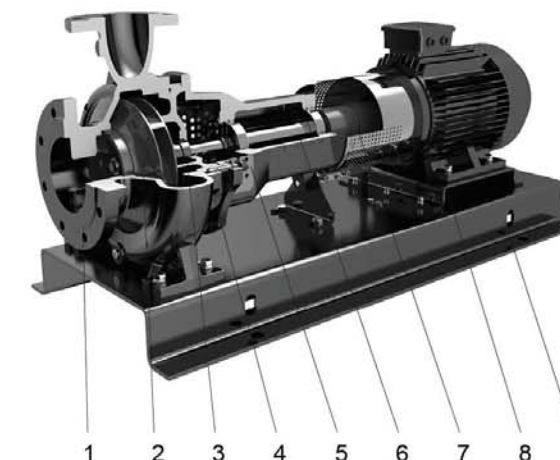


Materials Table

No.	Part	Material
1	Pump body	Cast iron
2	Impeller	Cast iron
3	Mechanical seal	Carbon/Silicon carbide
4	Pump cover	Cast iron
5	Bearing base	Cast iron
6	Pump shaft	Steel/AISI 304
7	Coupling	
8	Motor	
9	Base plate	Iron



Application

- Water supply systems
- Pressure boosting
- Heating systems for commercial buildings and district heating
- Cooling plants for industrial processing and air-conditioning units
- General transport for industrial processes
- Fire fighting system

Pump

- Liquid PH value: 4 - 10
- Liquid temperature: 0°C - 90°C
- Power range: 2.2 - 30 kW
- Max head: 39.5 m
- Max operation pressure: 10 bar
- Altitude: up to 1,000 m

Motor

- Insulation class: F
- Protection class: IP55
- IE 2 motor as standard. IE 3 motor is available on request

Flange

- EN 1092 and DIN 2576 standard

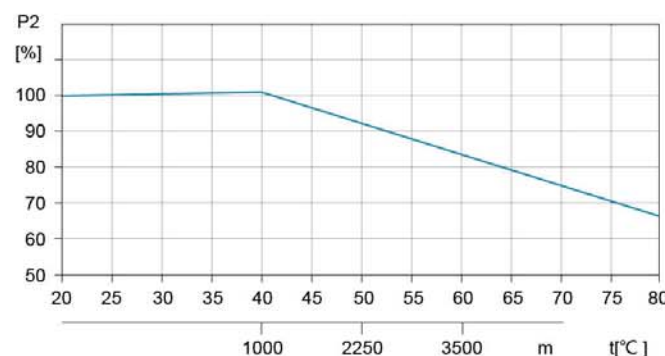
Ambient Temperature

Max. Ambient temperature: +40°C. Ambient temperature above 40°C, or installation at altitude of more than 1000 m above sea level, require the use of an oversize motor.

Because of low air density and poor cooling effects, the motor output power P2 will be decreased. See the picture.

For example, when the pump is installed at altitude of more than 3500 m above sea level, P2 will be decrease to 88%.

