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V201911
Wilo-NLB/1911/EN/CHN

楼宇, 市政供水及一般工业

Wilo-NLB

卧式端吸离心泵

威乐（中国）水泵系统有限公司

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“威乐，
值得信赖的
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威乐卧式端吸泵NLB系列，遵循威乐百年制泵理念，产品安全、高效、环保。叶轮可根据客户使用环境采用铸铁、球铁、青铜或不锈钢材质。水泵与电机之间采用直联方式，整体结构更加紧凑。水封选用弹簧式机械密封，具有定位准确，可靠性高，方便维护等特点。NLB系列卧式端吸泵可广泛应用于供热、空调系统、循环系统、供水系统、消防喷淋系统等。

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Wilo-NLB

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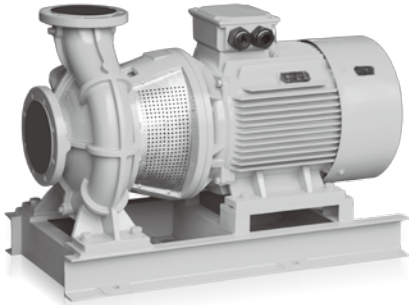
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Series description Wilo-NLB 系列说明



Wilo-NLB

Monoblock pump, install dimensions and hydraulics are in accordance with DIN EN 733

Application

- Pumping clean or slightly contaminated water (max. 20 ppm) without solid matter for circulation, transfer and pressure boosting purposes.
- Pumping heating water in accordance with VDI 2035, water-glycol mixtures, cooling/cold water, sea water and industrial water.
- Applications in municipal water supply, irrigation, building services, general industry, power stations, etc.

Scope of delivery

- Pump assembly composed by shaft, motor and baseplate
- Pump assembly composed by shaft, motor and Iron cushion
- Pump assembly composed by shaft and motor
- Installation and operation instructions

Type key

Example	NLB 40/160-4/2
NLB	Monoblock pump
40	Nominal diameter in DN
160	Nominal impeller diameter
4	Nominal motor power P_2 in kW
2	Number of poles

Wilo-NLB

紧凑型卧式端吸离心泵，安装尺寸和性能符合DIN EN 733标准

应用

- 泵送洁净或不含固体颗粒的微污染水（最大 20 ppm），用于循环，输送和增压供水。
- 泵送水质要求符合 VDI 2035 标准的热热水，水 - 乙二醇混合液，冷却水 / 冷水，海水和工业用水。
- 应用在市政供水，灌溉，楼宇，一般工业，电站等。

供货范围

- 由泵头、电机和底座组成的整泵
- 由泵头、电机和垫铁组成的整泵
- 由泵头和电机组成的整泵
- 安装及操作维护说明书

型号

例	NLB 40/160-4/2
NLB	紧凑型卧式端吸离心泵
40	公称直径 DN
160	名义叶轮直径
4	电机额定功率 P_2 (kW)
2	电机极数

Series description Wilo-NLB 系列说明

Materials

- Pump housing
 - Cast iron spiral with anti-rotation ribs.
 - With axially aligned suction piece and radial pressure ports and cast assembly feet.
 - Installation dimensions and hydraulics are in accordance with DIN EN 733
 - Flange PN 16 in accordance with DIN 2533 (PN 25 as option)
- Standard mechanical shaft seal AQ1EGG for water up to 120

材质

- 泵体
 - 铸铁螺旋蜗壳。
 - 轴向进水，径向出水。
 - 安装尺寸和性能符合 DIN EN 733 标准
 - 法兰承压 PN 16 符合 DIN 2533 标准 (PN 25可选)
- 标准机械密封 AQ1EGG 最高允许水温 120

