



Application

- HVAC: Circulation of hot water, boiler mix-flow, temperature mix-flow, intermittent heat supply, etc
- Air conditioning system: Cooling water circulation
- Water supply system: Filtration and transfer at waterworks; Pressure boosting in main pipe
- Industrial applications: Washing & cleaning systems, boiler feeding, cooling water circulation, water treatment systems, and auxiliary systems
- Fire-fighting system

Pump

- Flow: up to 760 m³/h
- Head: up to 85 m
- Power range: 0.37 – 132 kW
- Liquid temperature: 0°C – +90°C
- Max ambient temperature: + 40°C
- Max operation pressure: 16 bar
- Altitude: up to 1000 m

Motor

- Closed construction
- Insulation class: F
- Protection class: IP 55
- IE 2 motor as standard. IE 3 motor is available on request

Flange

- EN 1092 and DIN 2576 standard

Identification Codes

LPP 80- 36-15/ 2

- Motor Pole
- Rated Power (kW)
- Rated Head (m)
- Inlet/Outlet Diameter (mm)
- LEO Vertical In-line Pump

Materials Table

No.	Part	Materials
1	Pump body	Cast iron
2	Impeller	Cast iron
3	Mechanical seal	Carbon/Silicon carbide
4	Pump shaft	Steel/AISI 304
5	Clamp ring	Steel
6	Motor base	Cast iron
7	Motor	

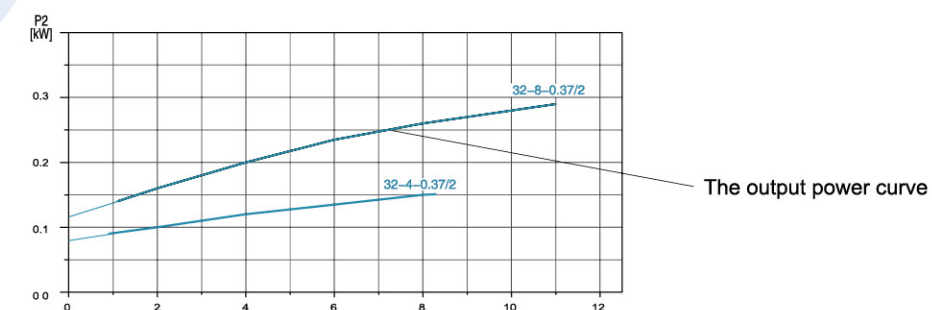
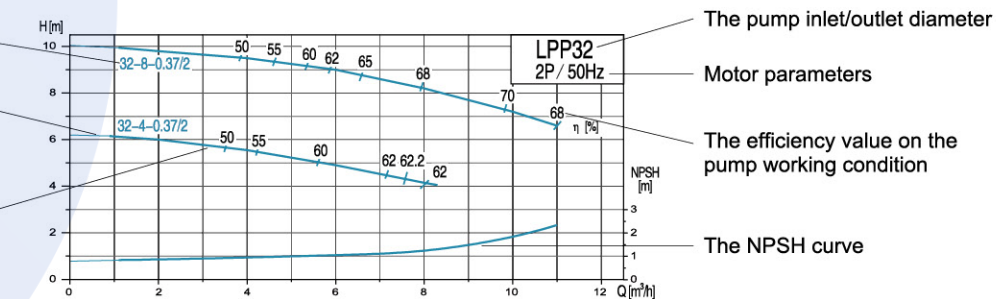


How to Read The Curve Charts

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

Pump model



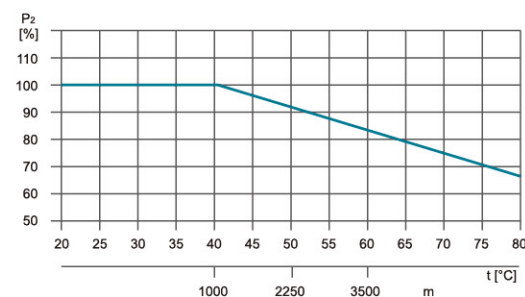
Guidelines to Performance Curves

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.

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.