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



Identification Codes

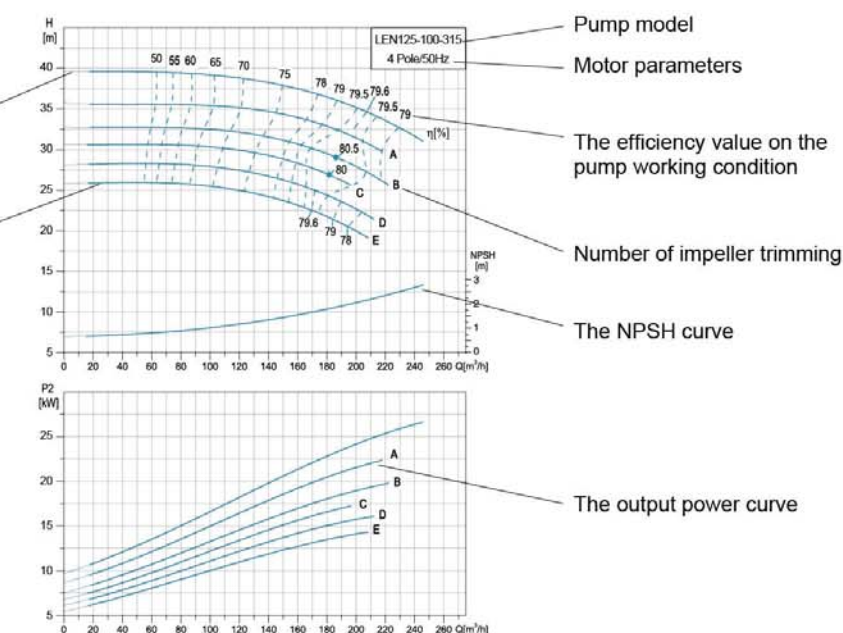
LEN 125 - 100 - 200 A / 2

- LEN: LEO End Suction Centrifugal Pump
- 125: Inlet Diameter (mm)
- 100: Outlet Diameter (mm)
- 200: Impeller Nominal Diameter
- A: Number of Impeller Trimming (A:1st cut B:2nd cut C:3rd cut)
- 2: Motor pole (omitted for 4)

How to Read The Curve Charts

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

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

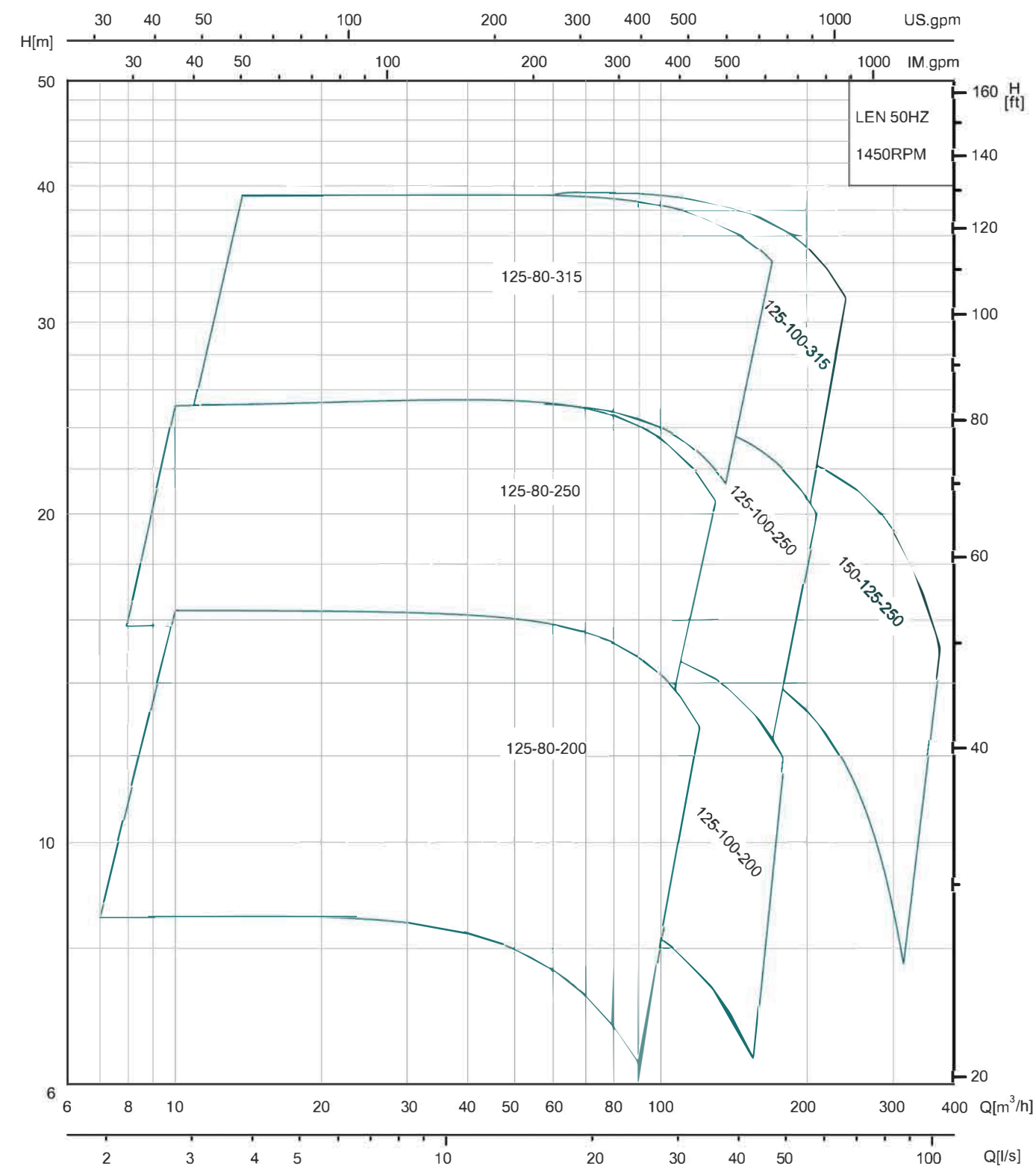


Guidelines to Performance Curves

Tolerances to ISO 9906, Annex A. Measurements have been made with airless water at a temperature of 20°C and kinematic viscosity of 1mm²/s. To avoid overheating of the motor, the pump should not be use against a high head for a long time.

