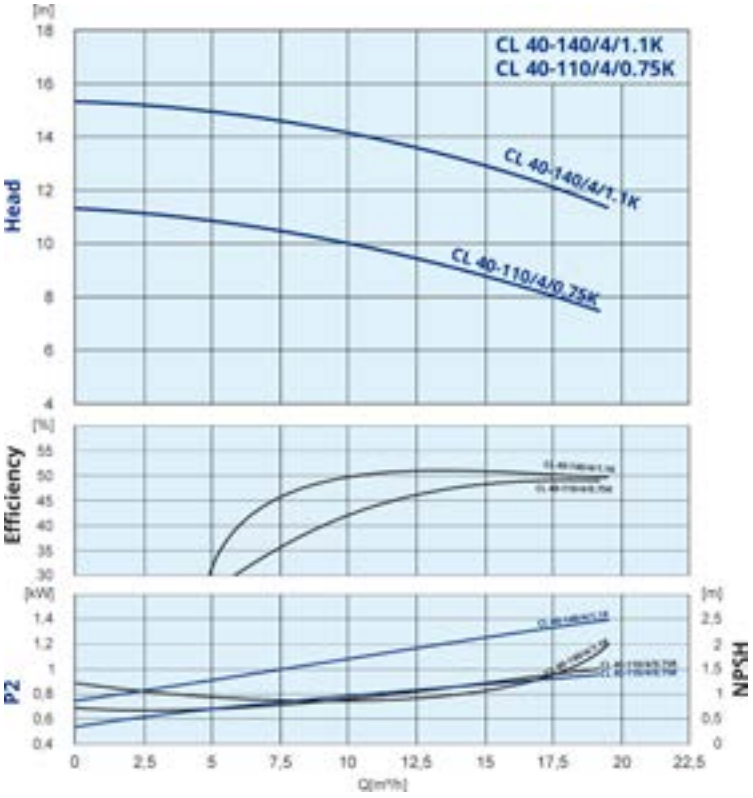
CL 4 poles DN200F

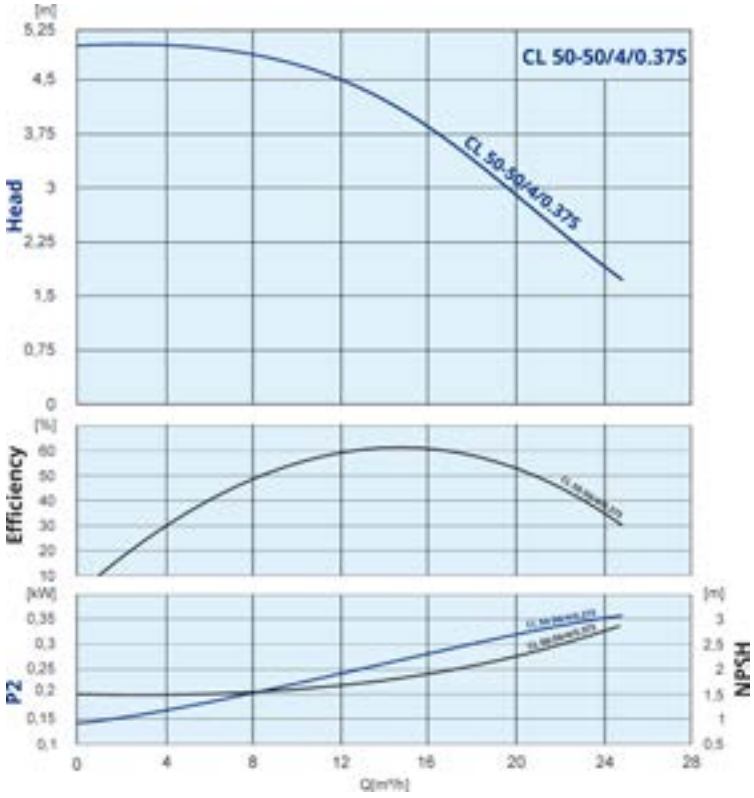
Code	Type	P [kW]	I [A]		Q [m³/h]													
					0	40	80	120	160	200	240	280	320	360	400	440	480	520
979529932	CL 200-130/4/11.0S	11,0	21,3	H [m]	12,9	12,4	11,9	11,4	10,8	10,1	9,2	8,3	7,3	6,2	4,9	3,4	1,8	
979529933	CL 200-170/4/15.0S	15,0	29,4		17,0	17,2	17,0	16,4	15,7	14,9	13,9	13,1	12,4	11,9				
979529934	CL 200-170/4/18.5S	18,5	35,8		17,0	17,2	17,0	16,4	15,7	14,9	13,9	13,1	12,4	11,9	10,4	9,0	7,4	5,6
979529935	CL 200-250/4/22.0S	22,0	42,1		24,5	24,6	24,5	24,0	23,3	22,3	21,0	19,4	17,6					
979529936	CL 200-250/4/30.0S	30,0	61,5		24,5	24,6	24,5	24,0	23,3	22,3	21,0	19,4	17,8	16,1	14,4			

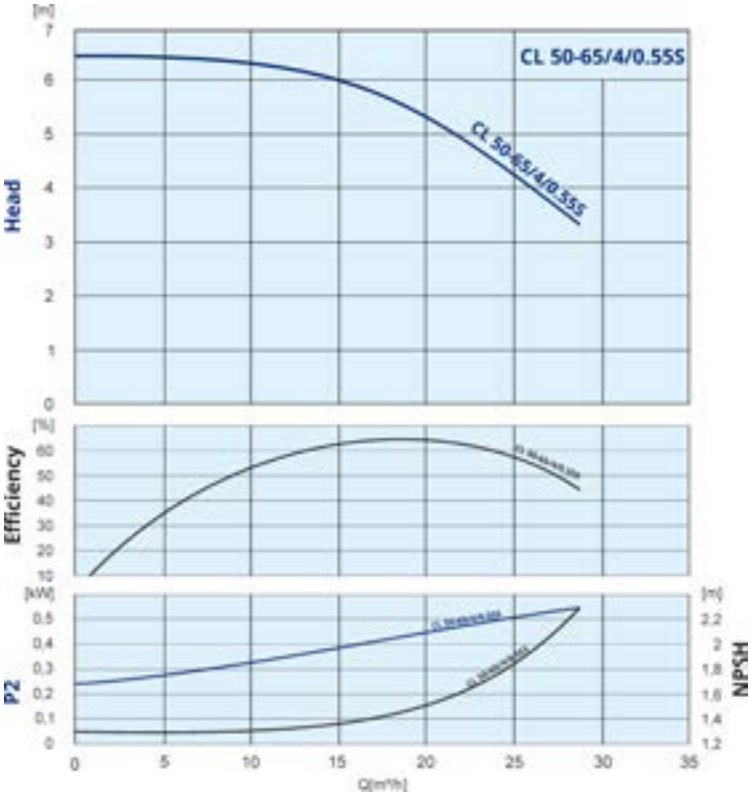
CL 4 poles - Performance curves

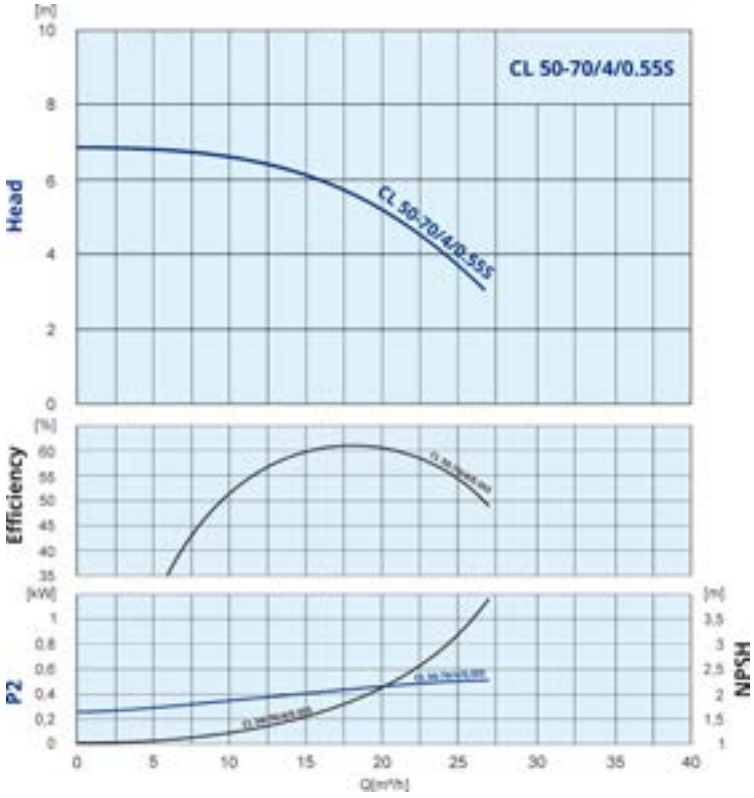


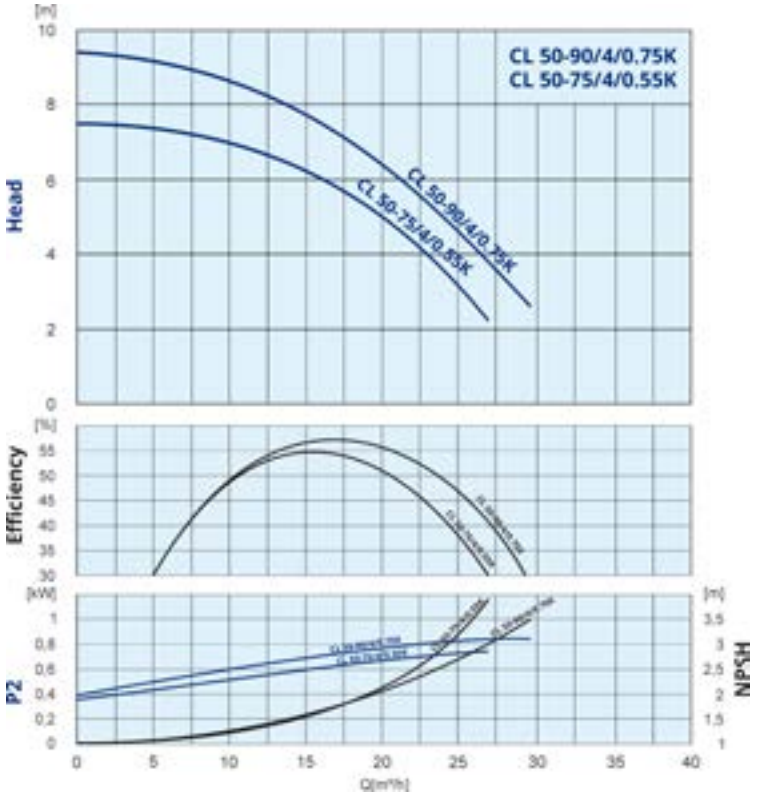


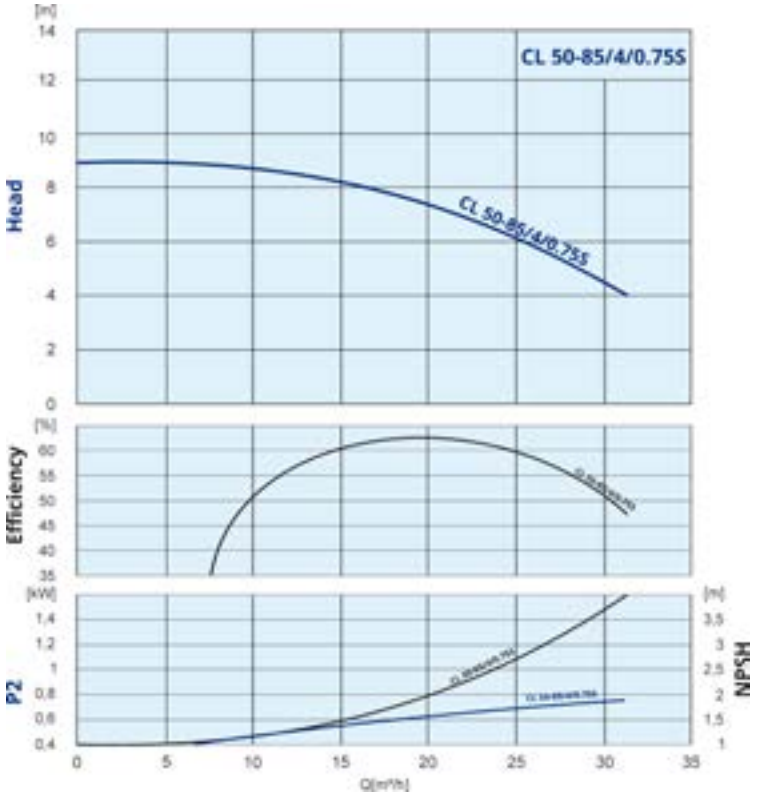

CL 40-140/4/1.1K
CL 40-110/4/0.75K
CL 40-140/4/1.1K
CL 40-110/4/0.75K
Head
Efficiency
P2
NPSH
Q[m³/h]

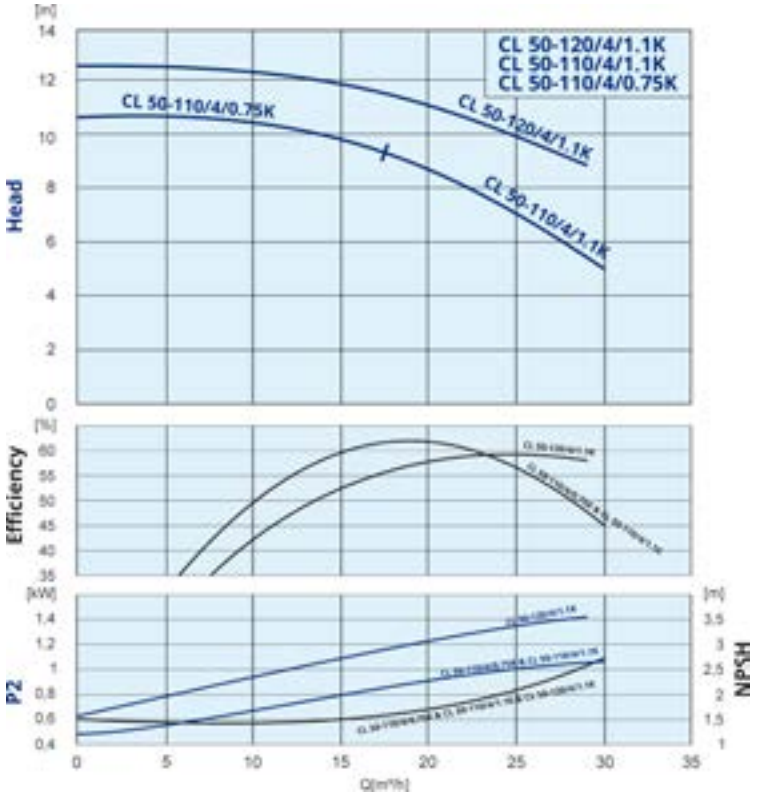

CL 50-50/4/0.37S
CL 50-50/4/0.37S
Head
Efficiency
P2
NPSH
Q[m³/h]

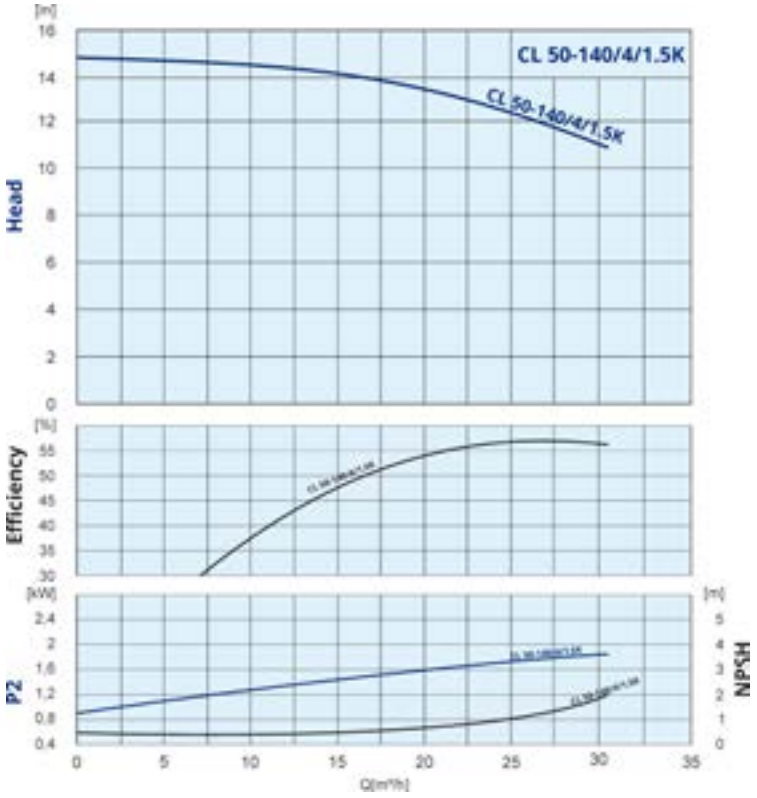

CL 50-65/4/0.55S
CL 50-65/4/0.55S
Head
Efficiency
P2
NPSH
Q[m³/h]

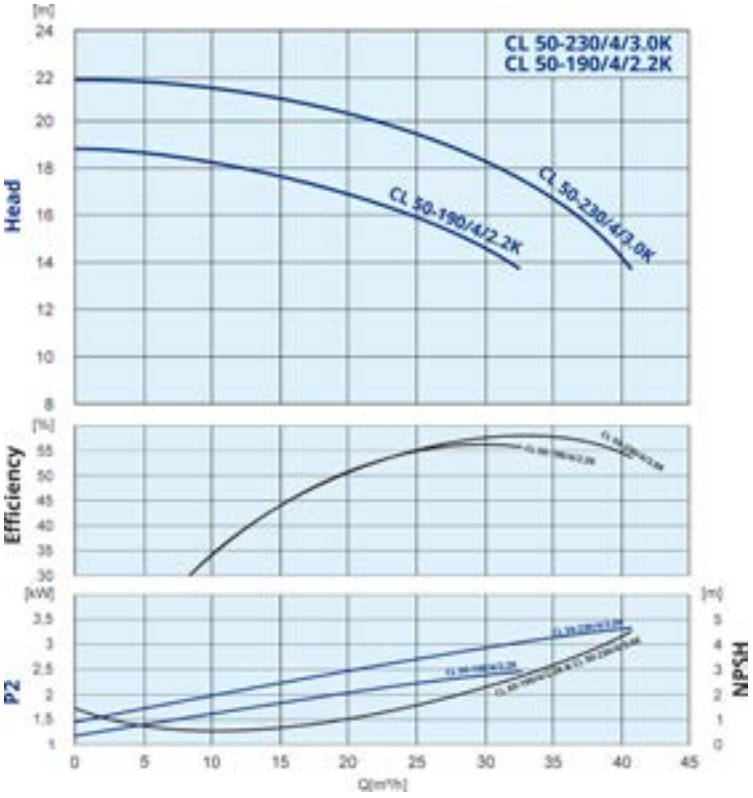

CL 50-70/4/0.55S
CL 50-70/4/0.55S
Head
Efficiency
P2
NPSH
Q[m³/h]