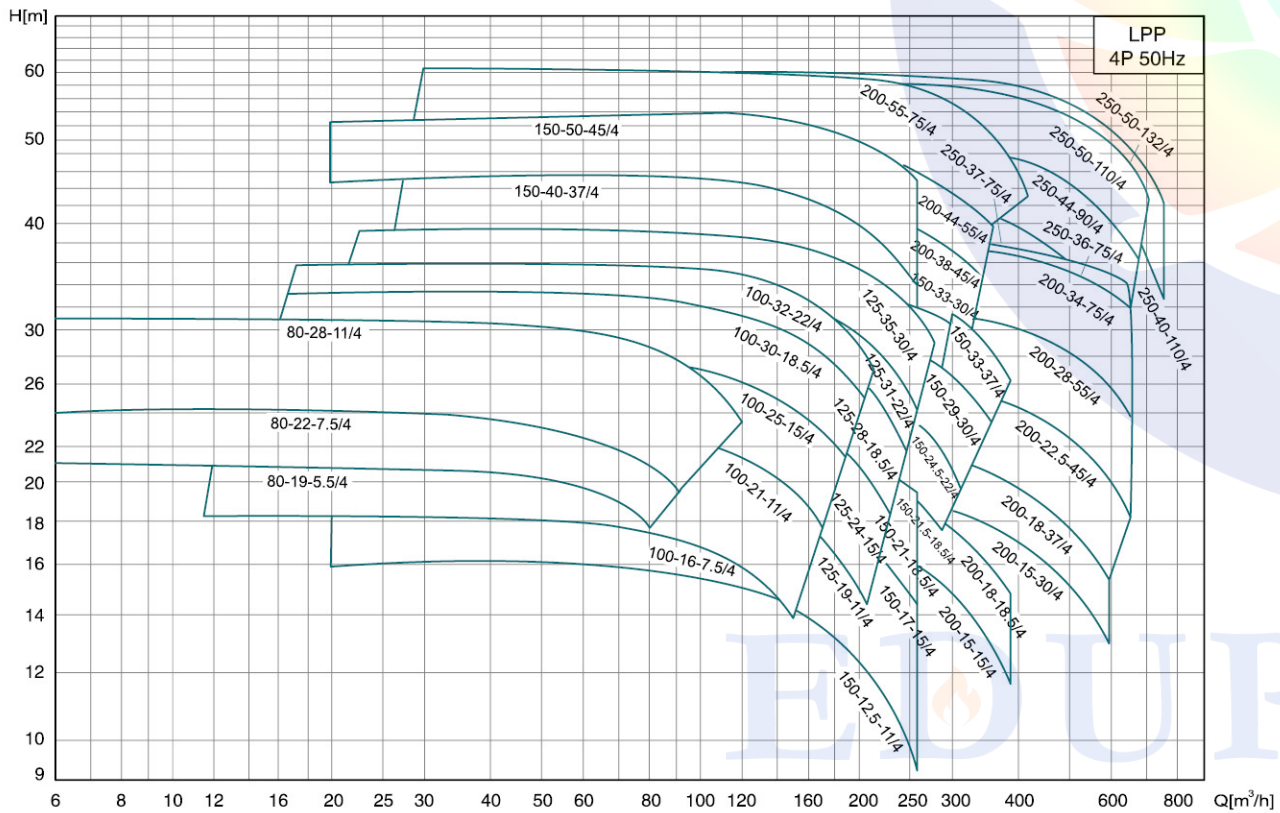
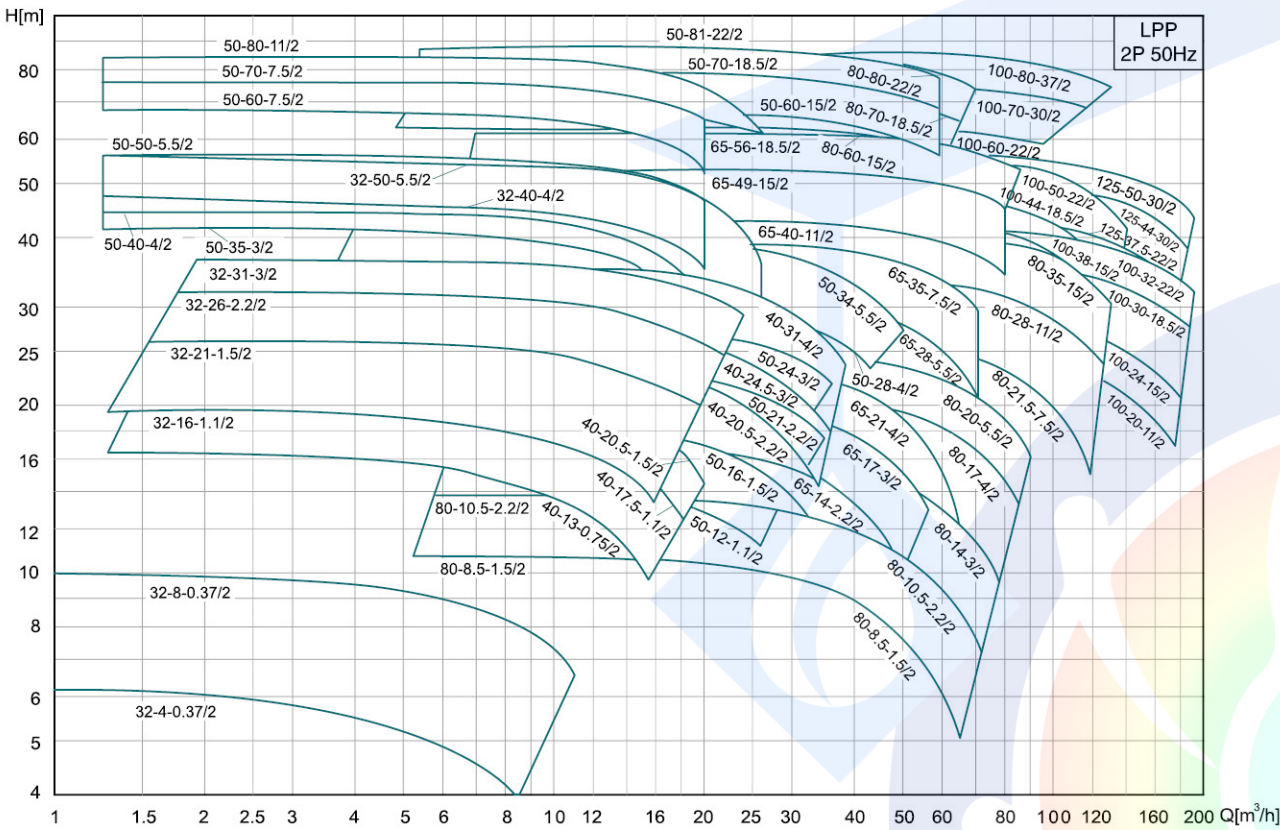
For example, when the pump is installed at altitude of more than 3500 m above sea level, P2 will be decrease to 88%. When the ambient temperature is 70°C, P2 will be decreased to 78%.