Hydraulic Performance Curves

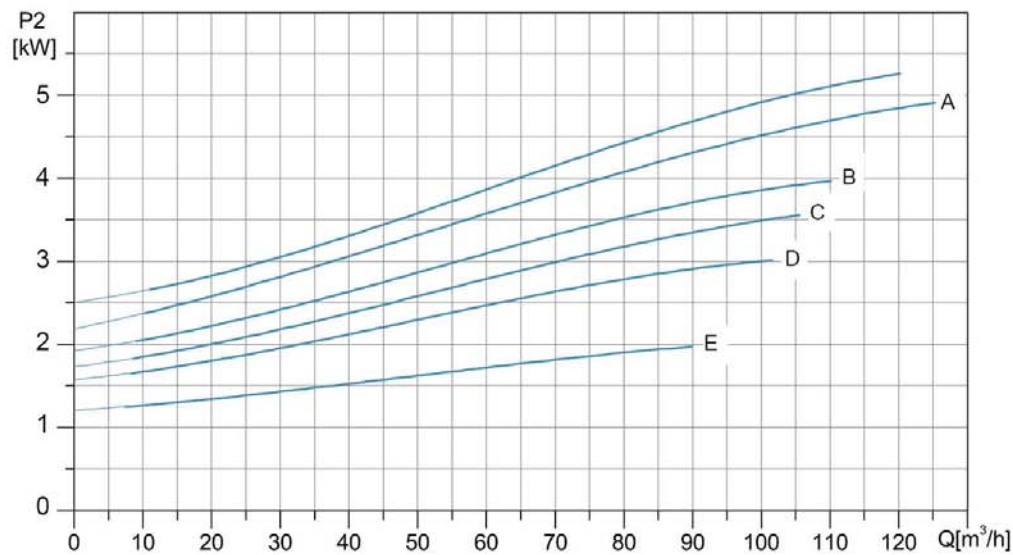
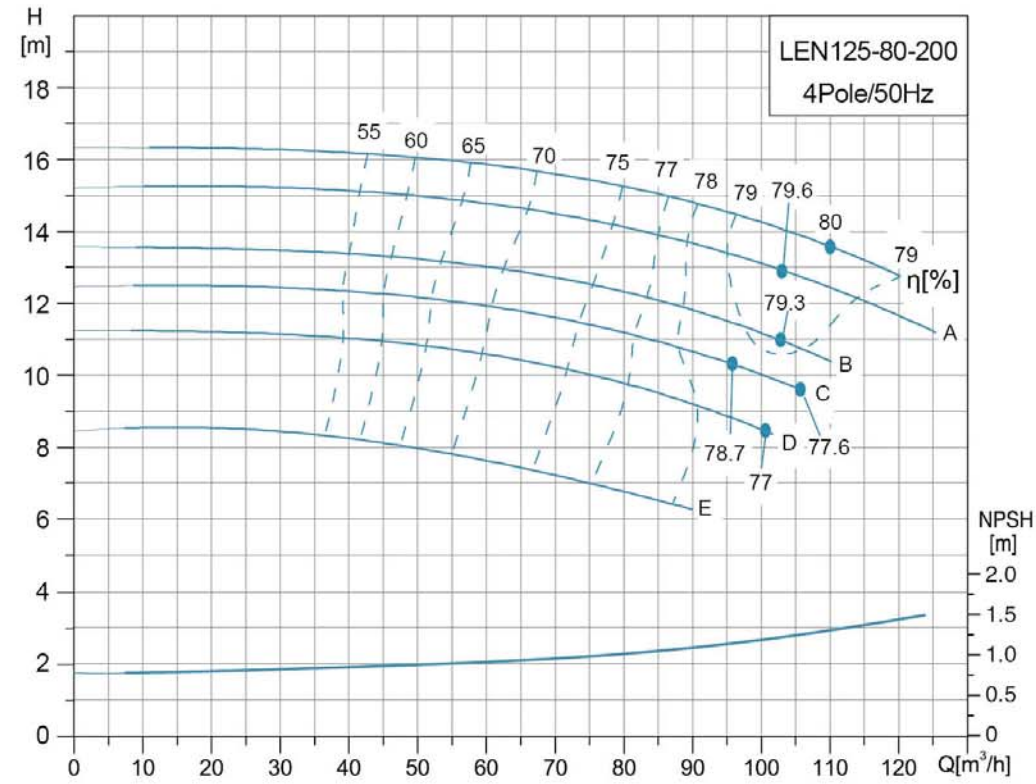
Model	Power (kW)	Rated Flow (m³/h)	Rated Head (m)	Max. Flow (m³/h)	Min. Flow (m³/h)	NPSH (m)
LEN125-80-200	5.5	100	14.5	120	70	2
LEN125-80-200A	5.5	95	13	123.5	66.5	2
LEN125-80-200B	4	90	11.5	108	63	2
LEN125-80-200C	4	85	10.5	110.5	59.5	2
LEN125-80-200D	3	82	9.5	98.5	57.4	2
LEN125-80-200E	2.2	70	7.5	91	49	2
LEN125-100-200	7.5	150	13.5	180	105	2.8
LEN125-100-200A	7.5	145	12	188.5	101.5	2.3
LEN125-100-200B	5.5	140	10.5	168	98	2.3
LEN125-100-200C	5.5	135	9.5	175.5	94.5	2.3
LEN125-100-200D	4	130	7	156	91	2.3
LEN125-80-250	11	100	22.5	130	70	2
LEN125-80-250A	11	96	20.5	125	67.2	2
LEN125-80-250B	7.5	90	18	117	63	2
LEN125-80-250C	7.5	85	16	110.5	59.5	2
LEN125-80-250D	5.5	82	15	98.5	57.4	2
LEN125-80-250E	5.5	78	14	101.5	54.6	2
LEN125-100-250	15	160	21	208	112	2
LEN125-100-250A	15	154	19	200	107.8	2