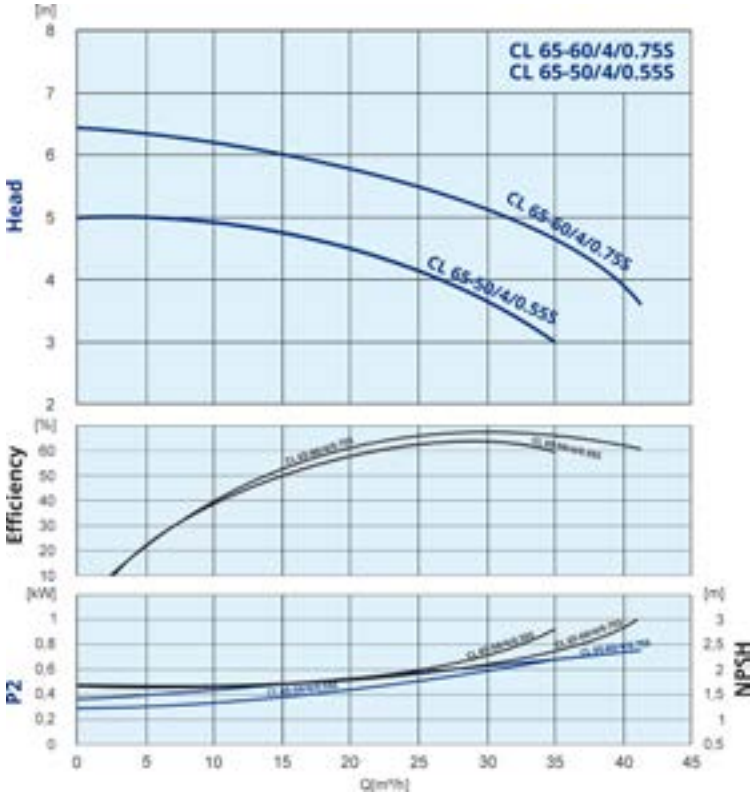

CL 50-90/4/0.75K
CL 50-75/4/0.55K
Head
Efficiency
P2
NPSH
Q[m³/h]

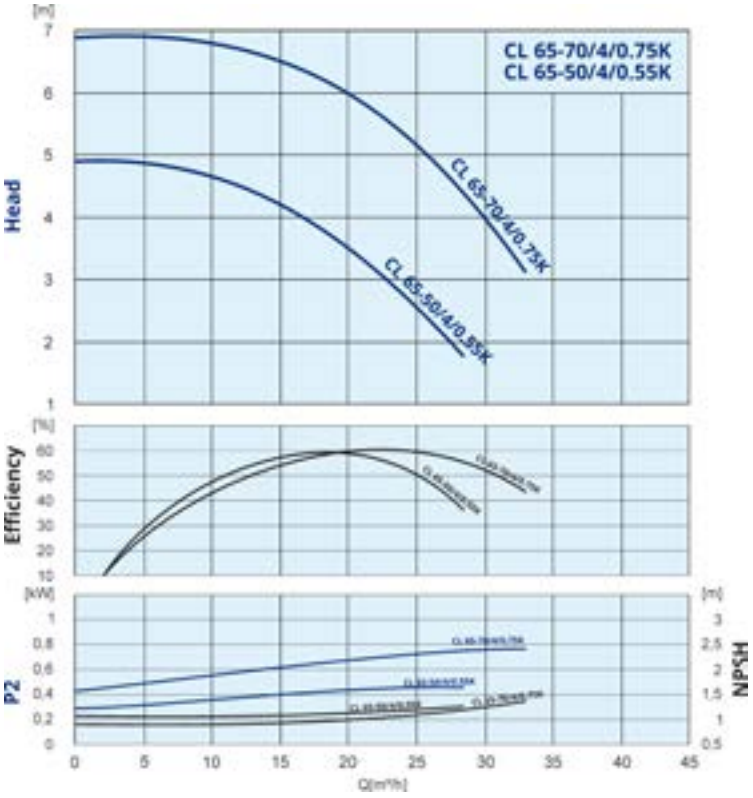

CL 50-85/4/0.75S
Head
Efficiency
P2
NPSH
Q[m³/h]

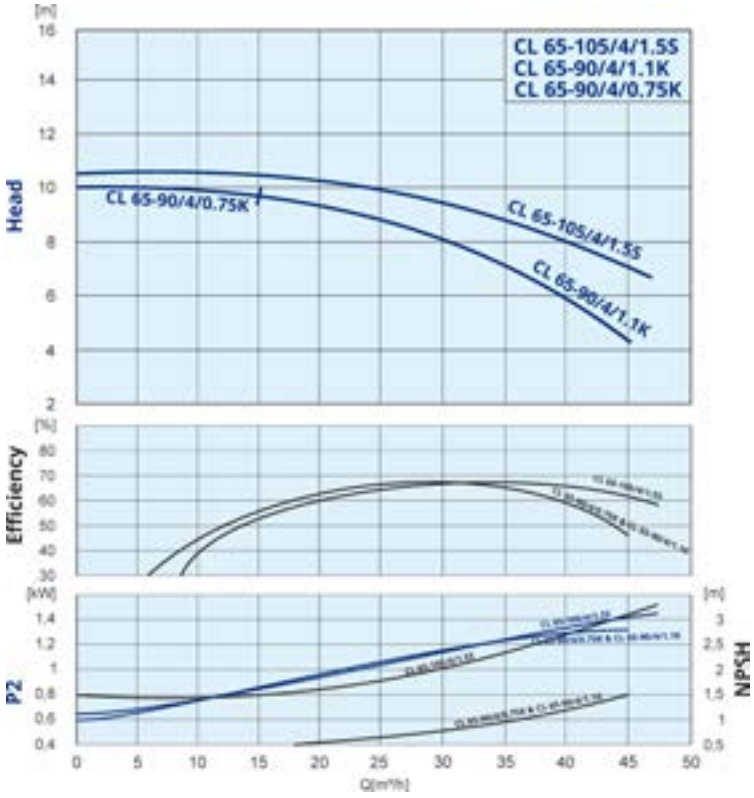

CL 50-120/4/1.1K
CL 50-110/4/1.1K
CL 50-110/4/0.75K
Head
Efficiency
P2
NPSH
Q[m³/h]

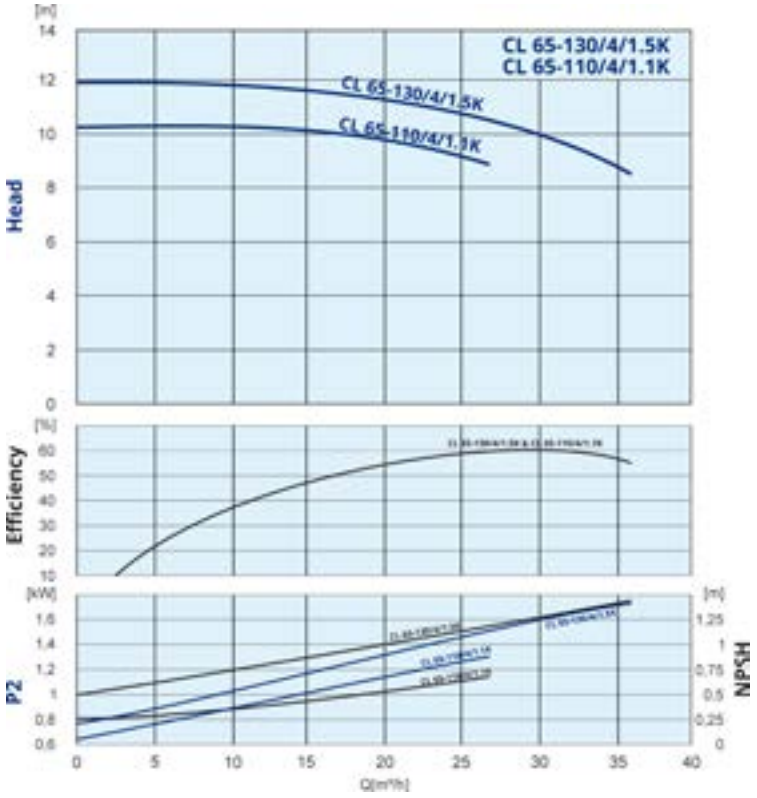

CL 50-140/4/1.5K
Head
Efficiency
P2
NPSH
Q[m³/h]

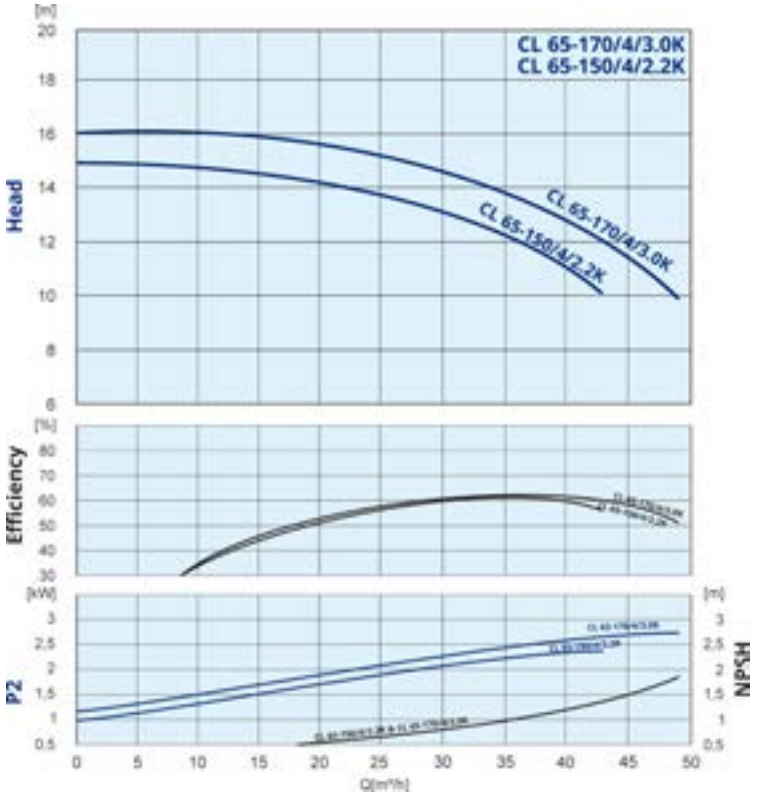

CL 50-230/4/3.0K
CL 50-190/4/2.2K
Head
Efficiency
P2
NPSH
Q[m³/h]

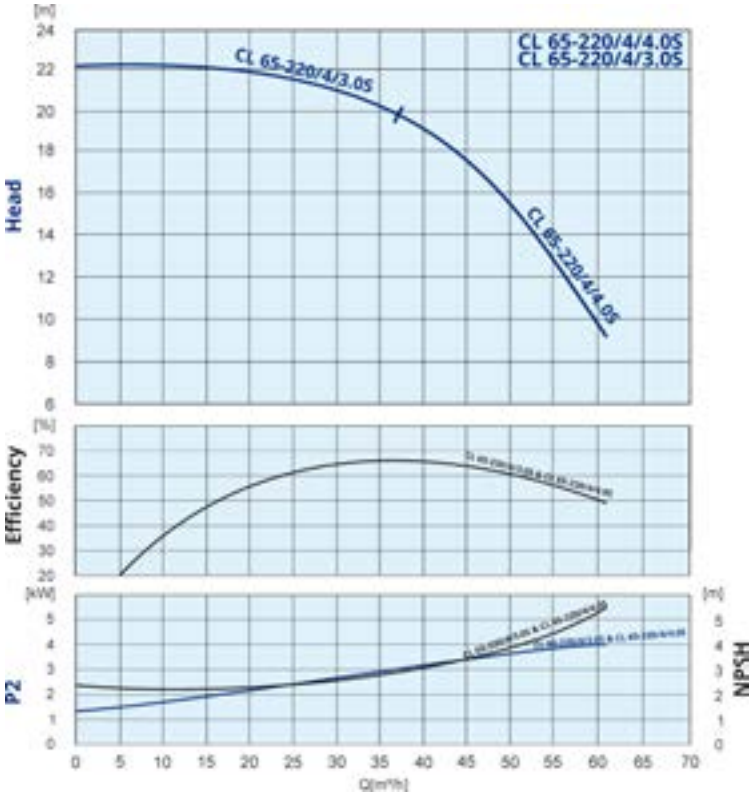

CL 65-60/4/0.75S
CL 65-50/4/0.55S
Head
Efficiency
P2
NPSH
Q[m³/h]

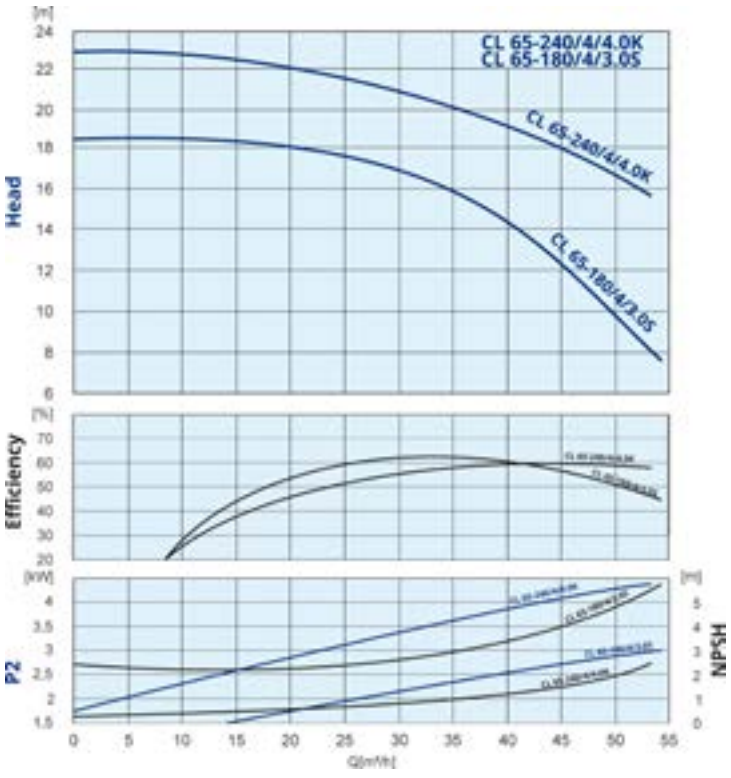

CL 65-70/4/0.75K
CL 65-50/4/0.55K
Head
Efficiency
P2
NPSH
Q[m³/h]

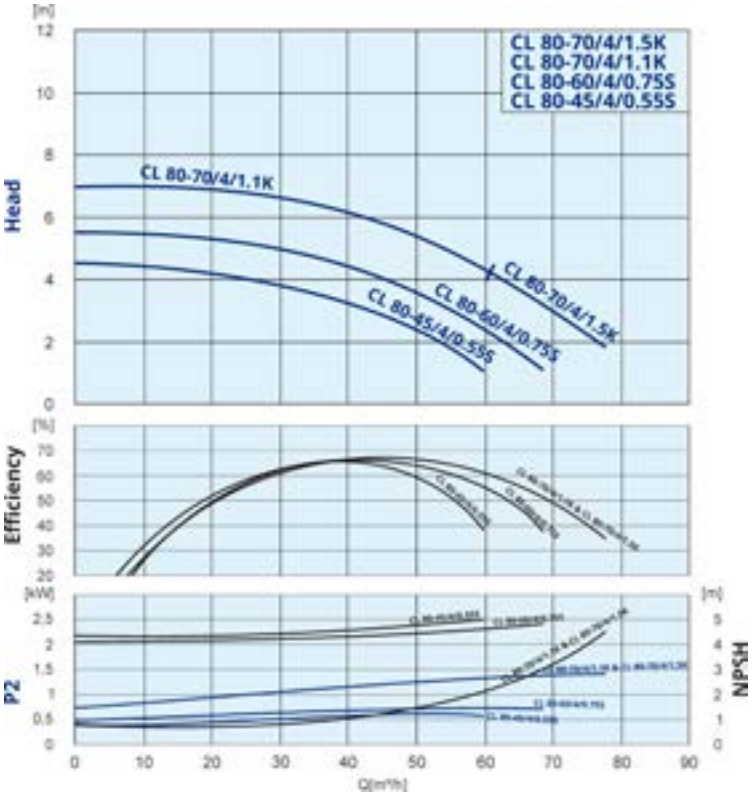

CL 65-105/4/1.5S
CL 65-90/4/1.1K
CL 65-90/4/0.75K
Head
Efficiency
P2
NPSH
Q[m³/h]

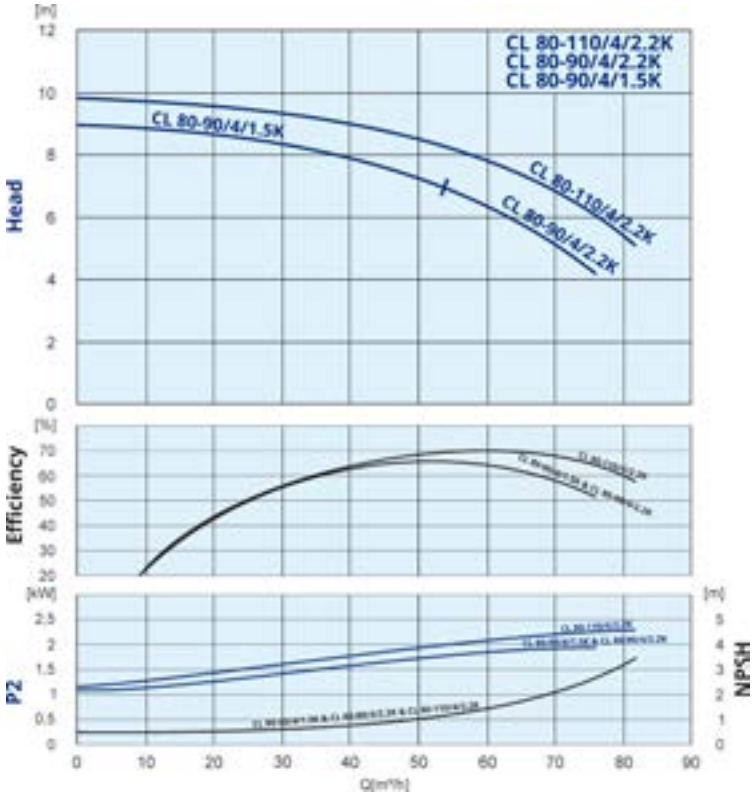

CL 65-130/4/1.5K
CL 65-110/4/1.1K
Head
Efficiency
P2
NPSH
Q[m³/h]