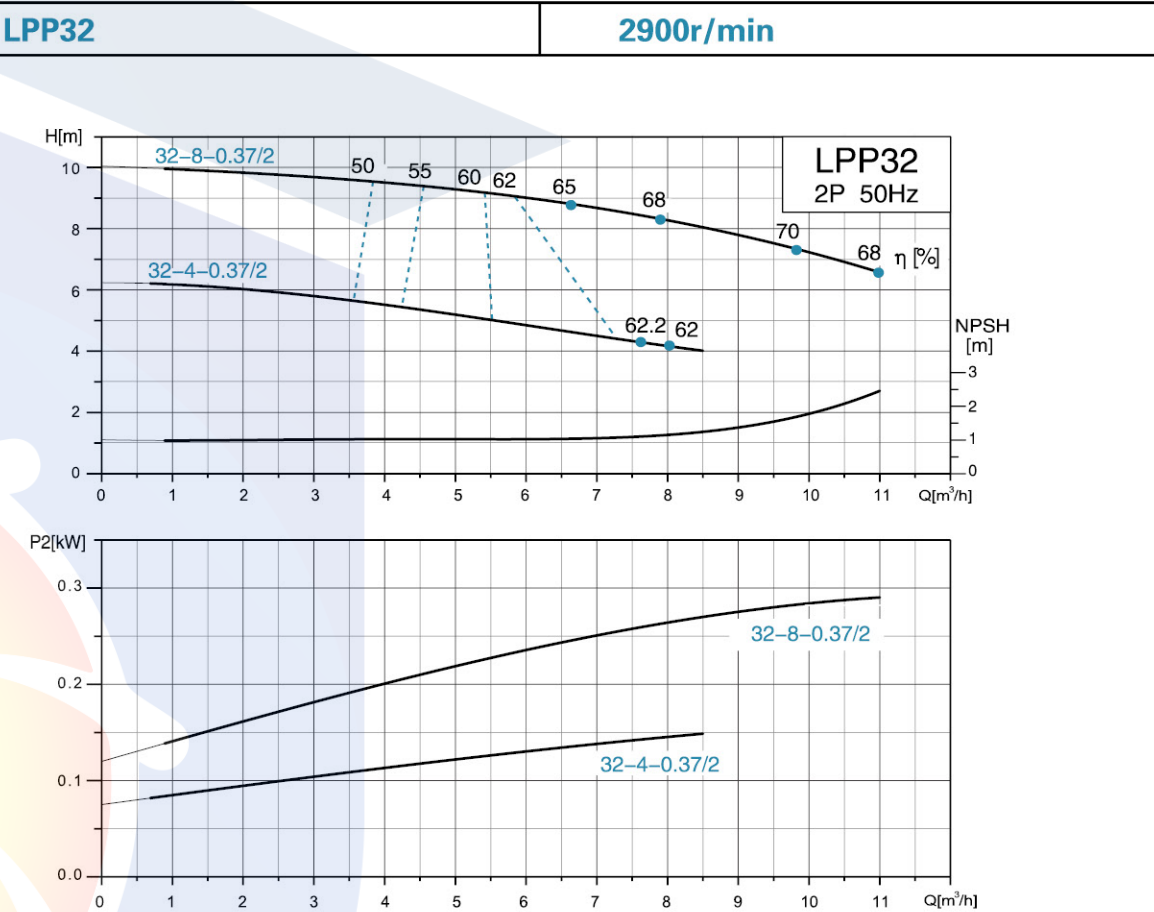
Model	Power P2 (kW)	Rated Speed n (r/min)	Rated Flow Q (m³/h)	Rated Head (m)	Max. Flow Q (m³/h)	Max. Head H(m)	NPSHc (m)
LPP32-8-0.37/2	0.37	2900	8.5	8	11	10	2
LPP32-4-0.37/2	0.37	2900	7.5	4	8.5	6	2
LPP32-31-3/2	3	2900	20	31	24	37	2
LPP32-26-2.2/2	2.2	2900	18	26	21	32	2
LPP32-21-1.5/2	1.5	2900	14	21	18.5	26	2
LPP32-16-1.1/2	1.1	2900	12	16	16	20	2
LPP32-50-5.5/2	5.5	2900	12.5	50	20	53.5	2.5
LPP32-40-4/2	4	2900	12.5	40	20	46	2.5
LPP40-20.5-1.5/2	1.5	2900	12	20.5	20	25	2
LPP40-17.5-1.1/2	1.1	2900	12	17.5	18	21	2
LPP40-13-0.75/2	0.75	2900	10	13	15.5	16.5	2
LPP40-31-4/2	4	2900	26	31	38	35	2
LPP40-24.5-3/2	3	2900	24	24.5	36	28	2
LPP40-20.5-2.2/2	2.2	2900	23	20.5	35	25	2
LPP50-24-3/2	3	2900	30	24	36	29	2
LPP50-21-2.2/2	2.2	2900	24	21	35	25	2
LPP50-16-1.5/2	1.5	2900	22	16	32	19	2
LPP50-12-1.1/2	1.1	2900	20	12	26	15	2
LPP50-34-5.5/2	5.5	2900	35	34	50	42	2
LPP50-28-4/2	4	2900	30	28	43	33	2
LPP50-50-5.5/2	5.5	2900	12.5	50	26	54	5
LPP50-40-4/2	4	2900	12.5	40	26	42	5
LPP50-35-3/2	3	2900	12.5	35	20	40	5
LPP50-80-11/2	11	2950	12.5	80	26	81.5	2.5
LPP50-70-7.5/2	7.5	2950	12.5	70	20	73	2.5