LEN125-100-250B	11	146	17.5	190	102.2	2
LEN125-100-250C	11	140	16	182	98	2
LEN125-100-250D	11	135	14.5	175.5	94.5	2
LEN125-100-250E	7.5	130	13	156	91	2
LEN125-100-250F	7.5	128	12	166.5	89.6	2
LEN150-125-250	22	290	19	377	203	3.5
LEN150-125-250A	18.5	280	17	336	196	3.5
LEN150-125-250B	18.5	270	15.5	351	189	3.5
LEN150-125-250C	15	256	14	333	179.2	3.5
LEN150-125-250D	15	250	12.5	325	175	3.5
LEN150-125-250E	11	242	11	315	169.4	3.5
LEN125-80-315	22	130	36	169	91	2
LEN125-80-315A	18.5	125	32	162.5	87.5	2
LEN125-80-315B	15	122	29	146.5	85.4	2
LEN125-80-315C	15	116	26.5	151	81.2	2
LEN125-80-315D	15	112	24	145.5	78.4	2
LEN125-80-315E	11	106	22	138	74.2	2
LEN125-100-315	30	185	35	240.5	129.5	2.2
LEN125-100-315A	22	178	30.5	213.5	124.6	2.2
LEN125-100-315B	22	172	28	223.5	120.4	2.2
LEN125-100-315C	18.5	166	28	199	116.2	2.2
LEN125-100-315D	18.5	162	24	210.5	113.4	2.2
LEN125-100-315E	15	158	22	205.5	110.6	2.2