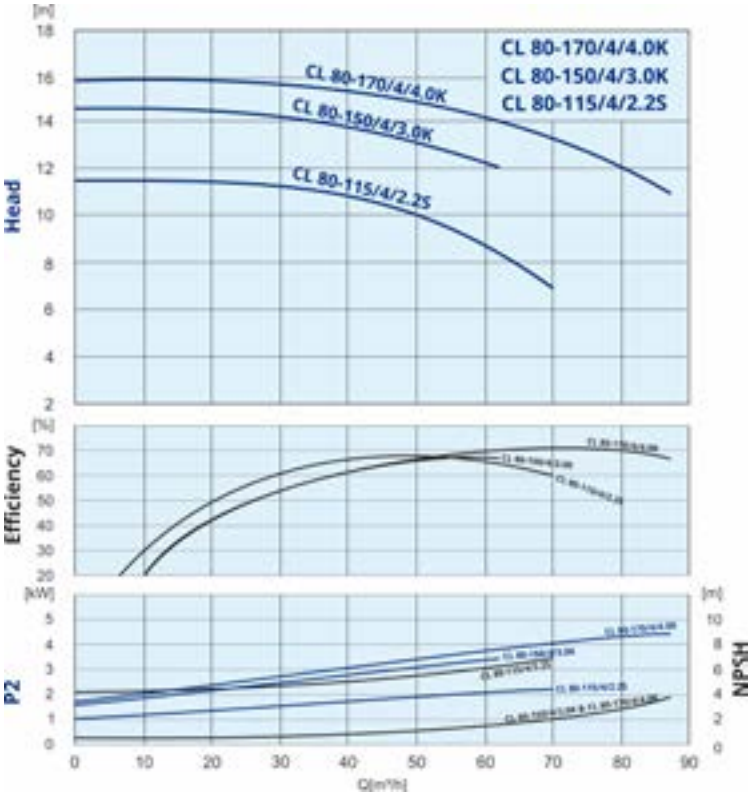

CL 65-170/4/3.0K
CL 65-150/4/2.2K
Head
Efficiency
P2
NPSH
Q[m³/h]

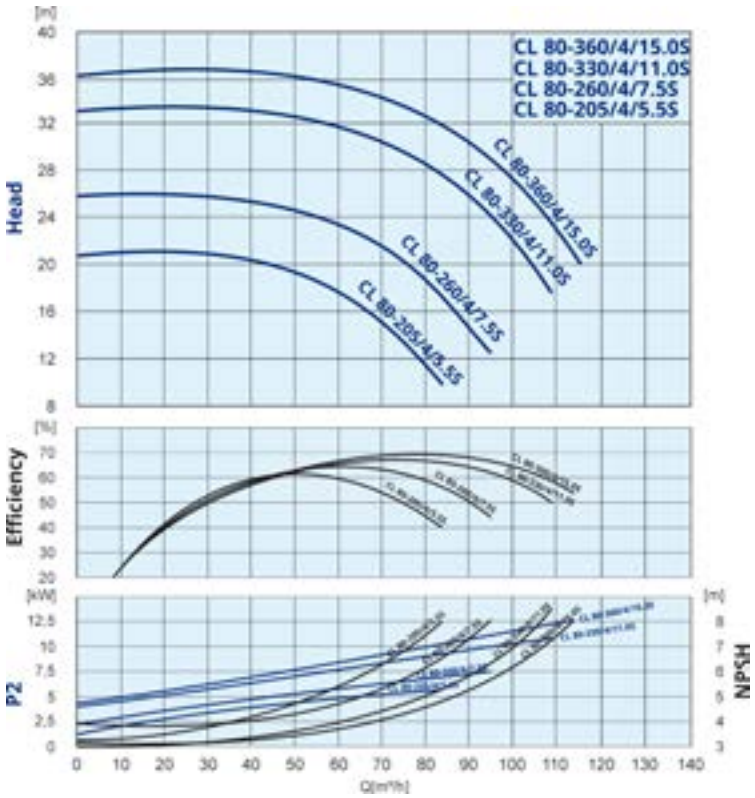

CL 65-220/4/4.0S
CL 65-220/4/3.0S
Head
Efficiency
P2
NPSH
Q[m³/h]

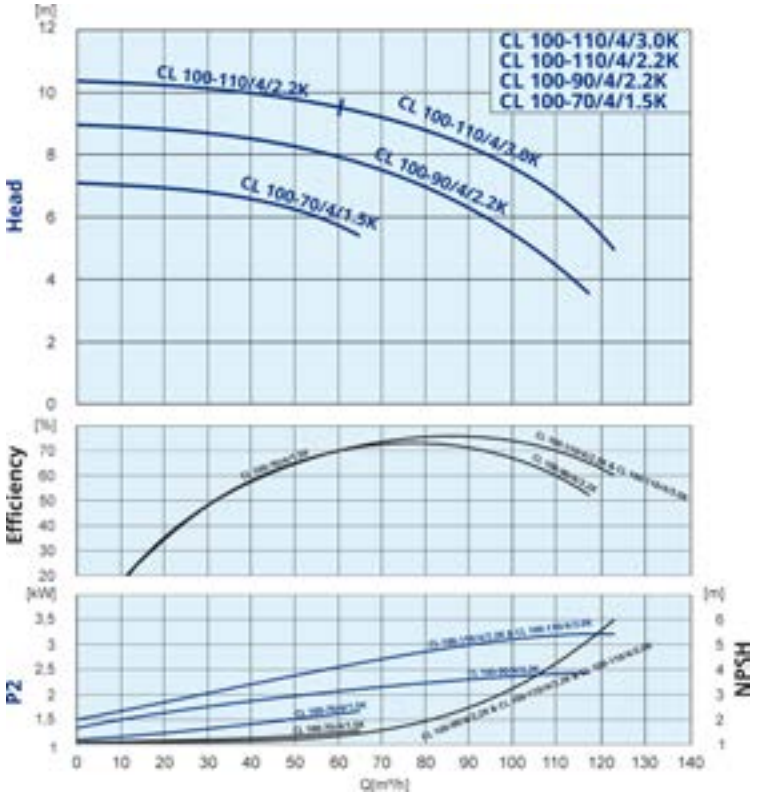

CL 65-240/4/4.0K
CL 65-180/4/3.0S
Head
Efficiency
P2
NPSH
Q[m³/h]

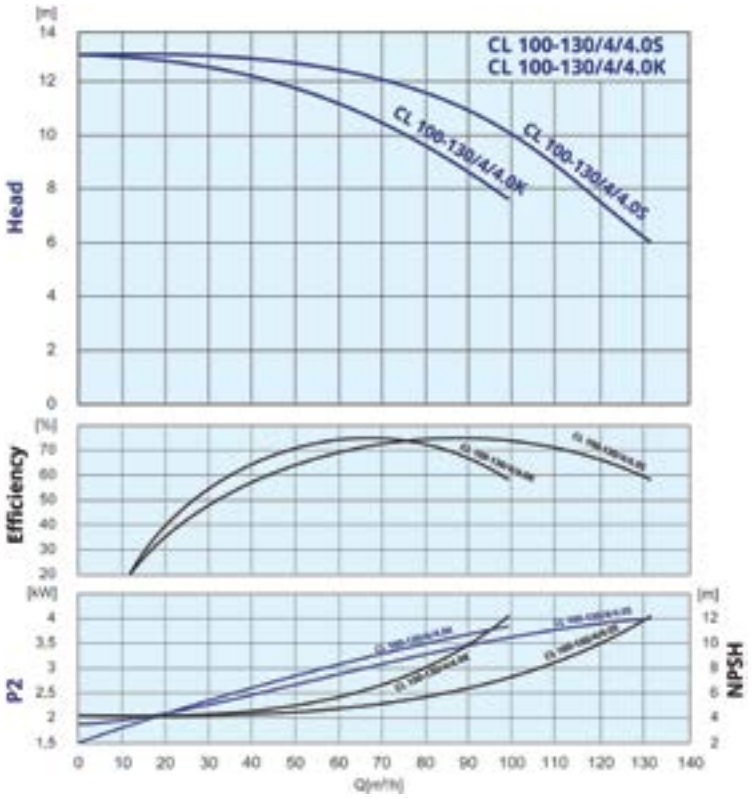

CL 80-70/4/1.5K
CL 80-70/4/1.1K
CL 80-60/4/0.75S
CL 80-45/4/0.55S
Head
Efficiency
P2
NPSH
Q[m³/h]

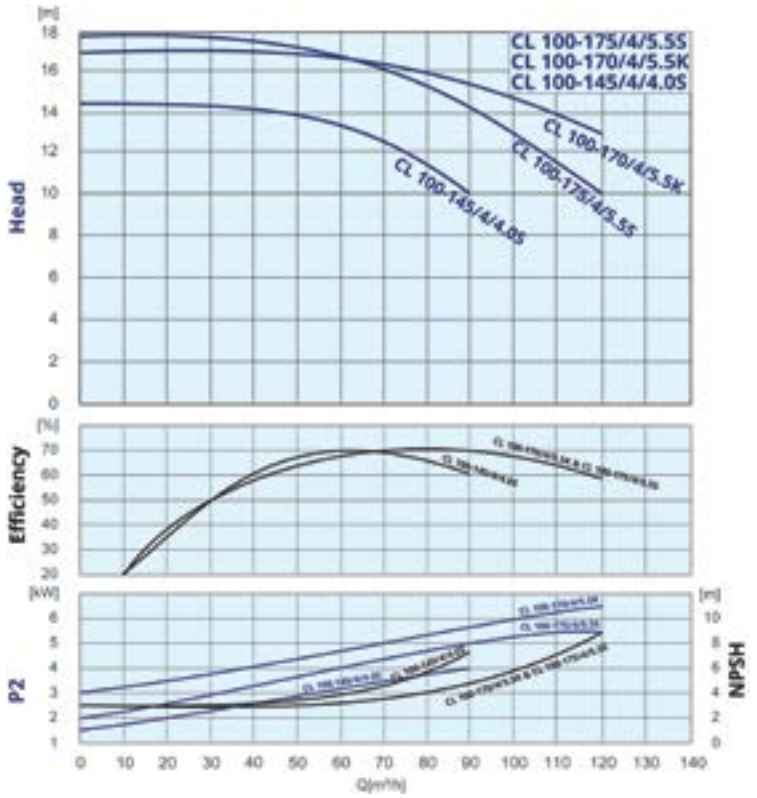

CL 80-110/4/2.2K
CL 80-90/4/2.2K
CL 80-90/4/1.5K
Head
Efficiency
P2
NPSH
Q[m³/h]

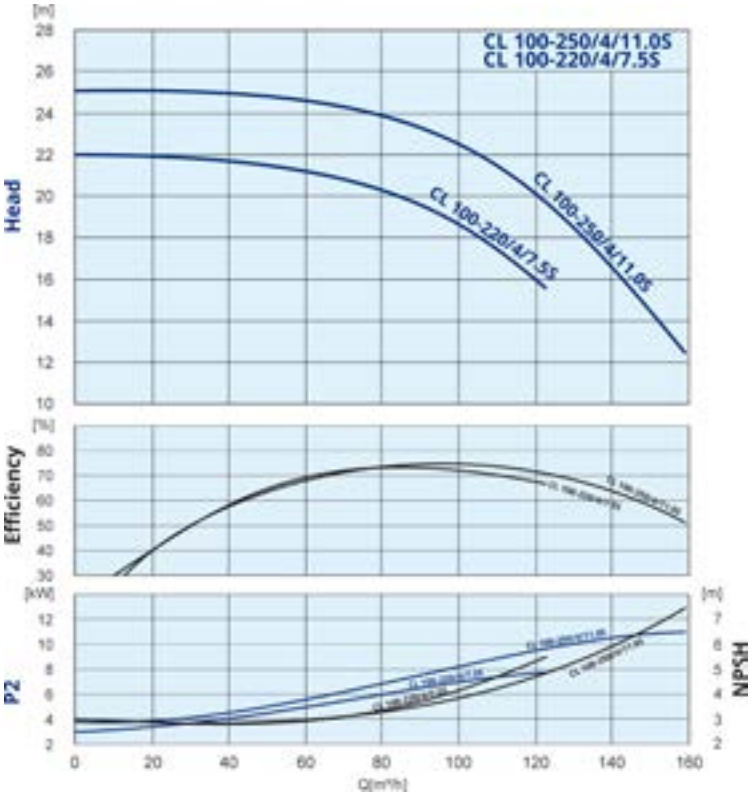

CL 80-170/4/4.0K
CL 80-150/4/3.0K
CL 80-115/4/2.2S
Head
Efficiency
P2
NPSH
Q[m³/h]

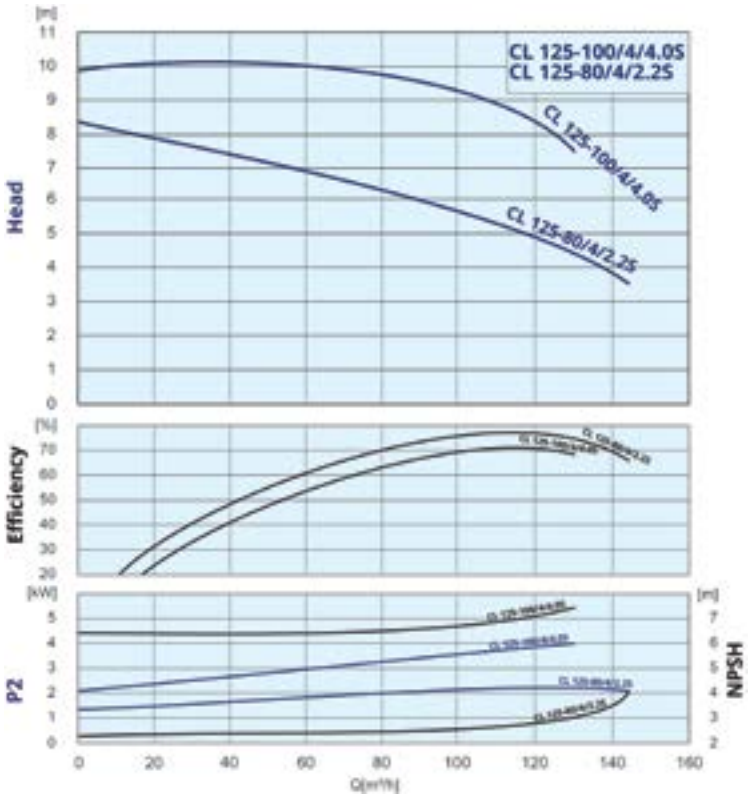

CL 80-360/4/15.0S
CL 80-330/4/11.0S
CL 80-260/4/7.5S
CL 80-205/4/5.5S
Head
Efficiency
P2
NPSH
Q[m³/h]

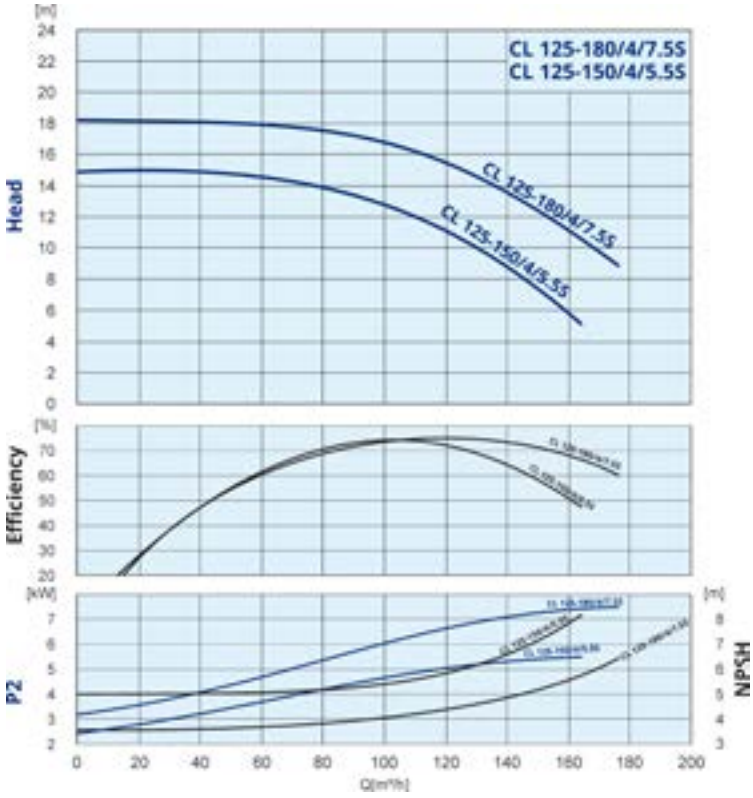

CL 100-110/4/3.0K
CL 100-110/4/2.2K
CL 100-90/4/2.2K
CL 100-70/4/1.5K
Head
Efficiency
P2
NPSH
Q[m³/h]

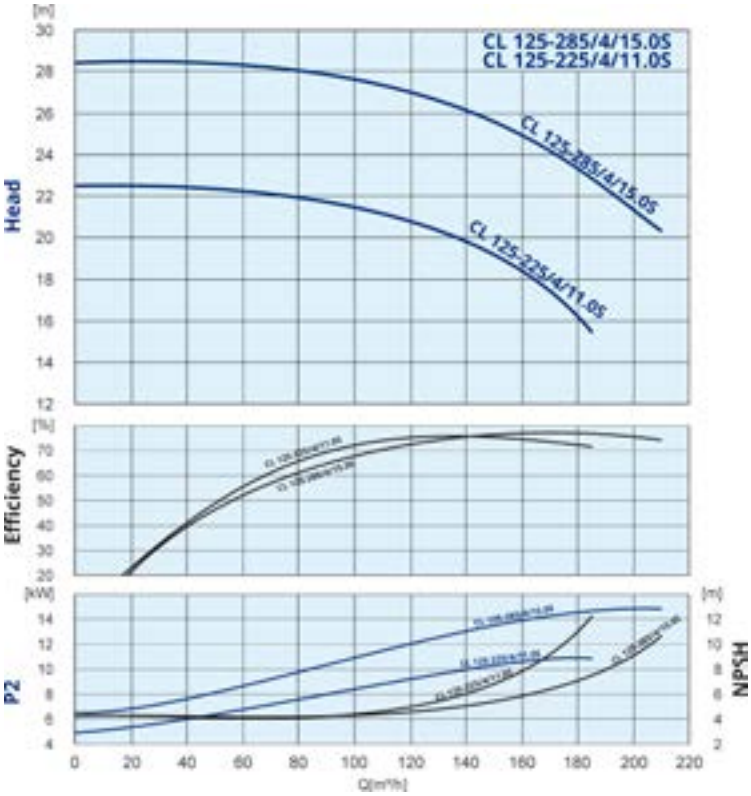

CL 100-130/4/4.0S
CL 100-130/4/4.0K
Head
Efficiency
P2
NPSH
Q[m³/h]