LPP50-60-7.5/2	7.5	2950	12.5	60	20	63	2.5
LPP50-81-22/2	22	2950	50	81	59	88	4.8
LPP50-70-18.5/2	18.5	2950	50	70	59	78	4.8
LPP50-60-15/2	15	2950	50	60	59	67	4.8
LPP65-35-7.5/2	7.5	2900	55	35	70	39	2.5
LPP65-28-5.5/2	5.5	2900	50	28	70	30	2.5
LPP65-21-4/2	4	2900	45	21	60	24	2.5
LPP65-17-3/2	3	2900	40	17	56	20	2.5
LPP65-14-2.2/2	2.2	2900	35	14	50	17	2
LPP65-56-18.5/2	18.5	2950	70	56	86	61	3
LPP65-49-15/2	15	2950	65	49	80	53	3
LPP65-40-11/2	11	2950	56	40	80	43	2.5
LPP80-20-5.5/2	5.5	2900	70	20	90	25	3.5
LPP80-17-4/2	4	2900	64	17	79	21	3.2
LPP80-14-3/2	3	2900	55	14	75	17	3
LPP80-10.5-2.2/2	2.2	2900	52	10.5	70	14	3
LPP80-8.5-1.5/2	1.5	2900	45	8.5	65	10.5	3
LPP80-35-15/2	15	2950	110	35	130	42	4.5
LPP80-28-11/2	11	2950	100	28	125	35	4.5
LPP80-21.5-7.5/2	7.5	2950	90	21.5	119	28	4
LPP80-80-22/2	22	2950	50	80	70	86	2.8
LPP80-70-18.5/2	18.5	2950	45	70	65	75	2.8
LPP80-60-15/2	15	2950	40	60	60	63	2.8
LPP100-32-22/2	22	2950	170	32	190	43	6.5
LPP100-30-18.5/2	18.5	2950	160	30	179	38	6.5
LPP100-24-15/2	15	2950	150	24	180	31	6.5
LPP100-20-11/2	11	2950	135	20	175	28	6.5
LPP100-80-37/2	37	2950	100	80	130	86	3.5
LPP100-70-30/2	30	2950	90	70	120	76	3.5