Hydraulic Performance Curves

LEN125-80-200

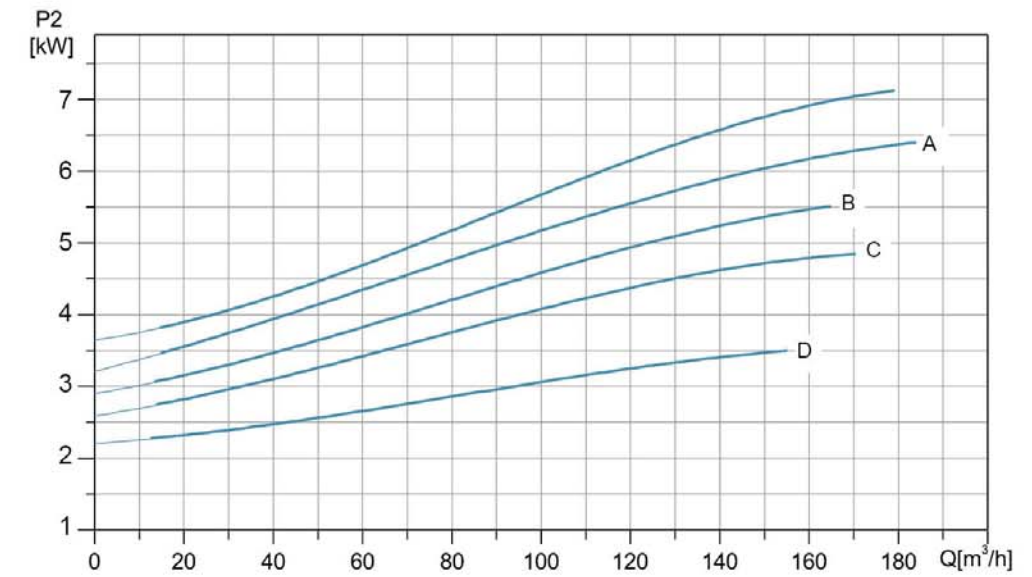
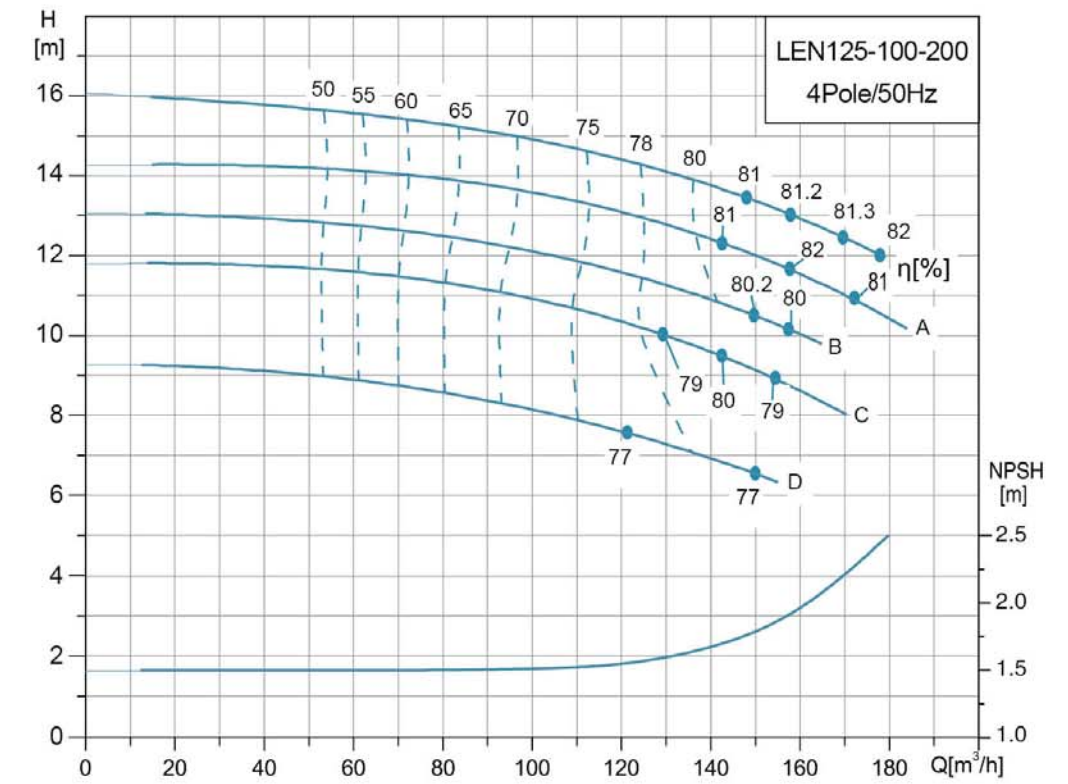
1450r/min