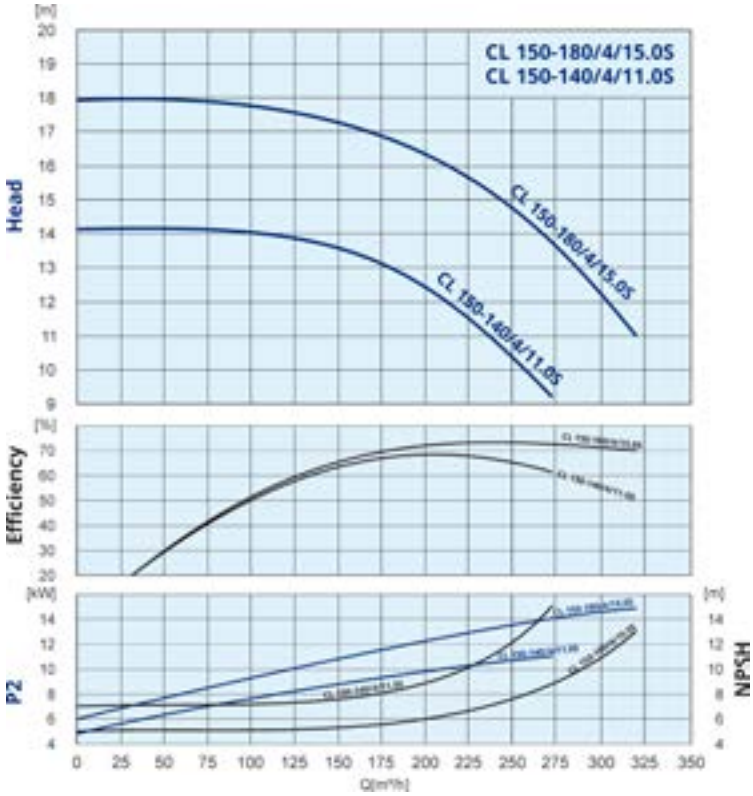

CL 100-175/4/5.5S
CL 100-170/4/5.5K
CL 100-145/4/4.0S
Head
Efficiency
P2
NPSH
Q[m³/h]

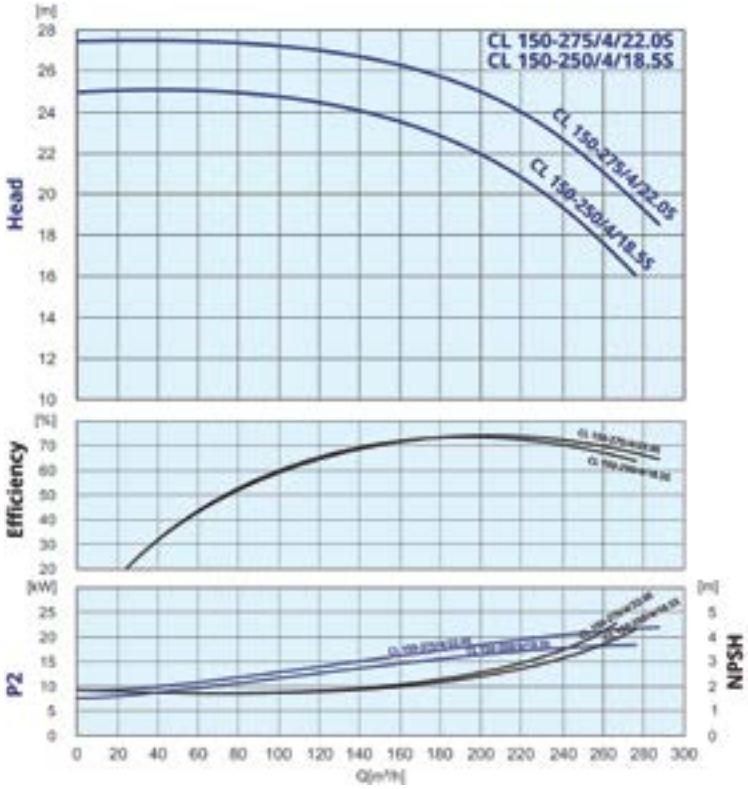

CL 100-250/4/11.0S
CL 100-220/4/7.5S
Head
Efficiency
P2
NPSH
Q[m³/h]

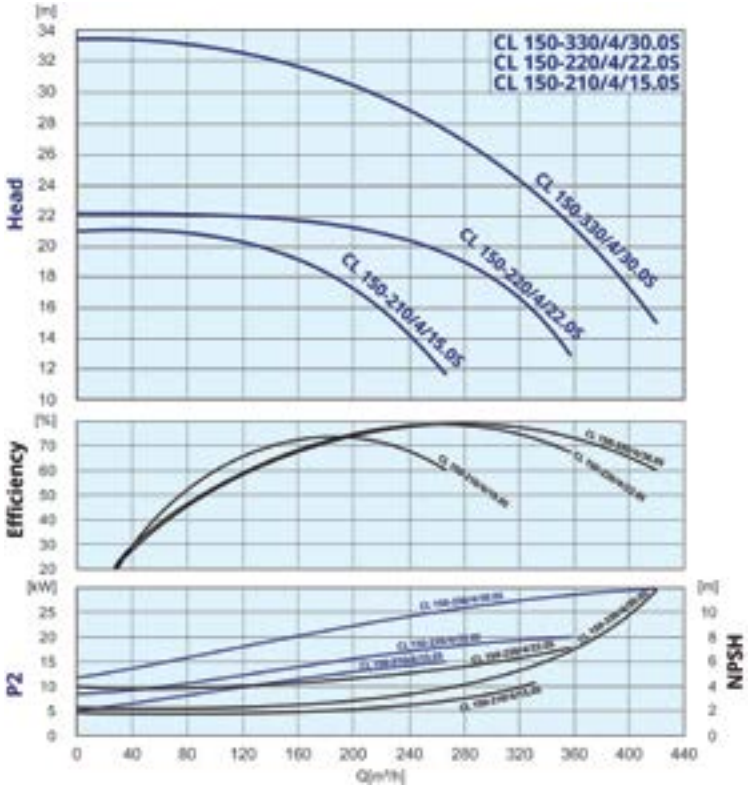

CL 125-100/4/4.0S
CL 125-80/4/2.2S
CL 125-100/4/4.0S
CL 125-80/4/2.2S
Head
Efficiency
P2
NPSH
Q[m³/h]

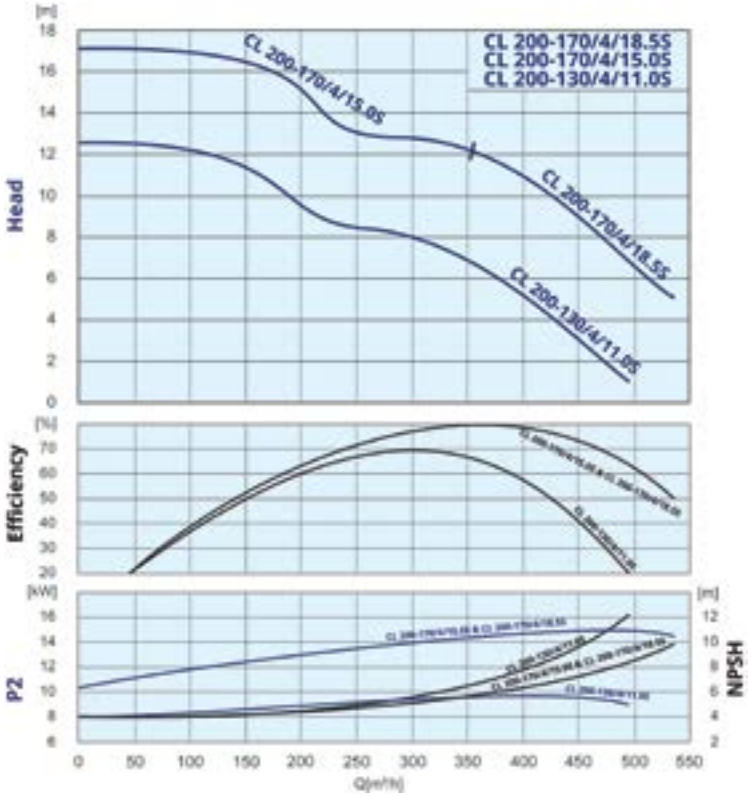

CL 125-180/4/7.5S
CL 125-150/4/5.5S
CL 125-180/4/7.5S
CL 125-150/4/5.5S
Head
Efficiency
P2
NPSH
Q[m³/h]

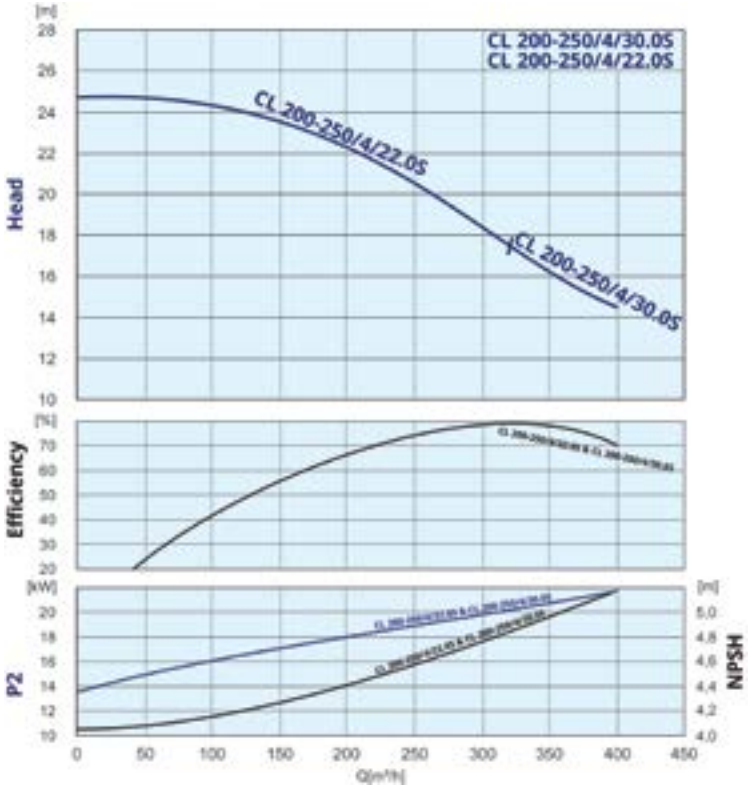

CL 125-285/4/15.0S
CL 125-225/4/11.0S
CL 125-285/4/15.0S
CL 125-225/4/11.0S
Head
Efficiency
P2
NPSH
Q[m³/h]


CL 150-180/4/15.0S
CL 150-140/4/11.0S
CL 150-180/4/15.0S
CL 150-140/4/11.0S
Head
Efficiency
P2
NPSH
Q[m³/h]

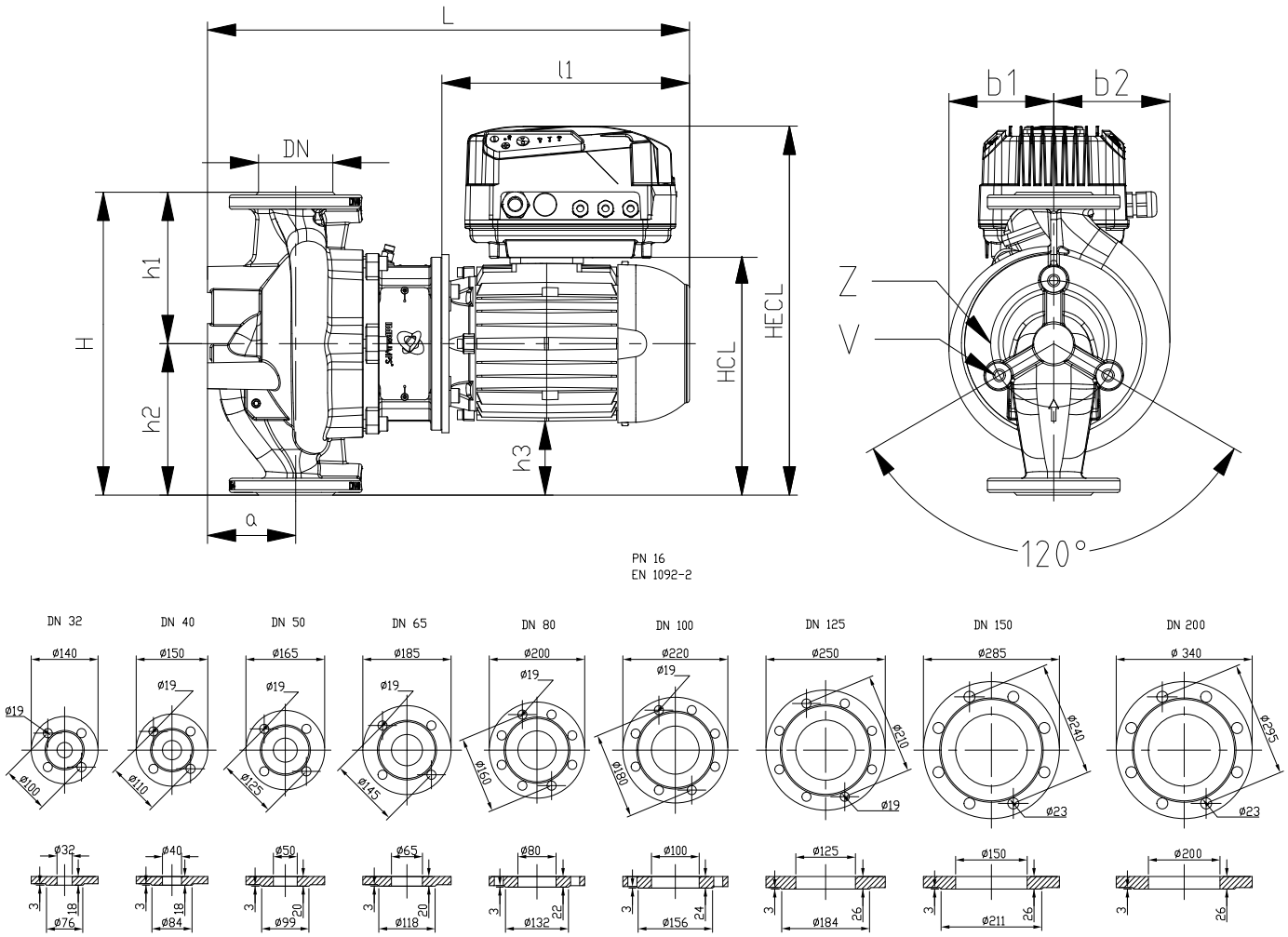

CL 150-275/4/22.0S
CL 150-250/4/18.5S
CL 150-275/4/22.0S
CL 150-250/4/18.5S
Head
Efficiency
P2
NPSH
Q[m³/h]


CL 150-330/4/30.0S
CL 150-220/4/22.0S
CL 150-210/4/15.0S
CL 150-330/4/30.0S
CL 150-220/4/22.0S
CL 150-210/4/15.0S
Head
Efficiency
P2
NPSH
Q[m³/h]


CL 200-170/4/18.5S
CL 200-170/4/15.0S
CL 200-130/4/11.0S
CL 200-170/4/15.0S
CL 200-170/4/18.5S
CL 200-130/4/11.0S
Head
Efficiency
P2
NPSH
Q[m³/h]


CL 200-250/4/30.0S
CL 200-250/4/22.0S
CL 200-250/4/22.0S
CL 200-250/4/30.0S
Head
Efficiency
P2
NPSH
Q[m³/h]

CL 4 poles - Dimensions



CL 4 poles DN32F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979525263	CL 32-80/4/0.25K	340	170	170	102	299	410	32	87	444	220	119	125	130	M12x20	16	32,5
979525264	CL 32-100/4/0.37K	340	170	170	102	299	410	32	87	444	220	119	125	130	M12x20	16	32,5

CL 4 poles DN40F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979526541	CL 40-65/4/0.37S	300	160	140	92	/	395	40	109	467	222	/	/	/	/	10	35,0
979526542	CL 40-90/4/0.55S	340	160	180	100	/	531	40	103	503	243	/	/	/	/	10	40,0
979525265	CL 40-110/4/0.75K	440	220	220	144	360	471	40	106	500	237	164	164	142	M12x35	16	66,5
979525266	CL 40-140/4/1.1K	440	220	220	133	379	482	40	106	518	255	164	164	142	M12x35	16	72,0

CL 4 poles DN50F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979526543	CL 50-50/4/0.37S	360	200	160	/	/	/	50	133	492	222	/	/	/	/	10	41,0
979526544	CL 50-65/4/0.55S	360	200	160	100	279	412	50	133	533	243	/	/	/	/	10	44,0
979526545	CL 50-70/4/0.55S	340	180	160	/	/	/	50	138	538	244	/	/	/	/	10	45,0
979527077	CL 50-75/4/0.55K	340	170	170	94	308	411	50	100	599	237	138	120	130	M12x35	16	42,2
979526546	CL 50-85/4/0.75S	340	180	160	/	/	/	50	138	538	244	/	/	/	/	10	45,0
979527078	CL 50-90/4/0.75K	340	170	170	94	308	411	50	100	499	237	138	120	130	M12x35	16	51,7
979526483	CL 50-110/4/0.75K	340	170	170	94	308	411	50	100	499	237	138	120	130	M12x35	16	52,0
979526484	CL 50-110/4/1.1K	340	170	170	83	327	430	50	100	517	255	138	120	130	M12x35	16	56,9
979525270	CL 50-120/4/1.1K	440	220	220	133	377	480	50	118	533	255	163	163	142	M12x35	16	74,5
979525271	CL 50-140/4/1.5K	440	220	220	133	377	480	50	118	558	280	163	163	142	M12x35	16	80,0
979525267	CL 50-190/4/2.2K	440	220	220	124	389	492	50	90	628	316	179	163	142	M12x35	16	95,0
979525268	CL 50-230/4/3.0K	440	220	220	124	389	492	50	90	670	358	179	163	142	M12x35	16	100,5

CL 4 poles DN65F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979526485	CL 65-50/4/0.55K	360	180	180	104	337	440	65	107	516	237	143	124	142	M12x35	16	48,0
979526548	CL 65-50/4/0.55S	340	180	160	/	/	/	65	163	563	244	/	/	/	/	10	47,0
979526549	CL 65-60/4/0.75S	340	180	160	/	/	/	65	163	563	244	/	/	/	/	10	49,0
979526486	CL 65-70/4/0.75K	360	180	180	104	318	421	65	107	516	237	143	124	142	M12x35	16	58,5
979526487	CL 65-90/4/0.75K	360	180	180	104	318	421	65	107	516	237	143	124	142	M12x35	16	58,6
979526488	CL 65-90/4/1.1K	360	180	180	93	318	421	65	107	534	255	143	124	142	M12x35	16	63,3
979526552	CL 65-105/4/1.5S	380	200	180	/	/	/	65	143	566	267	/	/	/	/	10	61,0
979525272	CL 65-110/4/1.1K	475	238	238	151	394	497	65	122	546	255	177	163	142	M12x35	16	73,5
979525273	CL 65-130/4/1.5K	475	238	238	151	394	497	65	122	571	280	177	163	142	M12x35	16	78,0
979525274	CL 65-150/4/2.2K	475	238	238	142	404	507	65	122	635	316	177	163	142	M12x35	16	92,5
979525275	CL 65-170/4/3.0K	475	238	238	142	405	508	65	122	677	358	177	163	142	M12x35	16	92,5
979526553	CL 65-180/4/3.0S	475	250	225	/	/	/	65	132	603	292	/	/	/	/	10	81,0
979527389	CL 65-220/4/3.0S	475	250	225	/	/	/	65	132	603	292	/	/	/	/	10	80,0
979527390	CL 65-220/4/4.0S	475	250	225	/	/	/	65	132	647	336	/	/	/	/	10	90,0
979525276	CL 65-240/4/4.0K	475	238	238	129	429	539	65	122	653	334	177	163	142	M12x35	16	106,0