Model	Power P2 (kW)	Rated Speed n (r/min)	Rated Flow Q (m³/h)	Rated Head (m)	Max. Flow Q (m³/h)	Max. Head H(m)	NPSHc (m)
LPP100-60-22/2	22	2950	80	60	96	64	3.5
LPP100-50-22/2	22	2950	100	50	140	56	3.5
LPP100-44-18.5/2	18.5	2950	90	44	140	47	3.5
LPP100-38-15/2	15	2950	85	38	130	43	3.5
LPP125-50-30/2	30	2950	160	50	190	58	5.5
LPP125-44-30/2	30	2950	150	44	190	52	5.5
LPP125-37.5-22/2	22	2950	135	37.5	180	45	5.5
LPP80-28-11/4	11	1480	90	28	120	31	2
LPP80-22-7.5/4	7.5	1480	80	22	100	24	2
LPP80-19-5.5/4	5.5	1480	68	19	80	21.5	2
LPP100-32-22/4	22	1480	170	32	213	36	2
LPP100-30-18.5/4	18.5	1480	160	30	208	33	2
LPP100-25-15/4	15	1480	155	25	186	28	2
LPP100-21-11/4	11	1480	130	21	170	23	2
LPP100-16-7.5/4	7.5	1480	115	16	150	19	2
LPP125-35-30/4	30	1480	200	35	279	40	2.5
LPP125-31-22/4	22	1480	170	31	260	34	2
LPP125-28-18.5/4	18.5	1480	155	28	249	30	2
LPP125-24-15/4	15	1480	140	24	230	27	2
LPP125-19-11/4	11	1480	125	19	209	22	2
LPP150-33-37/4	37	1480	300	33	390	37	3.5
LPP150-29-30/4	30	1480	280	29	360	32	3.5
LPP150-24.5-22/4	22	1480	250	24.5	324	28	3
LPP150-21.5-18.5/4	18.5	1480	230	21.5	290	23	3
LPP150-50-45/4	45	1480	200	50	260	52	2
LPP150-40-37/4	37	1480	200	40	260	44	2
LPP150-33-30/4	30	1480	200	33	300	36	3.5
LPP150-25-22/4	22	1480	200	25	260	28	3.5
LPP150-25-30/4	30	1480	300	25	360	31	4.1
LPP150-21-18.5/4	18.5	1480	200	21	260	24	3
LPP150-17-15/4	15	1480	200	17	260	20	3
LPP150-12.5-11/4	11	1480	200	12.5	260	16	3
LPP200-34-75/4	75	1480	600	34	659	41	5.5
LPP200-28-55/4	55	1480	560	28	656	32	5.5
LPP200-22.5-45/4	45	1480	521	22.5	662	27	5.25
LPP200-55-75/4	75	1480	300	55	420	61	5.5
LPP200-44-55/4	55	1480	280	44	360	50	5.5
LPP200-38-45/4	45	1480	262	38	340	45	5.5
LPP200-32-37/4	37	1480	245	32	320	38	5.5
LPP250-50-110/4	110	1480	550	50	715	58	4.7
LPP250-44-90/4	90	1480	500	44	650	50	4.7
LPP250-37-75/4	75	1480	460	37	645	44	4.7
LPP200-36-75/4	75	1480	500	36	650	40	4.8
LPP200-18-37/4	37	1480	500	18	600	23	5.4
LPP200-15-30/4	30	1480	500	15	600	20	5.4
LPP200-18-18.5/4	18.5	1480	300	18	390	20	3.5
LPP200-15-15/4	15	1480	300	15	390	18	3.5
LPP250-50-132/4	132	1480	630	50	760	60	5.8
LPP250-40-110/4	110	1480	630	40	760	53	5.8