Hydraulic Performance Curves

LEN125-100-200

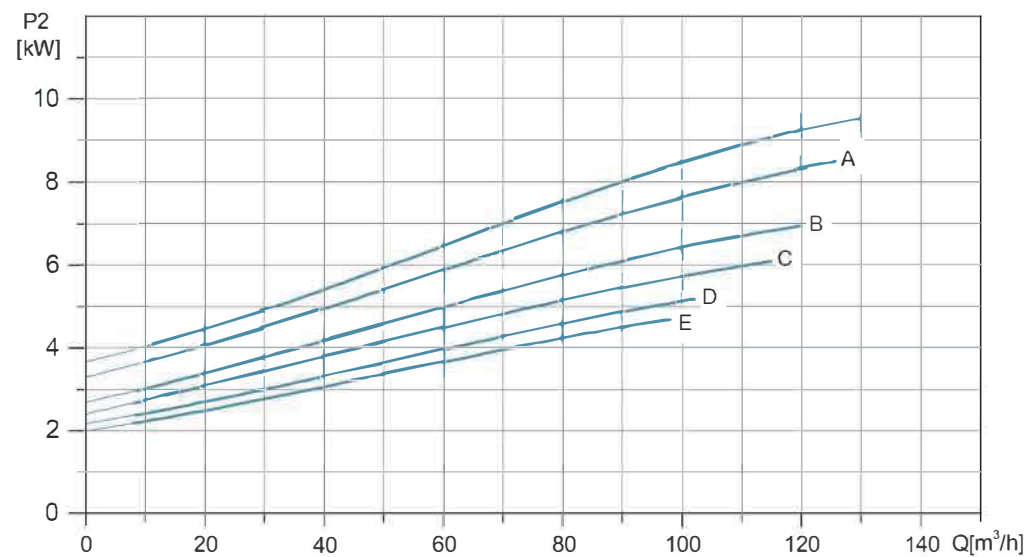
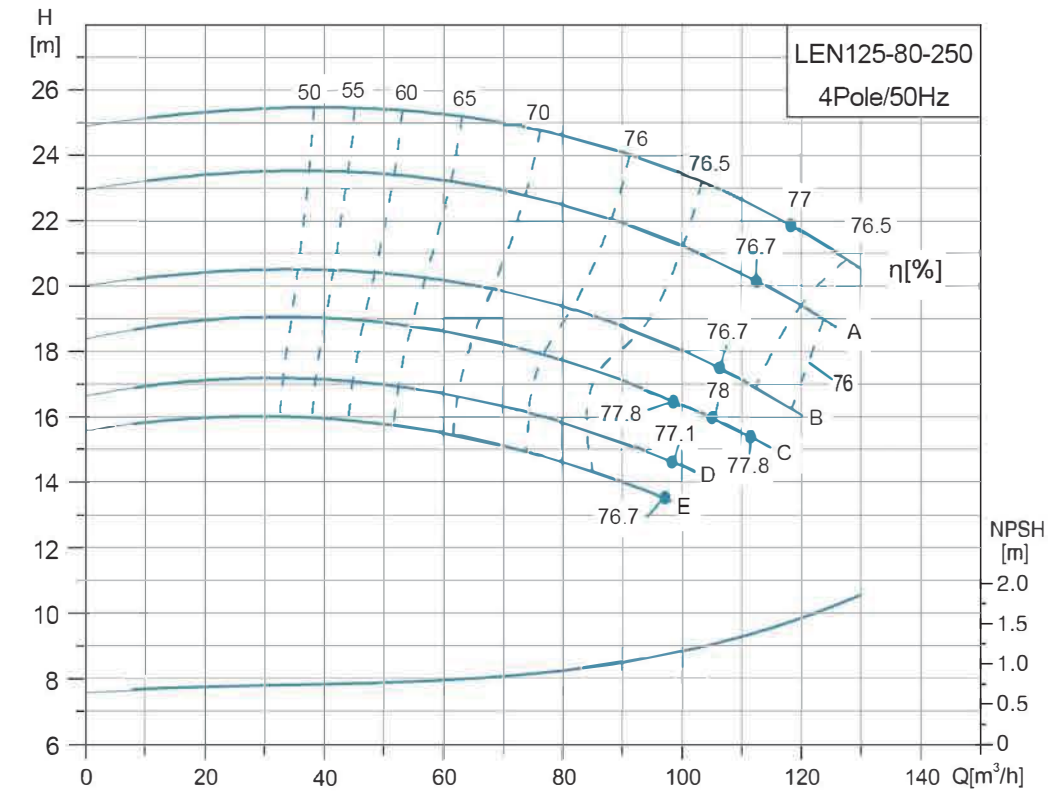
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Hydraulic Performance Curves