CL 4 poles DN80F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979526554	CL 80-45/4/0.55S	400	180	200	/	/	/	80	172	572	244	/	/	/	/	10	55,0
979526555	CL 80-60/4/0.75S	400	180	200	/	/	/	80	172	572	244	/	/	/	/	10	57,0
979525277	CL 80-70/4/1.1K	440	220	220	133	377	480	80	111	541	255	171	141	170	M12x35	16	70,2
979526467	CL 80-70/4/1.5K	440	220	220	133	377	480	80	111	566	280	171	141	170	M12x35	16	75,4
979525278	CL 80-90/4/1.5K	440	220	220	133	377	480	80	111	566	280	171	141	170	M12x35	16	75,5
979526468	CL 80-90/4/2.2K	440	220	220	124	387	490	80	111	630	316	171	141	170	M12x35	16	90,4
979525279	CL 80-110/4/2.2K	440	220	220	124	387	490	80	111	630	316	171	141	170	M12x35	16	90,5
979526556	CL 80-115/4/2.2S	475	250	225	/	/	/	80	152	623	292	/	/	/	/	10	77,0
979525286	CL 80-150/4/3.0K	500	250	250	155	419	522	80	113	680	358	182	164	160	M12x25	16	110,0
979525287	CL 80-170/4/4.0K	500	250	250	142	442	552	80	113	656	334	182	164	160	M12x25	16	111,5
979526557	CL 80-205/4/5.5S	595	315	280	/	/	/	80	194	805	396	/	/	/	/	10	153,0
979526558	CL 80-260/4/7.5S	595	315	280	/	/	/	80	194	805	396	/	/	/	/	10	166,0
979526559	CL 80-330/4/11.0S	560	280	280	/	/	/	80	194	905	466	/	/	/	/	10	220,0
979526560	CL 80-360/4/15.0S	560	280	280	/	/	/	80	194	905	466	/	/	/	/	10	248,0

CL 4 poles DN100F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979525280	CL 100-70/4/1.5K	550	275	275	188	432	535	100	141	596	280	197	143	220	M12x25	16	87,0
979525281	CL 100-90/4/2.2K	550	275	275	179	442	545	100	141	660	316	197	143	220	M12x25	16	102,5
979526494	CL 100-110/4/2.2K	550	275	275	179	442	545	100	141	660	280	197	143	220	M12x25	16	103,5
979525282	CL 100-110/4/3.0K	550	275	275	179	442	545	100	141	702	358	197	143	220	M12x25	16	107,5
979525288	CL 100-130/4/4.0K	550	275	275	167	466	/	100	147	693	334	169	196	240	M12x25	16	124,0
979526561	CL 100-130/4/4.0S	550	300	250	/	/	/	100	202	727	336	/	/	/	/	10	100,0
979526562	CL 100-145/4/4.0S	580	300	280	/	/	/	100	204	729	336	/	/	/	/	10	108,0
979525289	CL 100-170/4/5.5K	550	275	275	143	495	/	100	147	769	372	169	196	240	M12x25	16	143,0
979526563	CL 100-175/4/5.5S	580	300	280	/	/	/	100	204	814	396	/	/	/	/	10	130,0
979526564	CL 100-220/4/7.5S	580	300	280	/	/	/	100	204	814	396	/	/	/	/	10	134,0
979526565	CL 100-250/4/11.0S	580	300	280	/	/	/	100	204	914	466	/	/	/	/	10	189,0

CL 4 poles DN125F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979529928	CL 125-80/4/2.2S	600	275	325	/	/	/	125	239	774	346	/	/	/	/	10	110,0
979529929	CL 125-100/4/4.0S	560	280	280	/	/	/	125	220	769	336	/	/	/	/	10	243,0
979526566	CL 125-150/4/5.5S	630	315	315	/	/	/	125	219	854	396	/	/	/	/	10	158,0
979526567	CL 125-180/4/7.5S	630	315	315	/	/	/	125	219	854	396	/	/	/	/	10	180,0
979526568	CL 125-225/4/11.0S	630	355	355	/	/	/	125	199	835	396	/	/	/	/	10	241,0
979526569	CL 125-285/4/15.0S	710	355	355	/	/	/	125	199	835	396	/	/	/	/	10	273,0

CL 4 poles DN150F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979526570	CL 150-140/4/11.0S	710	355	355	/	/	/	150	218	974	466	/	/	/	/	10	267,0
979526501	CL 150-180/4/15.0S	710	355	355	/	/	/	150	218	974	466	/	/	/	/	10	276,0
979526571	CL 150-210/4/15.0S	710	355	355	/	/	/	150	225	1006	466	/	/	/	/	10	317,0
979529930	CL 150-220/4/22.0S	710	355	355	/	/	/	150	223	1032	519	/	/	/	/	10	340,0
979526572	CL 150-250/4/18.5S	710	355	355	/	/	/	150	225	1059	519	/	/	/	/	10	344,0
979526573	CL 150-275/4/22.0S	710	355	355	/	/	/	150	225	1059	519	/	/	/	/	10	346,0
979529931	CL 150-330/4/30.0S	755	400	355	/	/	/	150	224	1083	555	/	/	/	/	10	474,0

CL 4 poles DN200F

Code	Type	H	h1	h2	h3	HCL	HECL	DN	a	L	l1	b1	b2	z	v	PN	kg
979529932	CL 200-130/4/11.0S	850	450	400	/	/	/	200	263	1053	466	/	/	/	/	10	348,0
979529933	CL 200-170/4/15.0S	850	450	400	/	/	/	200	263	1053	466	/	/	/	/	10	372,0
979529934	CL 200-170/4/18.5S	850	450	400	/	/	/	200	263	1106	519	/	/	/	/	10	410,0
979529935	CL 200-250/4/22.0S	850	450	400	/	/	/	200	243	1118	519	/	/	/	/	10	480,0
979529936	CL 200-250/4/30.0S	850	450	400	/	/	/	200	243	1154	555	/	/	/	/	10	542,0

CLD 2 poles - Q/H performance

CLD 2 poles DN40F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					6	9	12	13,5	15	18	21	24	27	30	36	42	48	54
979523539	CLD 40-140/2/0.75A	0,75	1,6	H [m]	12,5	10,5	8,1	6,8	5,2									
979525098	CLD 40-170/2/0.75A	0,75	1,6		16,5	14,5	12,3	11	9,5	6								
979525099	CLD 40-220/2/1.1A	1,1	2,5		20,5	19	17	16	15	11,5	7,5							
979525100	CLD 40-250/2/1.5A	1,5	3,4		24,5	23,5	22	21	20	16,5	13							

CLD 2 poles DN50F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					9	12	13,5	15	18	21	24	27	30	36	42	48	54	60
979524015	CLD 50-170/2/1.5A	1,5	3,4	H [m]				15,5	15	14,1	13	11,8	10,5	7				
979525101	CLD 50-200/2/2.2A	2,2	4,6					19	18,5	17,5	16,5	15,5	14,5	10,5				
979524572	CLD 50-250/2/3.0A	3,0	5,6					24,5	24	23,5	23	22	20,5	17				
979525102	CLD 50-310/2/3.0/A	3,0	5,6					30	29	28	26,5	25	23	18				
979525103	CLD 50-370/2/4.0A	4,0	8,2					36,5	35,5	34,5	33,5	32,5	31	27				

CLD 2 poles DN65F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					13,5	15	18	21	24	27	30	36	42	48	54	60	75	90
979523448	CLD 65-240/2/3.0A	3,0	5,6	H [m]				23	22,5	22	21,5	19,8	17,5	15				
979524016	CLD 65-270/2/4.0A	4,0	8,2						26,5	26	25,5	24,3	22,6	20,2	18			
979525104	CLD 65-330/2/5.5A	5,5	10,2						32,5	32	31,5	30,5	29,5	28	26	23,5		
979525105	CLD 65-370/2/7.5A	7,5	14,4						37	36,5	36	35	34	32,5	31	29		

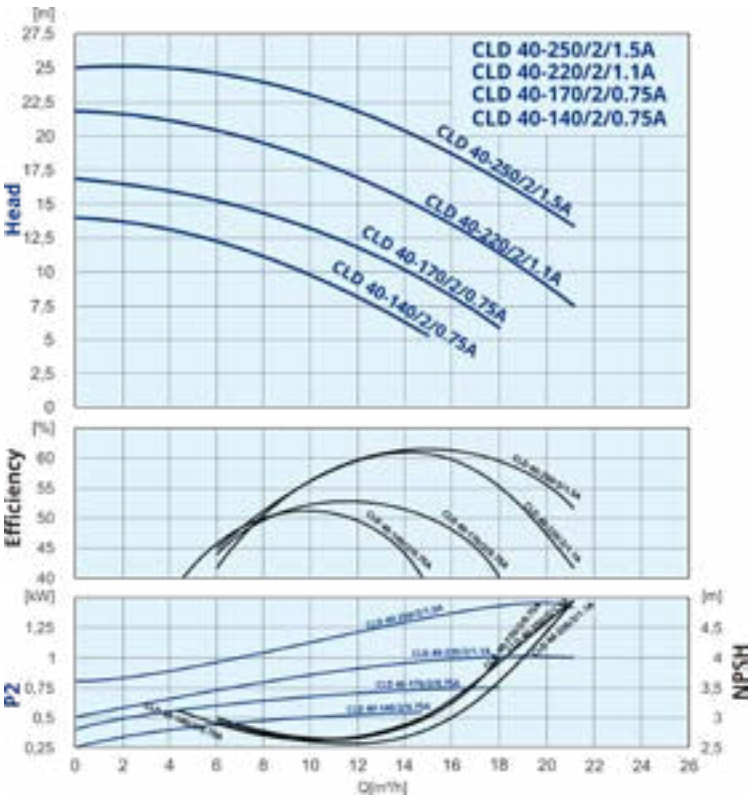
CLD 2 poles DN80F

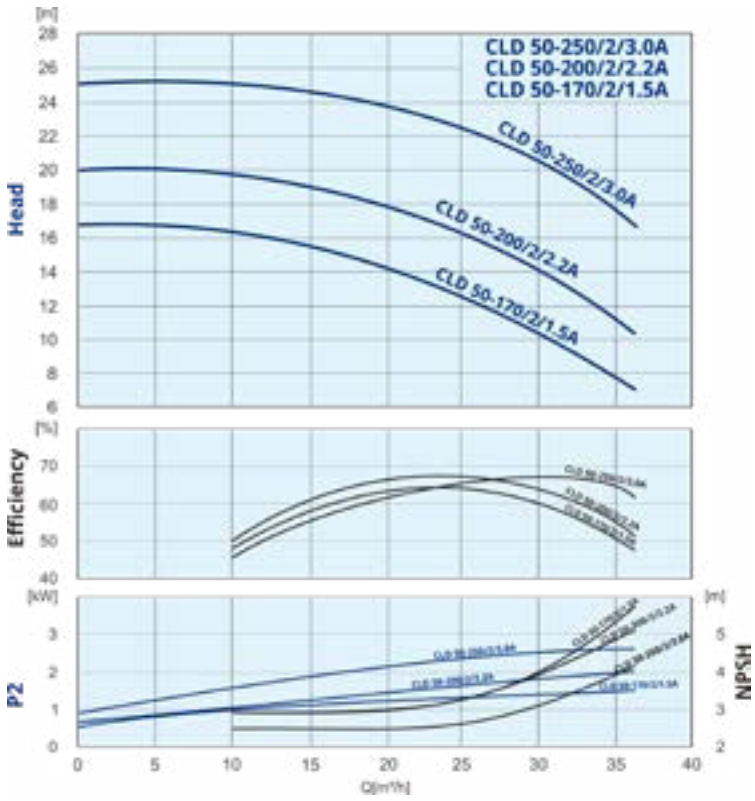
Code	Type	P [kW]	I [A]		Q [m³/h]													
					30	36	42	48	54	60	75	90	105	120	135	150	165	180
979523476	CLD 80-260/2/7.5A	7,5	14,4	H [m]			25,3	24,9	24,1	23,4	20,5	17	12,7					
979523821	CLD 80-310/2/11.0A	11,0	2,5				30,5	30	29,5	29	26,5	24	20,5	16				
979525106	CLD 80-370/2/15.0A	15,0	26,8				36,5	36	35,5	34,5	33	30	27	23	19			
979523728	CLD 80-420/2/15.0A	15,0	26,8				41	40,5	40	39,5	38	35,5	33	29	24			

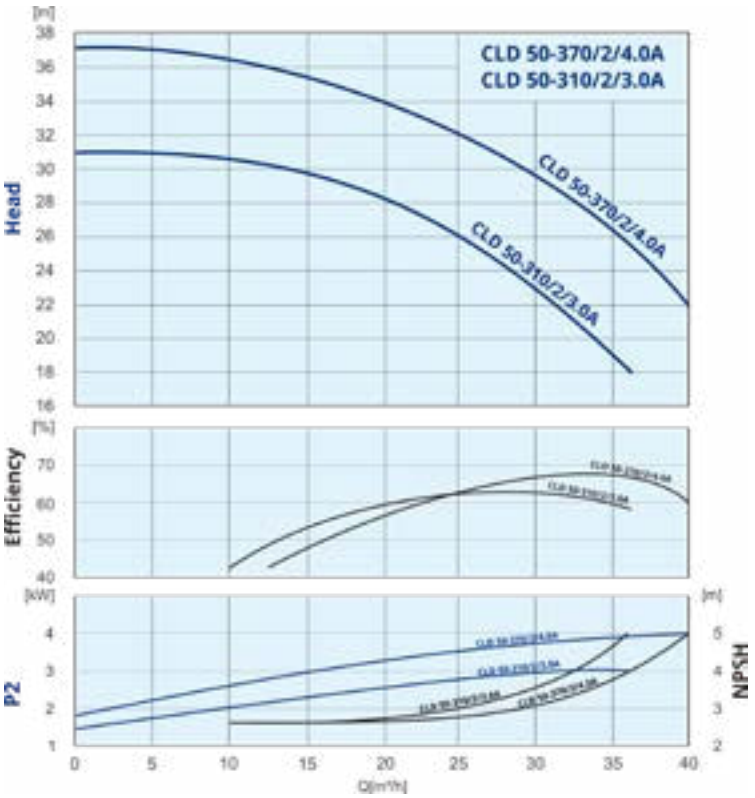
CLD 2 poles DN100F

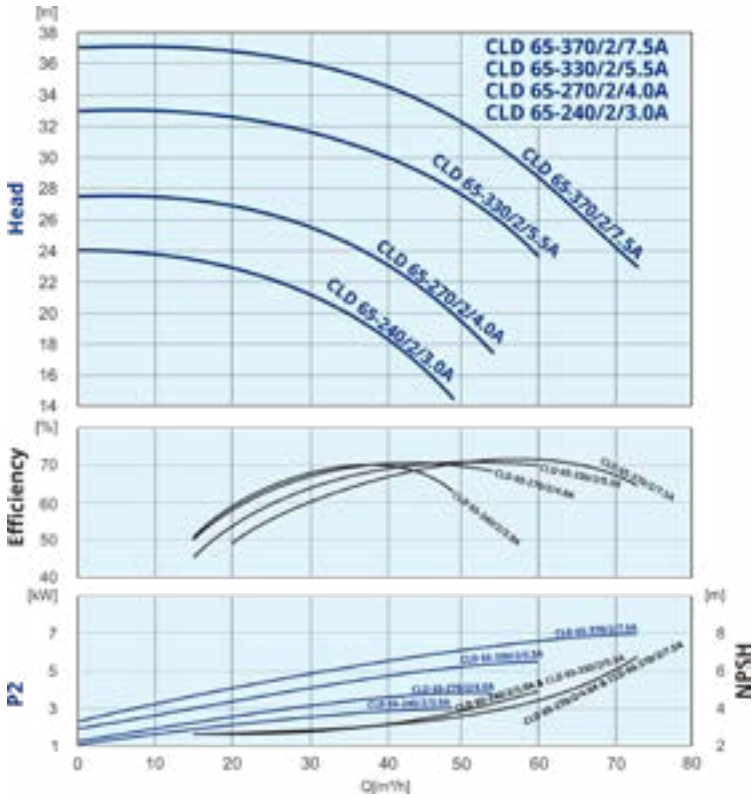
Code	Type	P [kW]	I [A]		Q [m³/h]													
					54	60	75	90	105	120	135	150	165	180	195	210	225	240
979523704	CLD 100-255/2/11.0A	11,0	19,9	H [m]		33	32,3	31	29	27	24,5	22	19					
979525109	CLD 100-285/2/15.0A	15,0	26,8				37,5	36,5	35	33	31	28,5	26					
979525110	CLD 100-290/2/15.0A	15,0	26,8			24,5	23,5	22	20,5	18,5	16	13,5	10,5	7	3			
979525111	CLD 100-315/2/15.0A	15,0	26,8			27,5	26,5	25,5	24	22	20	17,5	15	12	8,6	5		
979525107	CLD 100-340/2/15.0A	15,0	26,8				28	27	25,5	23,5	21,5	19	16,5	13,8	10,8	7,5	3	
979525108	CLD 100-390/2/15.0A	15,0	26,8					29	28	26	24,5	22	20	17,5	14	11,3	7,5	3,5