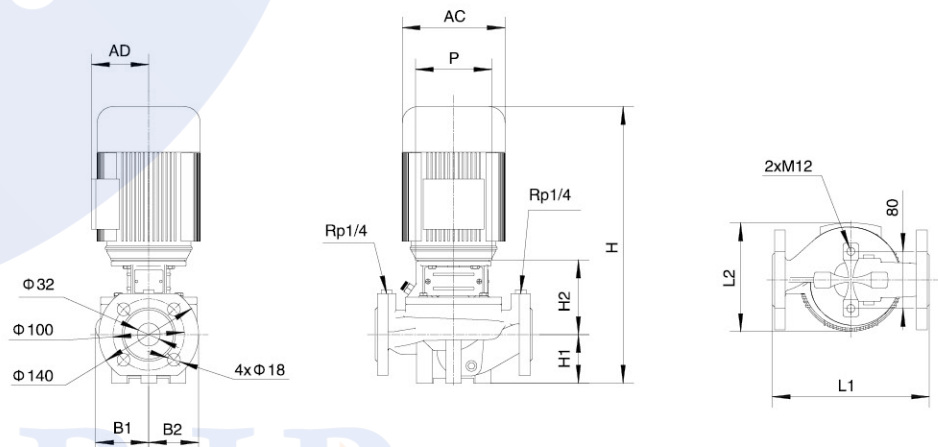
Hydraulic Performance Curves



Hydraulic Performance Curves

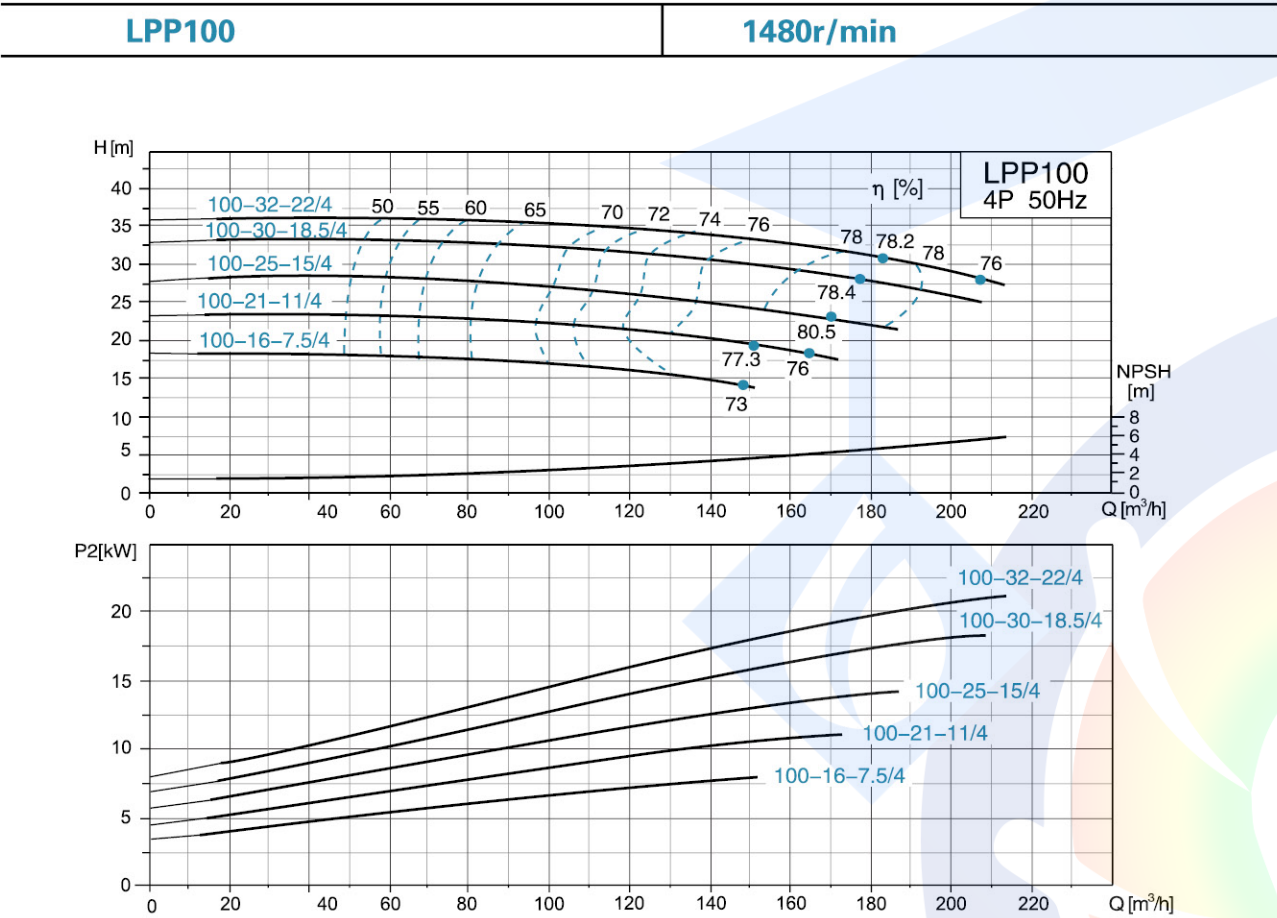


Dimension Drawing

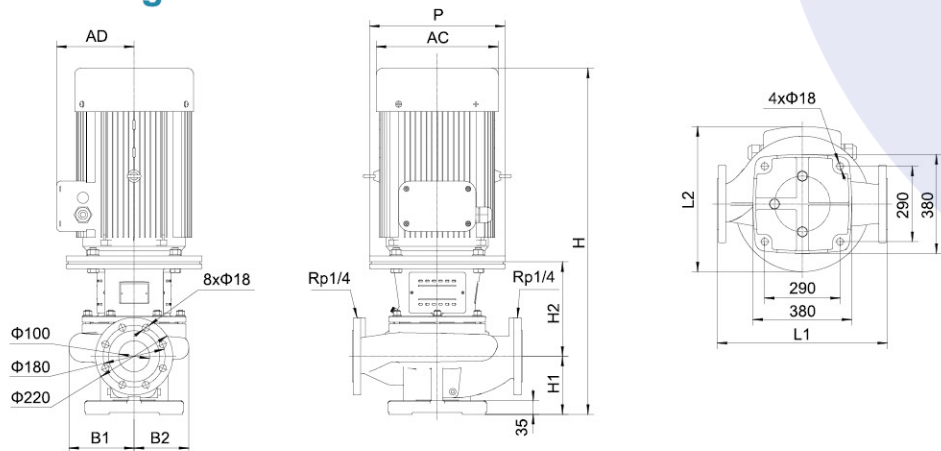


Model	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	B1 (mm)	B2 (mm)	P (mm)	AD (mm)	AC (mm)
LPP32-8-0.37/2	220	175	386	68	104.5	75	70	105	105	130
LPP32-4-0.37/2										