LEN125-80-250

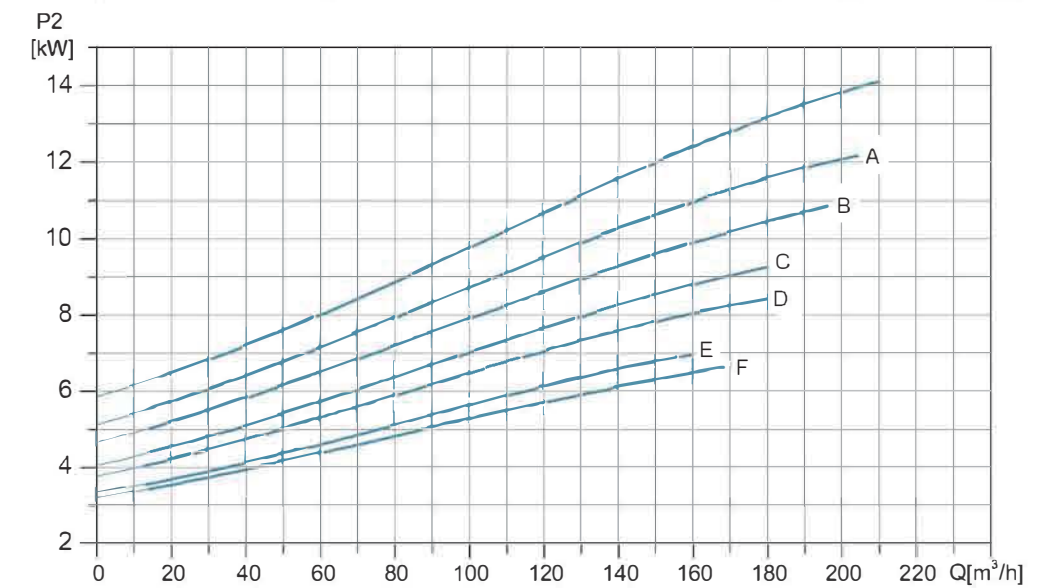
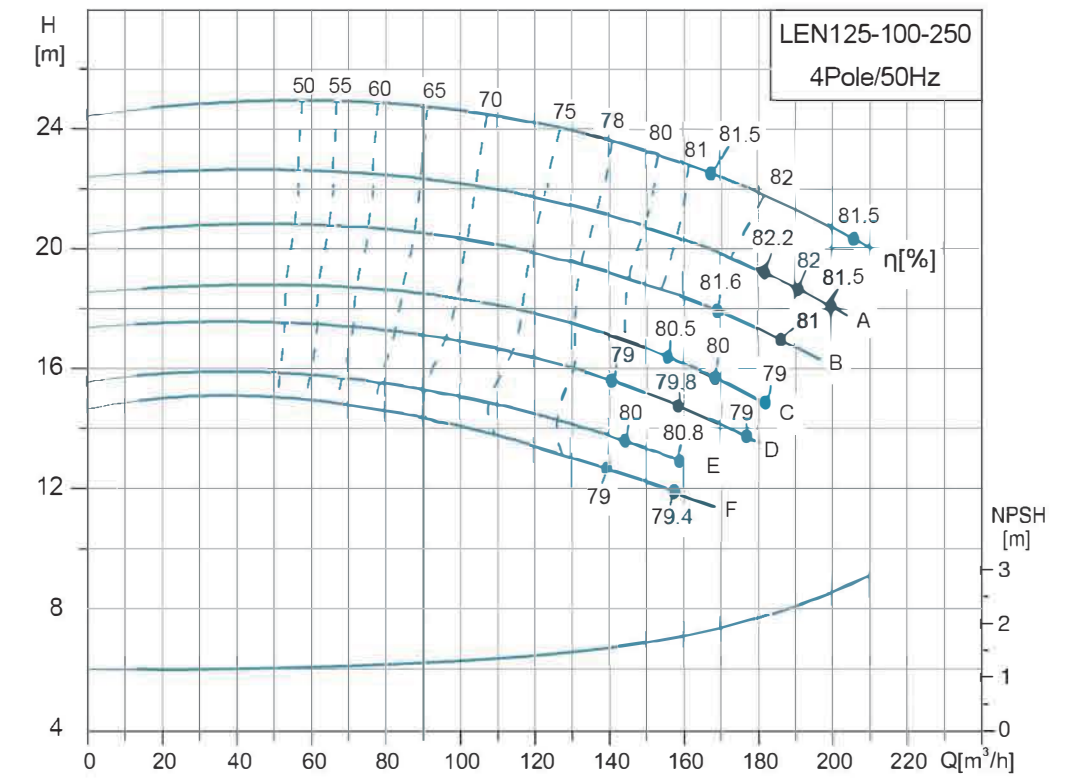
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Hydraulic Performance Curves