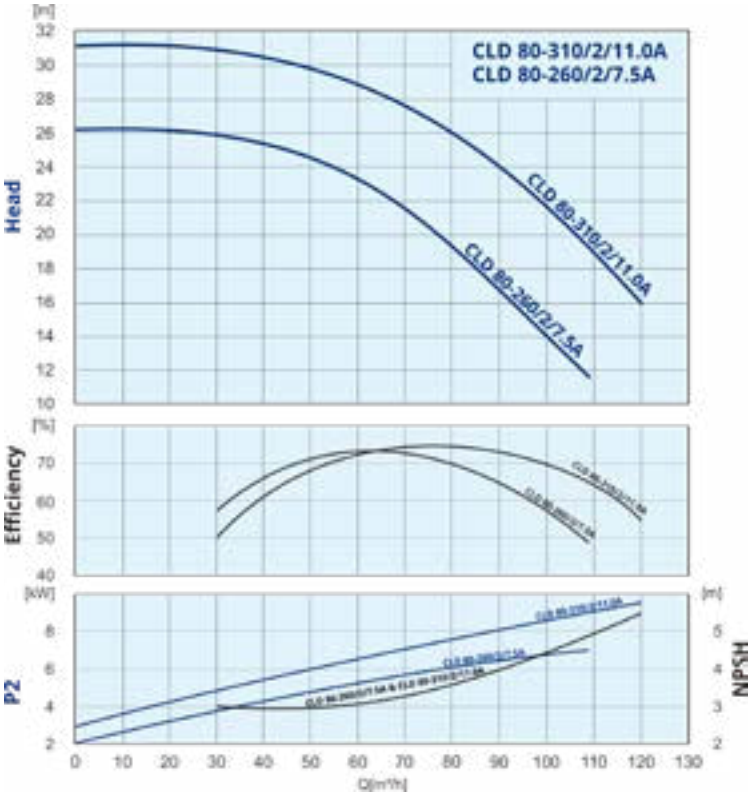
CLD 2 poles - Performance curves

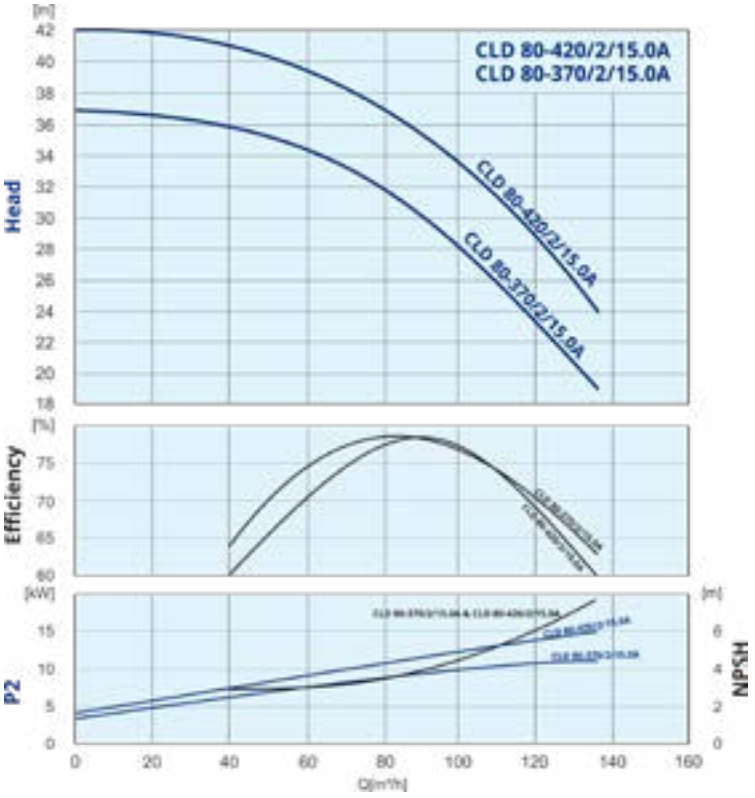


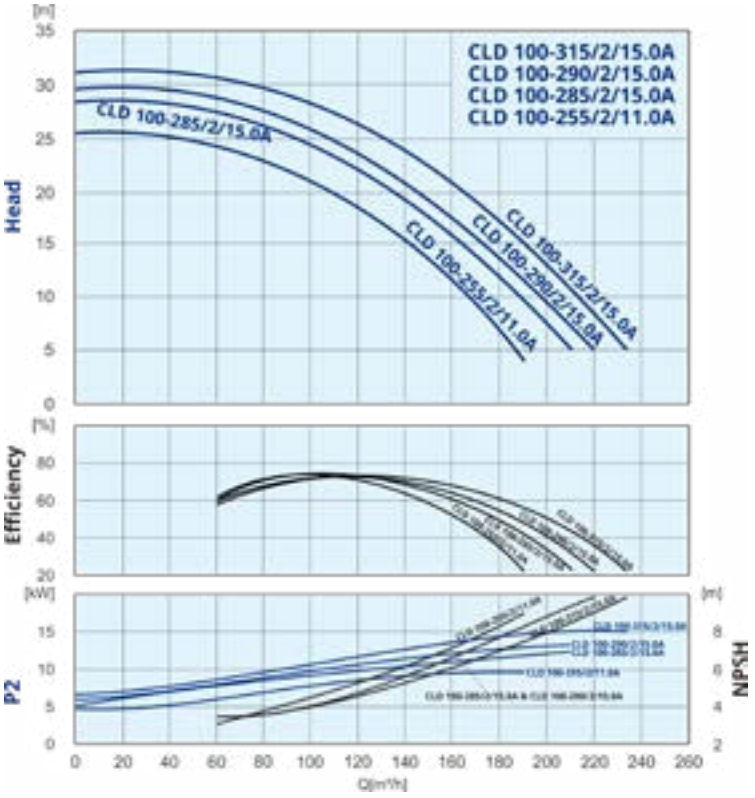


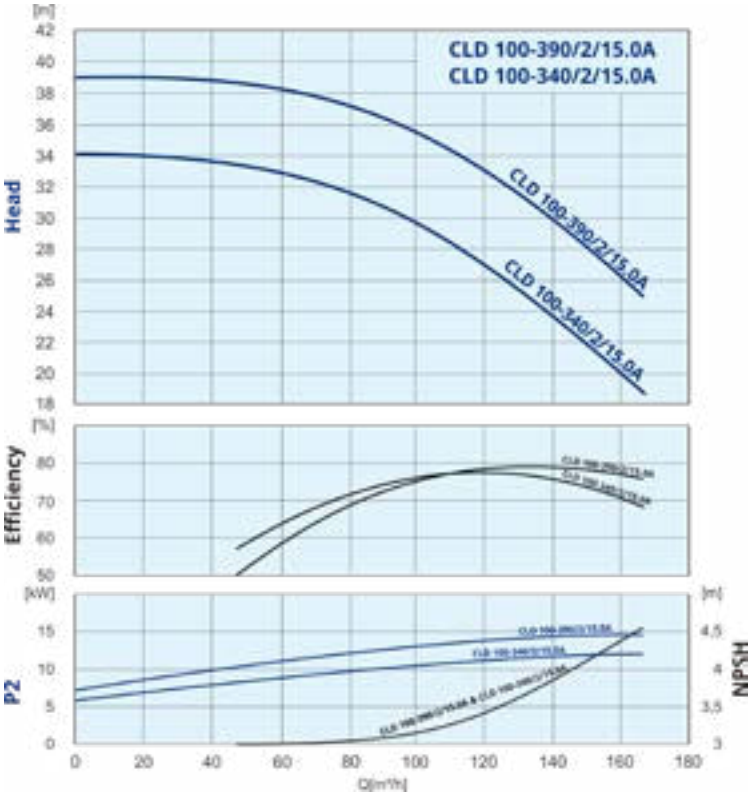




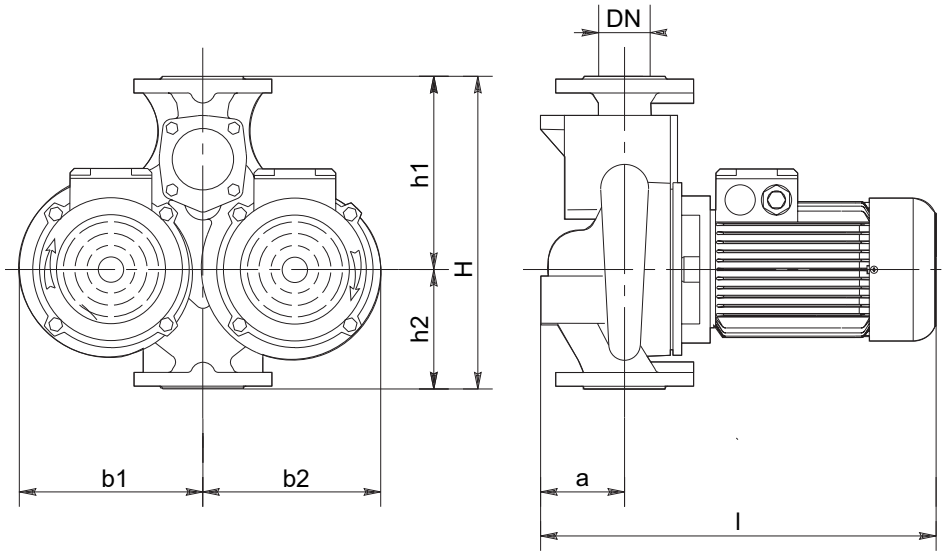

CLD 80-310/2/11.0A
CLD 80-260/2/7.5A
Head
Efficiency
P2
NPSH
Q[m³/h]


CLD 80-420/2/15.0A
CLD 80-370/2/15.0A
Head
Efficiency
P2
NPSH
Q[m³/h]


CLD 100-315/2/15.0A
CLD 100-290/2/15.0A
CLD 100-285/2/15.0A
CLD 100-255/2/11.0A
Head
Efficiency
P2
NPSH
Q[m³/h]


CLD 100-390/2/15.0A
CLD 100-340/2/15.0A
Head
Efficiency
P2
NPSH
Q[m³/h]

CLD 2 poles - Dimensions



CLD 2 poles DN40F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979523539	CLD 40-140/2/0.75A	340	210	130	40	100	425	200	197	16	55,0
979525098	CLD 40-170/2/0.75A	340	210	130	40	100	425	200	197	16	56,0
979525099	CLD 40-220/2/1.1A	340	210	130	40	100	445	200	197	16	55,0
979525100	CLD 40-250/2/1.5A	340	210	130	40	100	445	200	197	16	59,0

CLD 2 poles DN50F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979524015	CLD 50-170/2/1.5A	365	220	145	50	110	455	217	210	16	61,0
979525101	CLD 50-200/2/2.2A	365	220	145	50	110	495	217	210	16	64,0
979524572	CLD 50-250/2/3.0A	365	220	145	50	110	495	217	210	16	80,0
979525102	CLD 50-310/2/3.0A	410	240	170	50	110	495	245	235	16	78,0
979525103	CLD 50-370/2/4.0A	410	240	170	50	110	535	245	235	16	86,0

CLD 2 poles DN65F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979523448	CLD 65-240/2/3.0A	450	270	180	65	130	515	275	268	16	91,0
979524016	CLD 65-270/2/4.0A	450	270	180	65	130	565	275	268	16	101,0
979525104	CLD 65-330/2/5.5A	450	270	180	65	130	565	275	268	16	112,0
979525105	CLD 65-370/2/7.5A	450	270	180	65	130	670	275	268	16	118,0

CLD 2 poles DN80F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979523476	CLD 80-260/2/7.5A	510	305	205	80	150	690	280	270	16	141,0
979523821	CLD 80-310/2/11.0A	510	305	205	80	150	690	280	270	16	184,5
979525106	CLD 80-370/2/15.0A	510	305	205	80	150	690	280	270	16	193,0
979523728	CLD 80-420/2/15.0A	510	305	205	80	150	640	280	270	16	189,0

CLD 2 poles DN100F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979523704	CLD 100-255/2/11.0A	630	390	240	100	180	720	325	345	16	226,0
979525109	CLD 100-285/2/15.0A	630	390	240	100	180	720	325	345	16	232,0
979525110	CLD 100-290/2/15.0A	630	390	240	100	180	720	325	345	16	232,0
979525111	CLD 100-315/2/15.0A	630	390	240	100	180	720	325	345	16	232,0
979525107	CLD 100-340/2/15.0A	630	390	240	100	180	720	325	345	16	232,0
979525108	CLD 100-390/2/15.0A	630	390	240	100	180	720	325	345	16	232,0

CLD 4 poles - Q/H performance

CLD 4 poles DN40F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					1,8	2,4	3	4,5	6	7,5	9	10,5	12	13,5	15	18	21	24
979525138	CLD 40-40/4/0.25A	0,25	0,9	H [m]	3,8	3,7	3,6	3,15	2,6	1,9								
979525139	CLD 40-50/4/0.25A	0,25	0,9			4,6	4,5	4,1	3,6	3,0	2,2							
979525140	CLD 40-65/4/0.25A	0,25	0,9				6,2	6,0	5,8	5,2	4,5	3,9	3,0					

CLD 4 poles DN50F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					3	4,5	6	7,5	9	10,5	12	13,5	15	18	21	24	27	30
979525141	CLD 50-50/4/0.25A	0,25	0,9	H [m]			4,6	4,5	4,3	4,1	3,9	3,6	3,3	2,4				
979525142	CLD 50-65/4/0.37A	0,37	1,2				6,3	6,2	6,1	6,0	5,8	5,5	5,2	4,6	3,0			
979525143	CLD 50-90/4/0.55A	0,55	1,6				8,8	8,6	8,3	8,0	7,7	7,3	6,9	5,9	4,5			

CLD 4 poles DN65F

Code	Type	P [kW]	I [A]		Q [m³/h]													
					9	10,5	12	13,5	15	18	21	24	27	30	36	42	48	54
979525144	CLD 65-70/4/0.75A	0,75	1,9	H [m]			6,7	6,6	6,4	6,1	5,7	5,1	4,3	3,3				
979525145	CLD 65-80/4/0.75A	0,75	1,9				8,2	8,0	7,9	7,7	7,4	7,0	6,6	6,0	4,0			
979523513	CLD 65-90/4/1.1A	1,1	3,5				9,0	8,9	8,8	8,6	8,4	8,1	7,7	7,2	5,5			

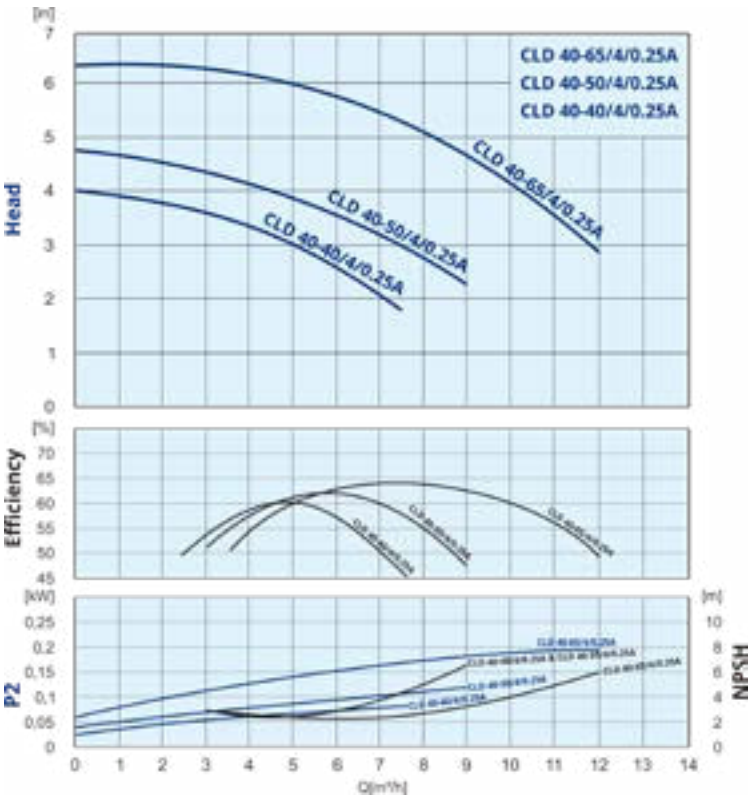
CLD 4 poles DN80F

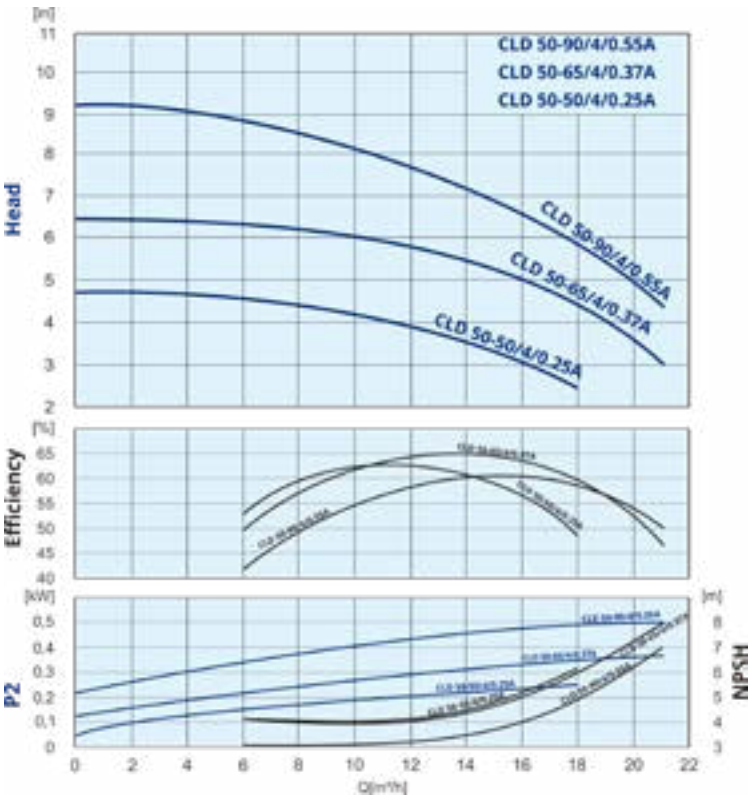
Code	Type	P [kW]	I [A]		Q [m³/h]													
					13,5	15	18	21	24	27	30	36	42	48	54	60	66	72
979525146	CLD 80-65/4/0.75A	0,75	1,9	H [m]			6,3	6,2	6,1	5,9	5,6	4,9	4,1	3,2				
979525147	CLD 80-75/4/1.1A	1,1	3,5				7,3	7,2	7,1	7,0	6,8	6,3	5,6	4,8	3,9			
979525148	CLD 80-85/4/1.1A	1,1	3,5				8,6	8,5	8,4	8,3	8,2	8,0	7,5	6,8	6,0	5,0		
979523511	CLD 80-105/4/1.5A	1,5	3,4				10,2	10,1	10,0	9,9	9,8	9,4	9,0	8,5	7,7	6,5		