Hydraulic Performance Curves

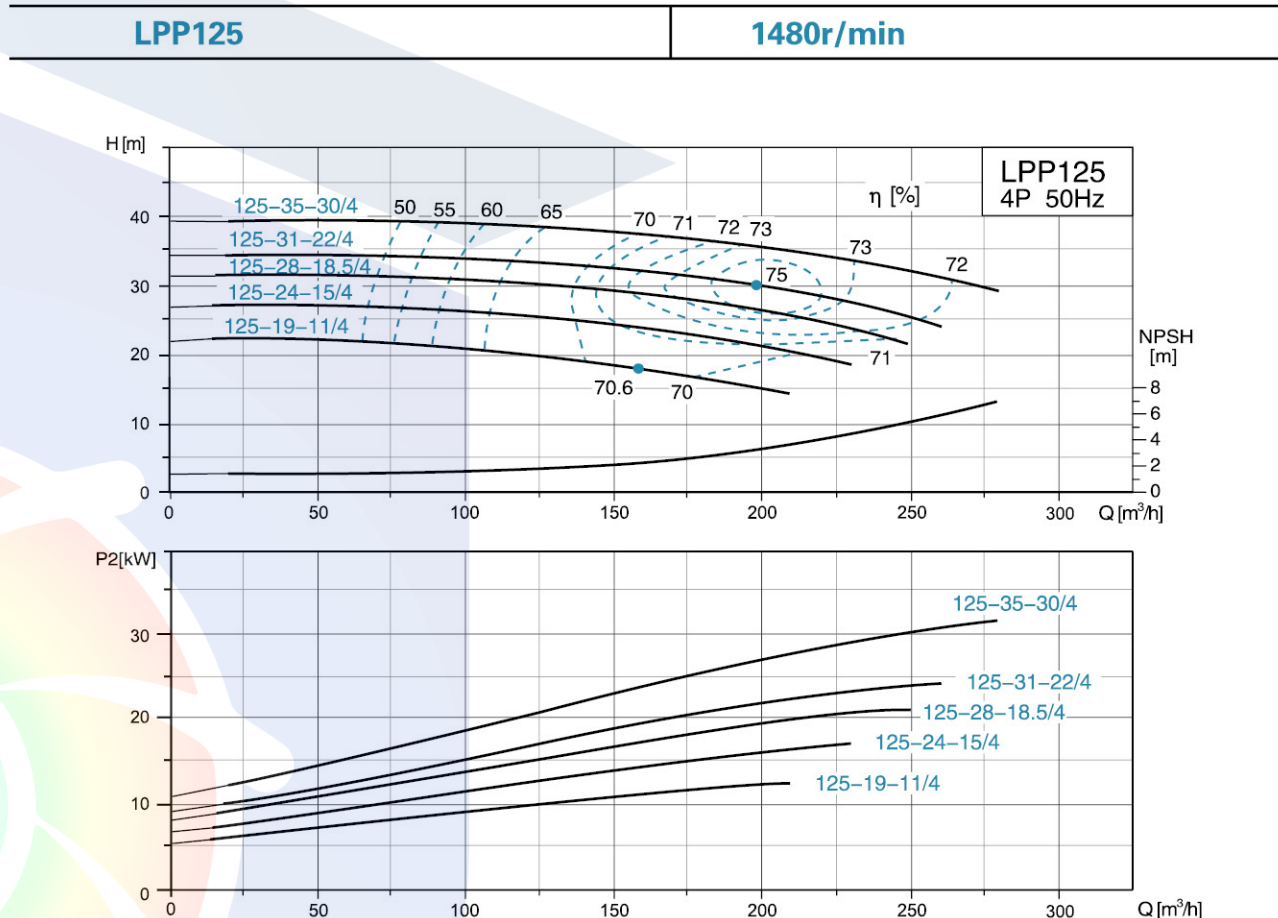


Dimension Drawing

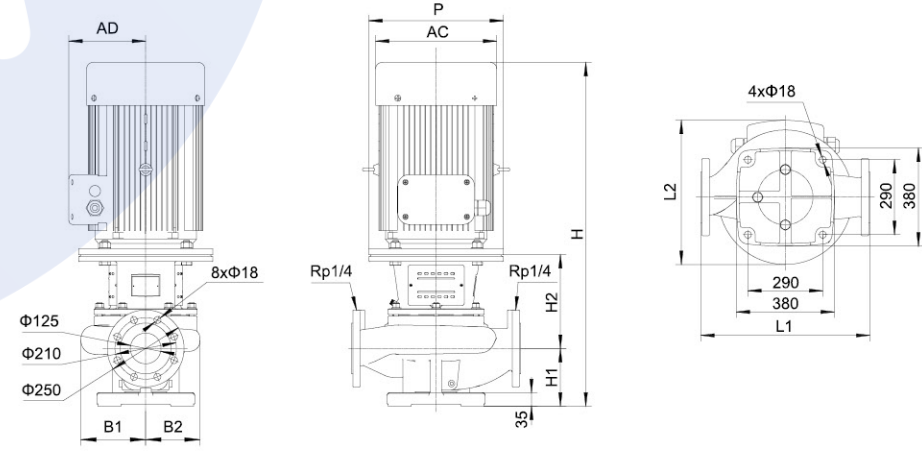


Model	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	B1 (mm)	B2 (mm)	P (mm)	AD (mm)	AC (mm)
LPP100-32-22/4	670	499	1122	210	277	253	219	350	280	380
LPP100-30-18.5/4	670	499	1077	210	277	253	219	350	280	380
LPP100-25-15/4	670	469	1047	210	277	253	219	350	250	330
LPP100-21-11/4	670	472	997	210	277	253	219	350	250	330
LPP100-16-7.5/4	670	472	952	210	247	253	219	300	175	254

Hydraulic Performance Curves



Dimension Drawing



Model	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	B1 (mm)	B2 (mm)	P (mm)	AD (mm)	AC (mm)
LPP125-35-30/4	800	533	1190	250	280	265	228	400	305	420
LPP125-31-22/4	800	508	1160	250	275	265	228	350	280	380
LPP125-28-18.5/4	800	508	1115	250	275	265	228	350	280	380
LPP125-24-15/4	800	493	1085	250	275	265	228	350	250	330
LPP125-19-11/4	800	493	1035	250	275	265	228	350	250	330



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مشاوره - طراحی - اجراء

تاسیسات مکانیکی (موتورخانه - استخر)
تهویه و تخلیه دود
سیستم‌های پمپاژ
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اطفاء حریق

سرمایش و گرمایش موتورخانه
نرم افزار فنی و مهندسی
استخر، سونا و جکوزی
سیستم‌های پمپاژ

تهران، سعدی شمالی، خیابان مرادی نور، پلاک ۳۱

تلفن: ۰۲۱-۷۷۶۸۶۹۶۶ فکس: ۰۲۱-۷۷۶۷۸۶۵۹

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