LEN125-100-250

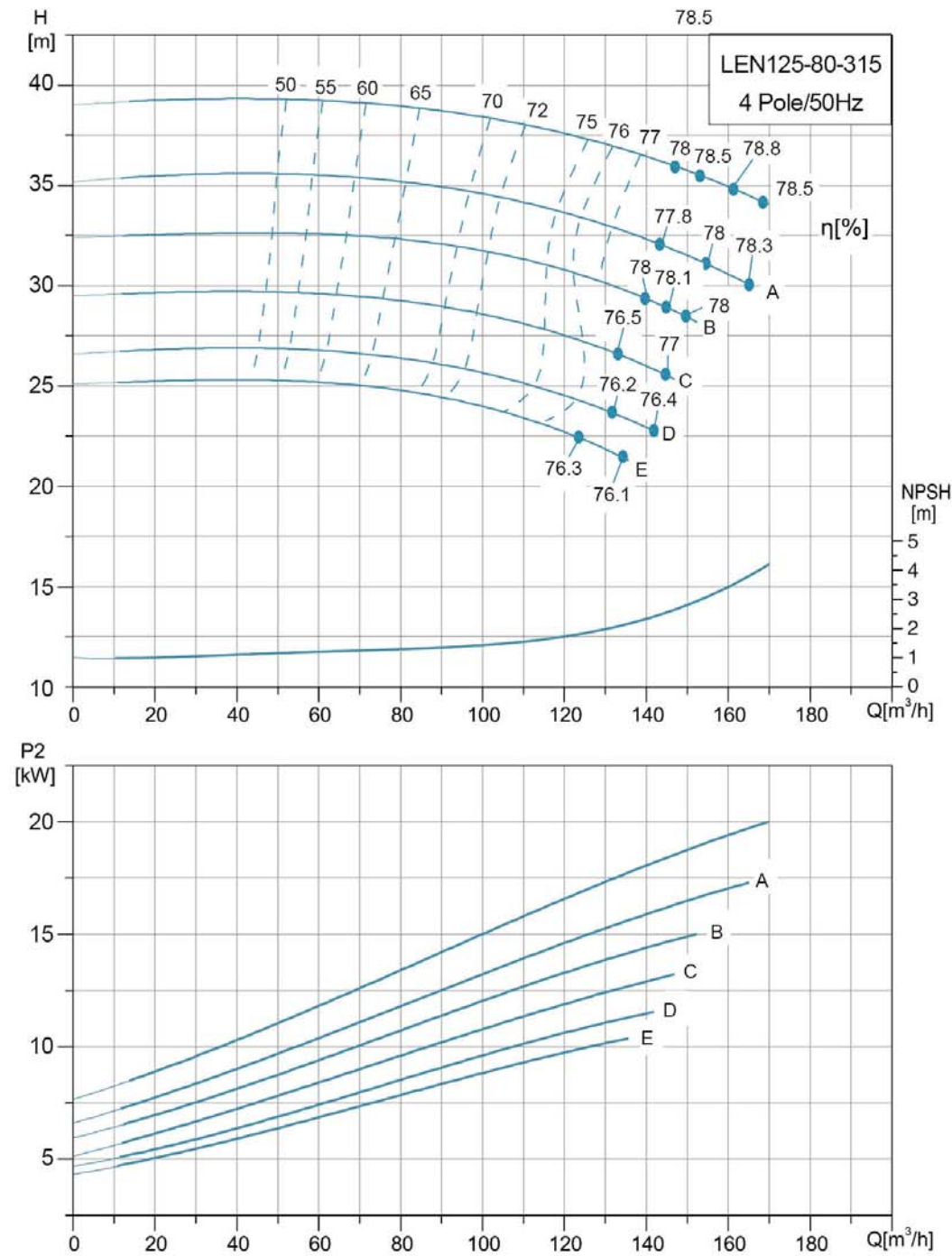
1450r/min



Hydraulic Performance Curves

LEN125-80-315

1450r/min



Hydraulic Performance Curves

LEN125-100-315

1450r/min