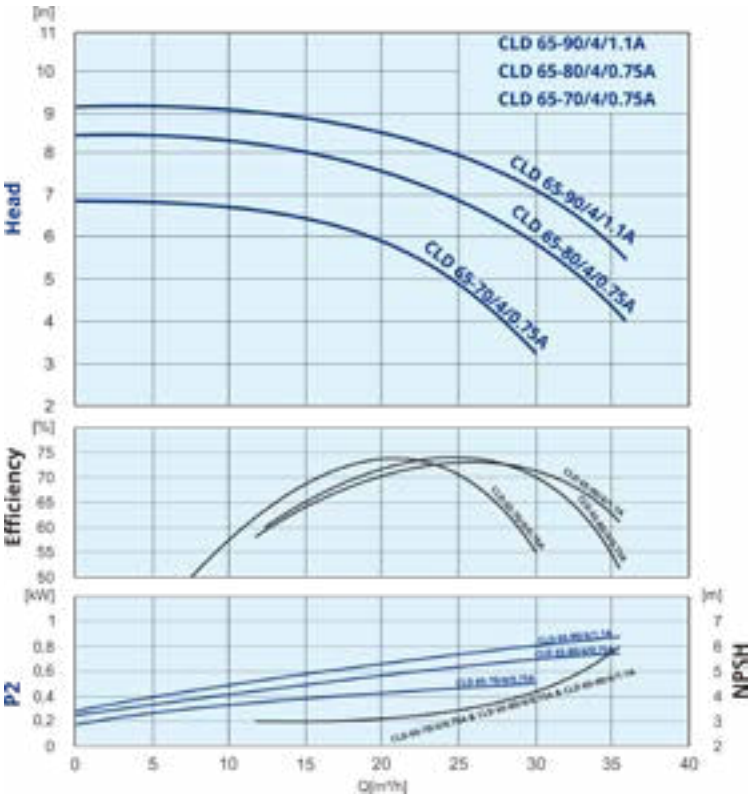
CLD 4 poles DN100F

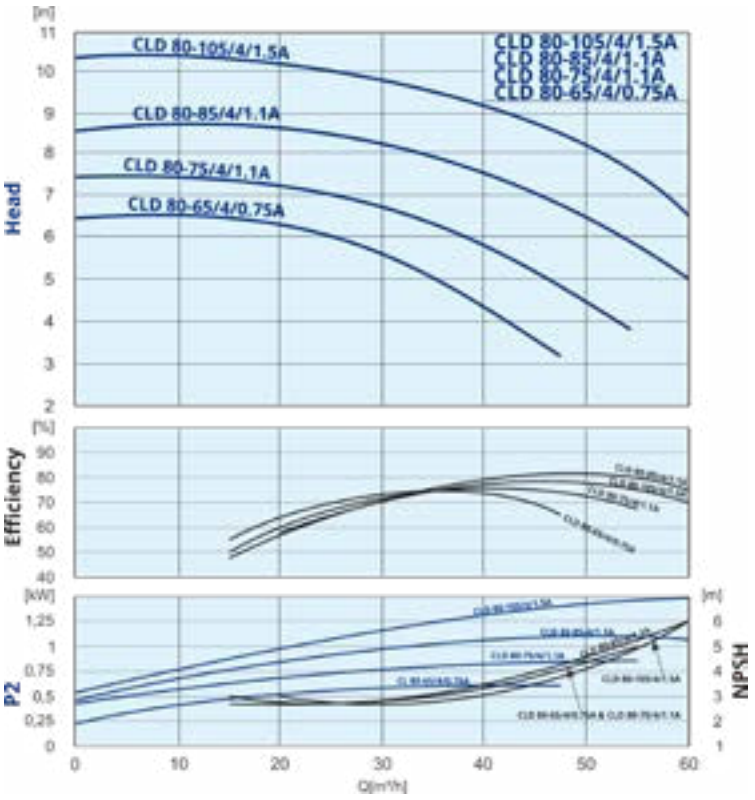
Code	Type	P [kW]	I [A]		Q [m³/h]													
					24	27	30	36	42	48	54	60	66	72	78	90	105	120
979523621	CLD 100-85/4/1.5A	1,5	3,4	H [m]			8,2	7,8	7,4	7,0	6,5	6,0	5,3	4,6	4,0			
979525149	CLD 100-105/4/2.2A	2,2	4,8					10,0	9,7	9,3	8,9	8,5	8,0	7,5	7,0	6,0		
979525150	CLD 100-125/4/3.0A	3,0	6,8					12,0	11,7	11,5	11,3	11,0	10,5	10,0	9,5	8,5	7,0	
979525151	CLD 100-150/4/4.0A	4,0	8,2					14,5	14,2	14,0	13,8	13,5	13,1	12,7	12,2	11,0	9,0	6,5

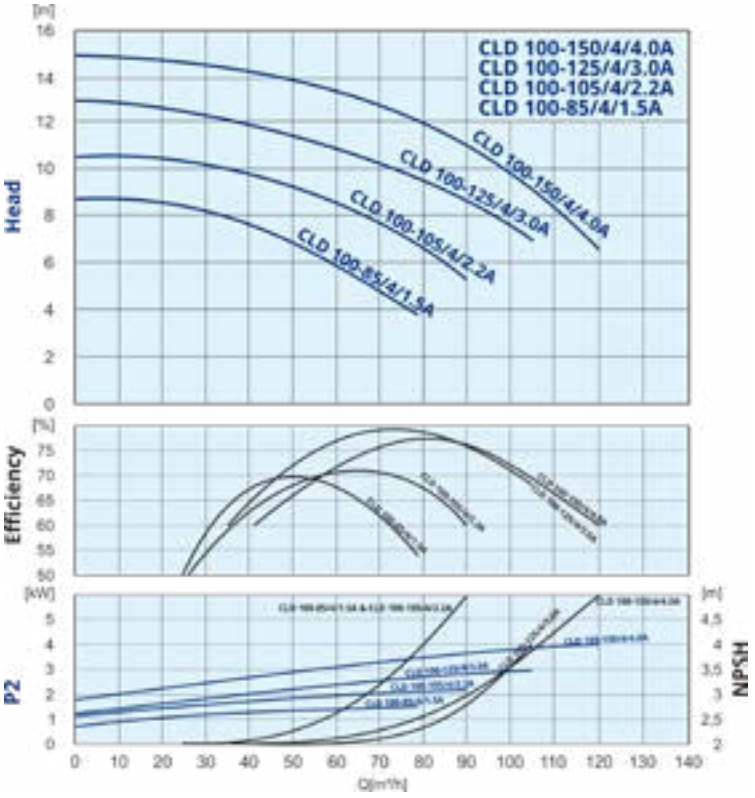
CLD 4 poles - Performance curves



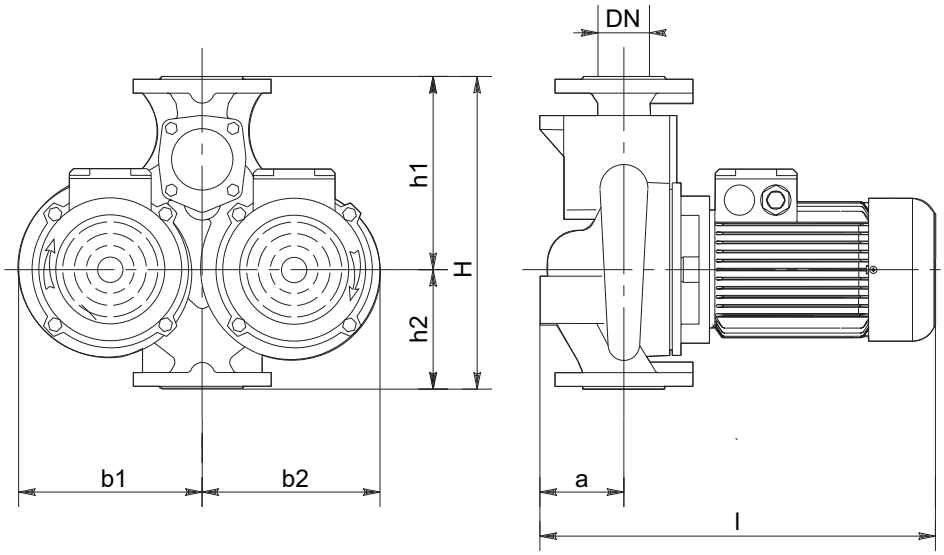







CLD 100-150/4/4.0A
CLD 100-125/4/3.0A
CLD 100-105/4/2.2A
CLD 100-85/4/1.5A
Head
[m]
Efficiency
[%]
P2
[kW]
NPSH
[m]
Q[m³/h]

CLD 4 poles - Dimensions



CLD 4 poles DN40F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979525138	CLD 40-40/4/0.25A	340	210	130	40	100	430	200	197	10	44,0
979525139	CLD 40-50/4/0.25A	340	210	130	40	100	430	200	197	10	44,0
979525140	CLD 40-65/4/0.25A	340	210	130	40	100	430	200	197	10	44,0

CLD 4 poles DN50F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979525141	CLD 50-50/4/0.25A	365	220	145	50	110	440	200	197	10	47,0
979525142	CLD 50-65/4/0.37A	365	220	145	50	110	440	200	197	10	46,0
979525143	CLD 50-90/4/0.55A	410	240	170	50	110	440	245	235	10	46,0

CLD 4 poles DN65F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979525144	CLD 65-70/4/0.75A	450	270	180	65	130	460	275	268	10	66,0
979525145	CLD 65-80/4/0.75A	450	270	180	65	130	476	275	268	10	68,0
979523513	CLD 65-90/4/1.1A	450	270	180	65	130	511	275	268	10	79,0

CLD 4 poles DN80F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979525146	CLD 80-65/4/0.75A	510	305	205	80	150	496	280	270	10	75,0
979525147	CLD 80-75/4/1.1A	510	305	205	80	150	531	280	270	10	86,0
979525148	CLD 80-85/4/1.1A	510	305	205	80	150	531	280	270	10	86,0
979523511	CLD 80-105/4/1.5A	510	305	205	80	150	531	280	270	10	86,0

CLD 4 poles DN100F

Code	Type	H	h1	h2	DN	a	l	b1	b2	PN	kg
979523621	CLD 100-85/4/1.5A	630	390	240	100	180	573	325	345	10	133,0
979525149	CLD 100-105/4/2.2A	630	390	240	100	180	612	325	345	10	143,0
979525150	CLD 100-125/4/3.0A	630	390	240	100	180	646	325	345	10	154,0
979525151	CLD 100-150/4/4.0A	630	390	240	100	180	634	325	345	10	185,5

ECL(D) - version with frequency converter

Advantages:
- Energy saving
- Compact design
- Easy to use
- Programable to suit the system requrements
- Reliability

Construction:
- In-line Pump
- Frequency converter:
  - integrated Nastec
  - separated Danfoss

Main features
- Protecion against dry running
- Protection against overcurrent in the motor
- Protection against overvoltage and undervoltage of the power supply
- Protection against current unbalances between phases

All ECL(D) pumps are based on CL(D) pumps, so all technical data from CL(D) pumps is also valid for ECL(D) pumps. Because of that we will not duplicate the data but we will explain to you different options of regulation with frequency converters.

Operational options

Constant pressure
In this mode, the system maintains the preset pressure when the flow required by the installation changes.

Constant speed
with setting of the speed preferential rotation.
In this mode, by changing the working frequency, you may choose any operational curve included within the working range.

Integrated frequency converter

Integrated frequency converter Nastec Mida 2xTT
0,25-22,0kW; with Modbus, BACnet & 2x pressure sensor
Example: ECL(D) 40-240/2/2.2/I-N-2xTT



Display for performance and error readings



Remote access via mobile application



NASTEC MIDA (NEW)	DANFOSS FCP 106 (OLD)
2 sizes	3 sizes
0,25 – 22,0 kW	0,25 – 7,5 kW
2x digital outputs: - motor operation - error signal	2x programmable digital outputs: 1x analog output 0/4 – 20 mA
4x digital inputs	4x digital inputs
4x analog inputs: - 2x 4 – 20 mA - 2x 0 – 10 V	2x analog inputs
Modbus, BACnet	Modbus

Separated frequency converter

Separated frequency converter Danfoss 2xTT

0,25-45,0kW; with Modbus & 2x pressure sensor

Example: ECL(D) 40-240/2/2.2/L-D-2xTT





OPTIONAL:
Control panel LCP 31
(code: 5551490)



ECL 2 poles

ECL 2 poles DN 40F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 40-175/2/1.5S/...	979529183	979527393
ECL 40-240/2/2.2K/...	979529184	979526716
ECL 40-300/2/3.0K/...	979529185	979526718
ECL 40-360/2/4.0K/...	979529186	979526717
ECL 40-430/2/4.0K/...	979529187	979527397
ECL 40-430/2/5.5K/...	979529188	979526719
ECL 40-530/2/5.5K/...	979529189	979527401
ECL 40-530/2/7.5K/...	979529190	979526720
ECL 40-630/2/7.5K/...	979529191	979527405
ECL 40-630/2/11.0K/...	979529192	979526721
ECL 40-835/2/11.0S/...	979529193	979527407

ECL 2 poles DN50F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 50-160/2/1.1K/...	979529194	979526724
ECL 50-190/2/1.5K/...	979529195	979526725
ECL 50-240/2/2.2K/...	979529196	979526726
ECL 50-290/2/3.0K/...	979529197	979526727
ECL 50-360/2/4.0K/...	979529198	979526729
ECL 50-420/2/5.5K/...	979529199	979527411
ECL 50-420/2/7.5K/...	979529200	979526730
ECL 50-430/2/5.5K/...	979529201	979526731
ECL 50-540/2/7.5K/...	979529202	979527415
ECL 50-540/2/11.0K/...	979529203	979526732
ECL 50-630/2/11.0K/...	979529204	979527417
ECL 50-630/2/15.0K/...	979529205	979526734
ECL 50-690/2/11.0S/...	979529206	979527419
ECL 50-690/2/15.0S/...	979529207	979527421
ECL 50-710/2/11.0K/...	979529208	979527423
ECL 50-710/2/15.0K/...	979529209	979527425
ECL 50-830/2/15.0K/...	979529210	979527427
ECL 50-830/2/18.5K/...	979529211	979527429
ECL 50-900/2/18.5K/...	979529212	979527431
ECL 50-900/2/22.0K/...	979529213	979527433

ECL 2 poles DN65F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 65-170/2/2.2K/...	979529214	979526736
ECL 65-210/2/3.0K/...	979529215	979526737
ECL 65-250/2/4.0K/...	979529216	979526738
ECL 65-340/2/5.5K/...	979529217	979526739
ECL 65-410/2/7.5K/...	979529218	979526740
ECL 65-460/2/11.0K/...	979529219	979526741
ECL 65-550/2/15.0K/...	979529220	979526743
ECL 65-660/2/18.5K/...	979529221	979526744
ECL 65-720/2/18.5K/...	979529222	979527435
ECL 65-720/2/22.0K/...	979529223	979526746
ECL 65-930/2/22.0K/...	979529224	979527437
ECL 65-930/2/30.0K/...	979529225	979526748

ECL 2 poles DN80F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 80-180/2/3.0K/...	979529226	979526750
ECL 80-210/2/4.0K/...	979529227	979526751
ECL 80-240/2/5.5K/...	979529228	979526752
ECL 80-250/2/7.5K/...	979529229	979526753
ECL 80-330/2/11.0K/...	979529230	979526754
ECL 80-400/2/15.0K/...	979529231	979526755
ECL 80-520/2/18.5K/...	979529232	979527439
ECL 80-570/2/22.0K/...	979529233	979526757
ECL 80-700/2/22.0K/...	979529234	979527443
ECL 80-700/2/30.0K/...	979529235	979526758

ECL 2 poles DN100F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 100-270/2/11.0S/...	979529236	979527445
ECL 100-340/2/15.0S/...	979529237	979527447
ECL 100-380/2/18.5S/...	979529238	979527325
ECL 100-430/2/18.5S/...	979529239	979527449
ECL 100-430/2/22.0S/...	979529240	979527451
ECL 100-460/2/22.0S/...	979529241	979527453
ECL 100-520/2/30.0S/...	979529242	979527455
ECL 100-590/2/37.0S/...	979529243	979527457
ECL 100-740/2/45.0S/...	979529244	979527459

ECL 2 poles DN125F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 125-210/2/15.0S/...	979529937	979529957
ECL 125-300/2/18.5S/...	979529938	979529958

ECL 4 poles

ECL 4 poles DN 32F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 32-80/4/0.25K/...	979529245	979526776
ECL 32-100/4/0.37K/...	979529246	979526780

ECL 4 poles DN 40F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 40-65/4/0.37S/...	979529247	979526577
ECL 40-90/4/0.55S/...	979529248	979526581
ECL 40-110/4/0.75K/...	979529249	979526782
ECL 40-140/4/1.1K/...	979529250	979526783

ECL 4 poles DN50F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 50-50/4/0.37S/...	979529251	979526585
ECL 50-65/4/0.55S/...	979529252	979526589
ECL 50-70/4/0.55S/...	979529253	979526593
ECL 50-75/4/0.55K/...	979529254	979527463
ECL 50-85/4/0.75S/...	979529255	979526597
ECL 50-90/4/0.75K/...	979529256	979527467
ECL 50-110/4/0.75K/...	979529257	979527441
ECL 50-110/4/1.1K/...	979529258	979527470
ECL 50-120/4/1.1K/...	979529259	979526787
ECL 50-140/4/1.5K/...	979529260	979526788
ECL 50-190/4/2.2K/...	979529261	979526791
ECL 50-230/4/3.0K/...	979529262	979526795

ECL 4 poles DN 65F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 65-50/4/0.55K/...	979529263	979527471
ECL 65-50/4/0.55S/...	979529264	979526605
ECL 65-60/4/0.75S/...	979529265	979526609
ECL 65-70/4/0.75K/...	979529266	979527442
ECL 65-90/4/0.75K/...	979529267	979527473
ECL 65-90/4/1.1K/...	979529268	979527475
ECL 65-105/4/1.5S/...	979529269	979526621
ECL 65-110/4/1.1K/...	979529270	979526799
ECL 65-130/4/1.5K/...	979529271	979526803
ECL 65-150/4/2.2K/...	979529272	979526805
ECL 65-170/4/3.0K/...	979529273	979526808
ECL 65-180/4/3.0S/...	979529274	979526625
ECL 65-220/4/3.0S/...	979529275	979527478
ECL 65-220/4/4.0S/...	979529276	979527482
ECL 65-240/4/4.0K/...	979529277	979526814

ECL 4 poles DN80F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 80-45/4/0.55S/...	979529278	979526629
ECL 80-60/4/0.75S/...	979529279	979526633
ECL 80-70/4/1.1K/...	979529280	979526818
ECL 80-70/4/1.5K/...	979529281	979527486
ECL 80-90/4/1.5K/...	979529282	979526822
ECL 80-90/4/2.2K/...	979529283	979527490
ECL 80-110/4/2.2K/...	979529284	979526824
ECL 80-115/4/2.2S/...	979529285	979526637
ECL 80-150/4/3.0K/...	979529286	979526827
ECL 80-170/4/4.0K/...	979529287	979526831
ECL 80-205/4/5.5S/...	979529288	979526641
ECL 80-260/4/7.5S/...	979529289	979526645
ECL 80-330/4/11.0S/...	979529290	979526649
ECL 80-360/4/15.0S/...	979529291	979526653

ECL 4 poles DN 100F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 100-70/4/1.5K/...	979529292	979526835
ECL 100-90/4/2.2K/...	979529293	979526837
ECL 100-110/4/2.2K/...	979529294	979527492
ECL 100-110/4/3.0K/...	979529295	979526840
ECL 100-130/4/4.0K/...	979529297	979529959
ECL 100-130/4/4.0S/...	979529296	979526657
ECL 100-145/4/4.0S/...	979529298	979526661
ECL 100-170/4/5.5K/...	979529299	979529960
ECL 100-175/4/5.5S/...	979529300	979526665
ECL 100-220/4/7.5S/...	979529301	979526669
ECL 100-250/4/11.0S/...	979529302	979526673

ECL 4 poles DN125F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 125-80/4/2.2S/...	979529939	979529961
ECL 125-100/4/4.0S/...	979529940	979529962
ECL 125-150/4/5.5S/...	979529303	979526677
ECL 125-180/4/7.5S/...	979529304	979526681
ECL 125-225/4/11.0S/...	979529305	979526685
ECL 125-285/4/15.0S/...	979529306	979526689

ECL 4 poles DN150F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 150-140/4/11.0S/...	979529307	979526693
ECL 150-180/4/15.0S/...	979529308	979526697
ECL 150-210/4/15.0S/...	979529309	979526701
ECL 150-220/4/22.0S/...	979529941	979529963
ECL 150-250/4/18.5S/...	979529310	979526705
ECL 150-275/4/22.0S/...	979529311	979526709
ECL 150-330/4/30.0S/...	/	979529964

ECL 4 poles DN 200F

Type	FC Nastec ...I-N-2xTT	FC Danfoss ...L-D-2xTT
ECL 200-130/4/11.0S/...	979529943	979529965
ECL 200-170/4/15.0S/...	979529944	979529966
ECL 200-170/4/18.5S/...	979529945	979529967
ECL 200-250/4/22.0S/...	979529946	979529968
ECL 200-250/4/30.0S/...	/	979529969

ECLD 2 poles

ECLD 2 poles DN 40F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 40-140/2/0.75A/...	979529451	979526846
ECLD 40-170/2/0.75A/...	979529452	979526847
ECLD 40-220/2/1.1A/...	979529453	979526848
ECLD 40-250/2/1.5A/...	979529454	979526849

ECLD 2 poles DN50F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 50-170/2/1.5A/...	979529458	979526850
ECLD 50-200/2/2.2A/...	979529459	979526851
ECLD 50-250/2/3.0A/...	979529460	979526852
ECLD 50-310/2/3.0A/...	979529461	979526853
ECLD 50-370/2/4.0A/...	979529462	979526854

ECLD 2 poles DN65F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 65-240/2/3.0A/...	979529466	979526855
ECLD 65-270/2/4.0A/...	979529467	979526856
ECLD 65-330/2/5.5A/...	979529468	979526857
ECLD 65-370/2/7.5A/...	979529469	979526858

ECLD 2 poles DN80F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 80-260/2/7.5A/...	979529474	979526859
ECLD 80-310/2/11.0A/...	979529948	979526860
ECLD 80-370/2/15.0A/...	979529949	979526861
ECLD 80-420/2/15.0A/...	979529950	979526862

ECLD 2 poles DN100F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 100-255/2/11.0A/...	979529951	979526863
ECLD 100-285/2/15.0A/...	979529952	979526864
ECLD 100-290/2/15.0A/...	979529953	979526865
ECLD 100-315/2/15.0A/...	979529954	979526866
ECLD 100-340/2/15.0A/...	979529955	979526867
ECLD 100-390/2/15.0A/...	979529956	979526868

ECLD 4 poles

ECLD 4 poles DN 40F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 40-40/4/0.25A/...	979529448	979526869
ECLD 40-50/4/0.25A/...	979529449	979526870
ECLD 40-65/4/0.25A/...	979529450	979526871

ECLD 4 poles DN50F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 50-50/4/0.25A/...	979529455	979526872
ECLD 50-65/4/0.37A/...	979529456	979526873
ECLD 50-90/4/0.55A/...	979529457	979526874

ECLD 4 poles DN65F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 65-70/4/0.75A/...	979529463	979526875
ECLD 65-80/4/0.75A/...	979529464	979526876
ECLD 65-90/4/1.1A/...	979529465	979526877

ECLD 4 poles DN80F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 80-65/4/0.75A/...	979529470	979526878
ECLD 80-75/4/1.1A/...	979529471	979526879
ECLD 80-85/4/1.1A/...	979529472	979526880
ECLD 80-105/4/1.5A/...	979529473	979526881

ECLD 4 poles DN100F

Type	2x FC Nastec ...I-N-2xTT	2x FC Danfoss ...L-D-2xTT
ECLD 100-85/4/1.5A/...	979529475	979526882
ECLD 100-105/4/2.2A/...	979529476	979526883
ECLD 100-125/4/3.0A/...	979529477	979526884
ECLD 100-150/4/4.0A/...	979529478	979526885

CV, PV

CV/PV 32 - 4 / 60

- Impeller size
- Number of poles
- DN
- Type: CV - Casing Cast iron
  PV - Casing Bronze



Construction

Close-coupled, single-impeller, centrifugal pums with standard electric motor and electric motor with extended shaft. Pump casing with suction and delivery connections with the same diameter and on the same axis (in-line).

Motor

2 poles n ≈ 2900 rpm; 50Hz
4 poles n ≈ 1450 rpm; 50Hz

Three phase;
230V/400V

Technical specification of the motor	
Rated power	0,125kW - 0,25kW
Efficiency class	IE 2
Degree of protection	IP 55
Insulation class	F
MEI	MEI ≥ 0,40
ErP	EuP Standalone product

Technical data

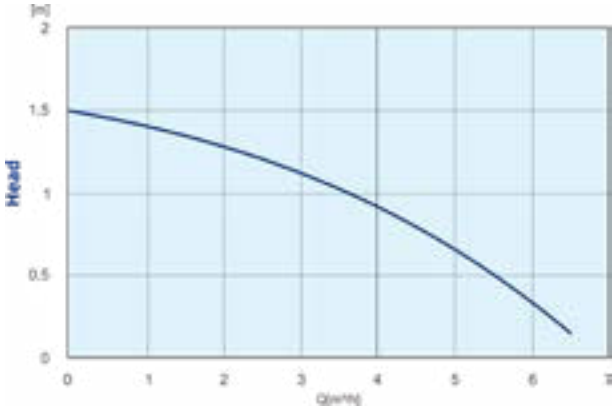
TECHNICAL FEATURES	CV/PV
CONNECTIONS (DN)	32
CONNECTION TYPE	FLANGE
MAX OPERATING PRESSURE (PN)	10
AMBIENT TEMPERATURE	-10°C TO +40°C
MEDIA TEMPERATURE	-10°C TO +110°C
TWIN PUMP	NO
APPLICATIONS	**CV/PV**
HEATING	YES
COOLING	YES
SANITARY WATER	CV-NO; PV-YES
CLIMATE APPLIANCES	YES
INDUSTRY	YES
PROCESS TECHNIQUE	YES
CONDENSATION	NO
SALT WATER	NO
MATERIALS	**CV/PV**
HYDRAULIC CASING	CAST IRON/ BRONZE
IMPELLER	NORYL
MECHANICAL SEAL STANDARD	AQ1EGG

Peformance range

CV/PV 2 poles ≈ 2900 rpm



CV/PV 4 poles ≈ 1450 rpm



CV 2 and 4 poles - Q/H performance

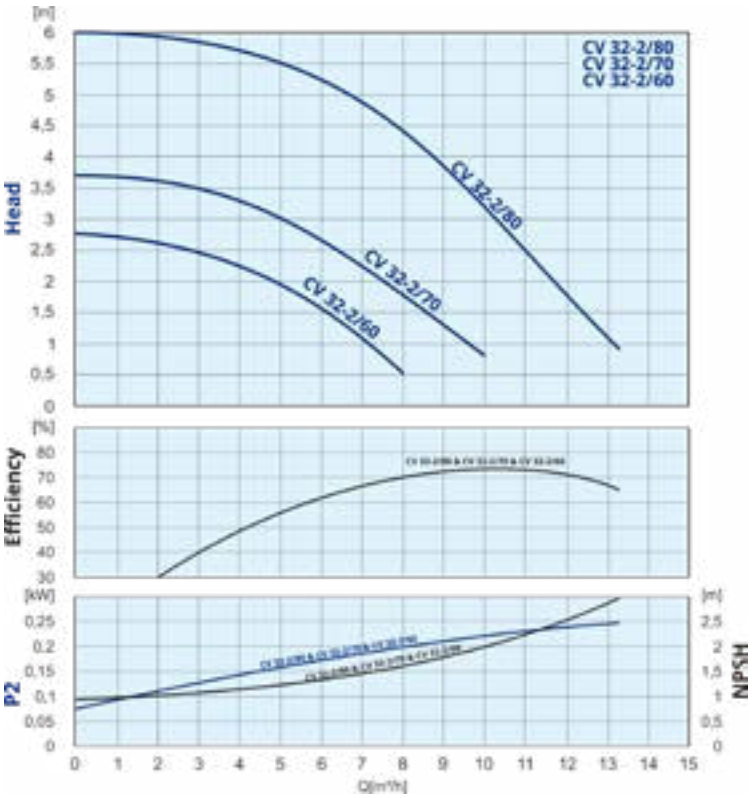
CV 2 poles

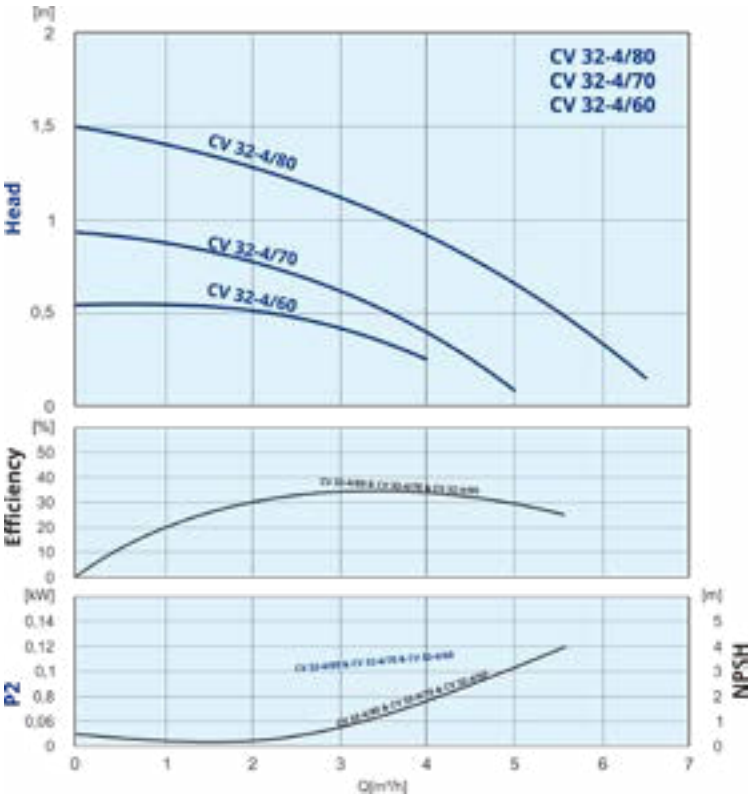
Code	Type	P [kW]	I [A]		Q [m³/h]													
					2	3	4	5	6	7	8	9	10	11	12	13	14	15
979521529	CV 32-2/60	0,25	0,64	H [m]	2,6	2,5	2,3	1,9	1,5	1,1	0,5							
979521528	CV 32-2/70	0,25	0,64		3,6	3,5	3,3	3	2,7	2,3	1,8	1,4	0,8					
979521527	CV 32-2/80	0,25	0,64		5,9	5,8	5,7	5,5	5,2	4,9	4,5	3,8	3,2	2,5	1,7	1,1		

CV 4 poles

Code	Type	P [kW]	I [A]		Q [m³/h]													
					0	1	2	3	4	5	6	7	8	9	10	11	12	13
979521532	CV 32-4/60	0,12	0,41	H [m]	0,6	0,6	0,5	0,4	0,3									
979521531	CV 32-4/70	0,12	0,41		0,9	0,8	0,8	0,7	0,4	0,1								
979521530	CV 32-4/80	0,12	0,41		1,5	1,4	1,3	1,2	0,9	0,7	0,3							

CV 2 and 4 poles - Performance curves





PV 2 and 4 poles - Q/H performance

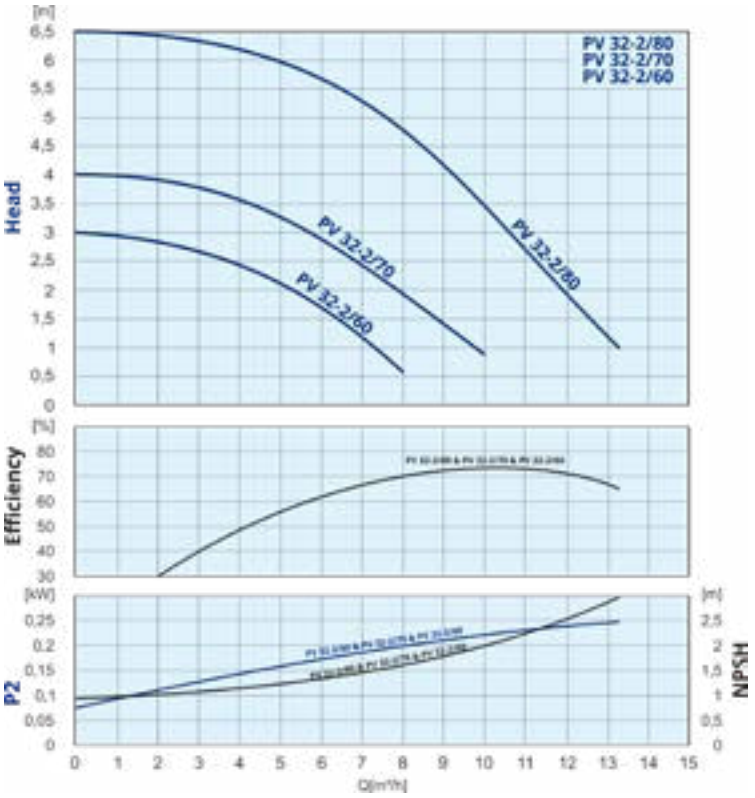
PV 2 poles

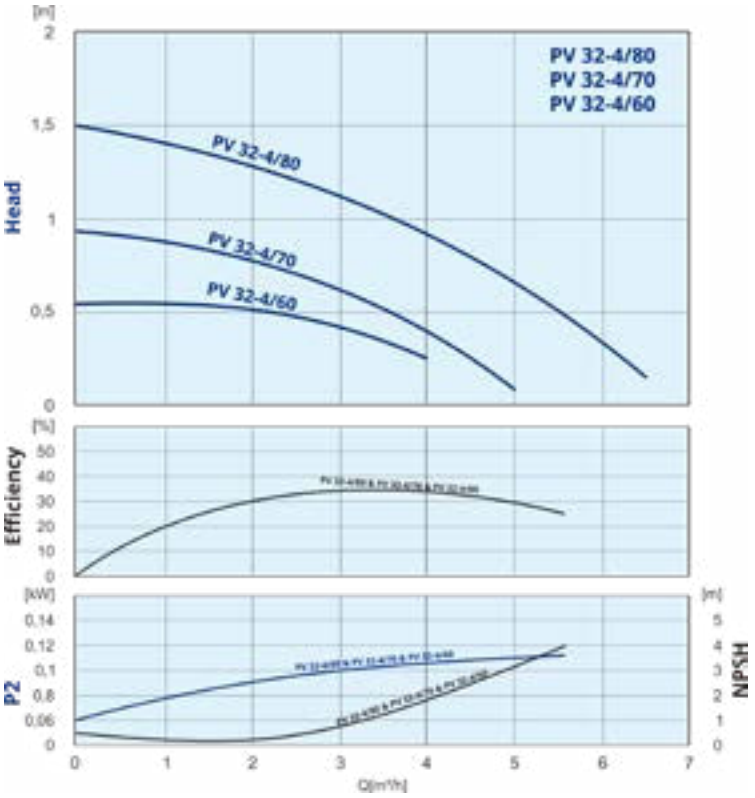
Code	Type	P [kW]	I [A]		Q [m³/h]													
					2	3	4	5	6	7	8	9	10	11	12	13	14	15
979521523	PV 32-2/60	0,25	0,64	H [m]	2,6	2,5	2,3	1,9	1,5	1,1	0,5							
979521522	PV 32-2/70	0,25	0,64		3,6	3,5	3,3	3	2,7	2,3	1,8	1,4	0,8					
979521521	PV 32-2/80	0,25	0,64		5,9	5,8	5,7	5,5	5,2	4,9	4,5	3,8	3,2	2,5	1,7	1,1		

PV 4 poles

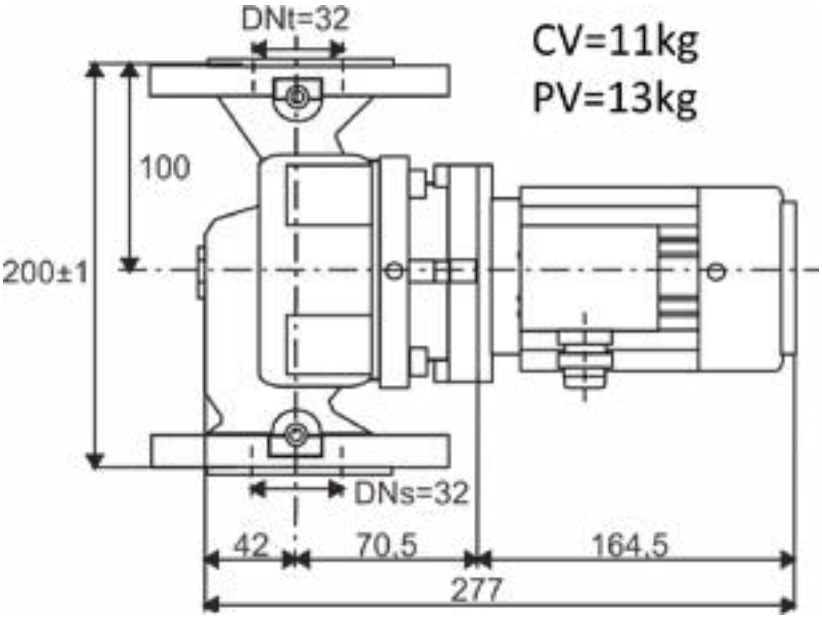
Code	Type	P [kW]	I [A]		Q [m³/h]													
					0	1	2	3	4	5	6	7	8	9	10	11	12	13
979521526	PV 32-4/60	0,12	0,41	H [m]	0,6	0,6	0,5	0,4	0,3									
979521525	PV 32-4/70	0,12	0,41		0,9	0,8	0,8	0,7	0,4	0,1								
979521524	PV 32-4/80	0,12	0,41		1,5	1,4	1,3	1,2	0,9	0,7	0,3							

CV 2 and 4 poles - Performance curves

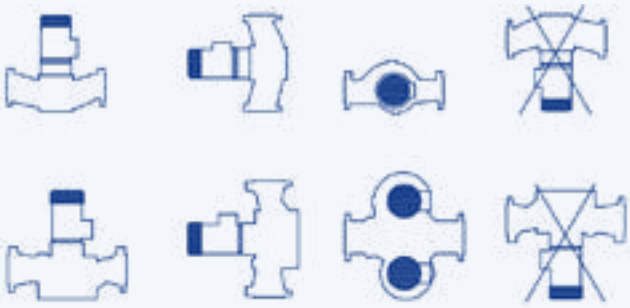




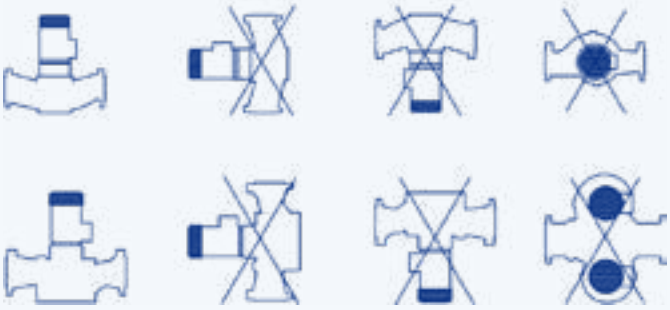
CV/PV 2 and 4 poles - Dimensions



Permited mounting positions for (E)CL(D), CV & PV pumps



Installation of motor sizes up to 7,5 kW



Installation of motor sizes from 11,0 kW



THE HONEST PRODUCT FOR THE HONEST PRICE

IMP PUMPS d.o.o.
Pod hrasti 28
1218 Komenda
SLOVENIA

E: info@imp-pumps.com
T: +386 1 28 06 400
F: +386 1 28 06 460
www.imp-pumps.com

Contact:

IMPPUMPS®
Intelligent Motor Pumps

27.2.2025

© IMP PUMPS d.o.o.