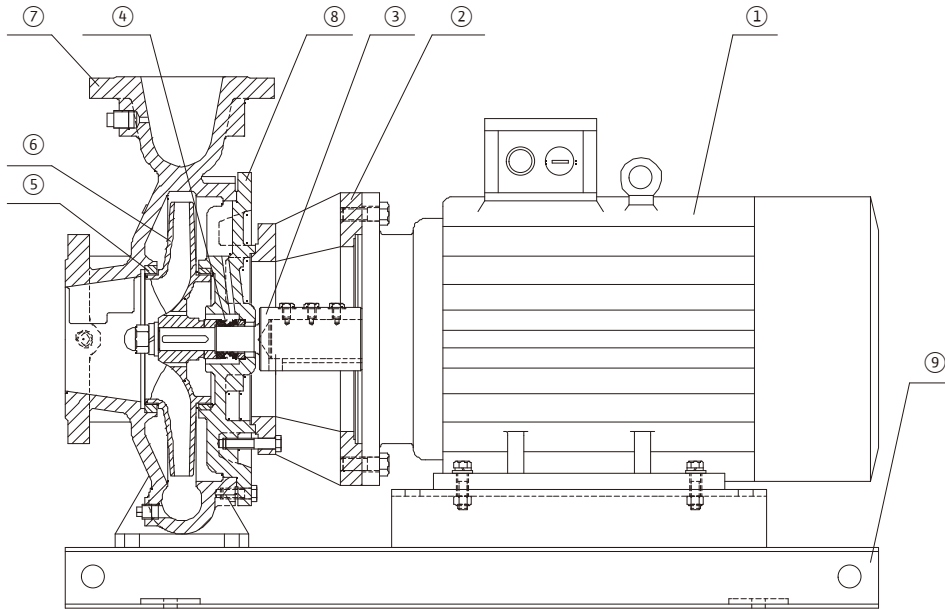
Design description

- For Wilo Monoblock Single Stage End Suction Centrifugal pump, the following methods for installation as options:
 - Standard option: Pump assembly with baseplate.
 - For the foundation with an extremely good flatness: Pump assembly with Iron cushion.
 - For the application on unit: Pump assembly only, without baseplate or Iron cushion.
- A compact structure due to integrated design and rigid coupling.
- Motor with thrust bearings to compensate the axial force caused by impeller.
- Variety materials on different applications as configurable selection.

设计说明

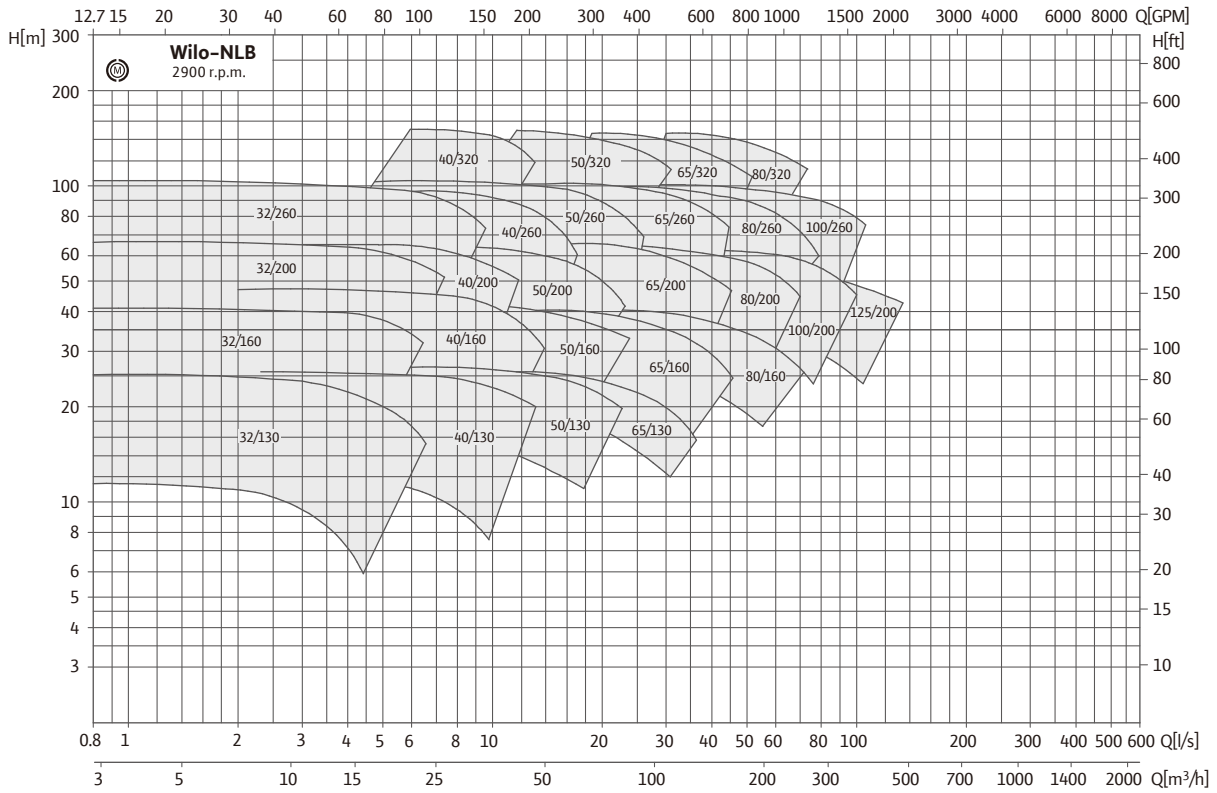
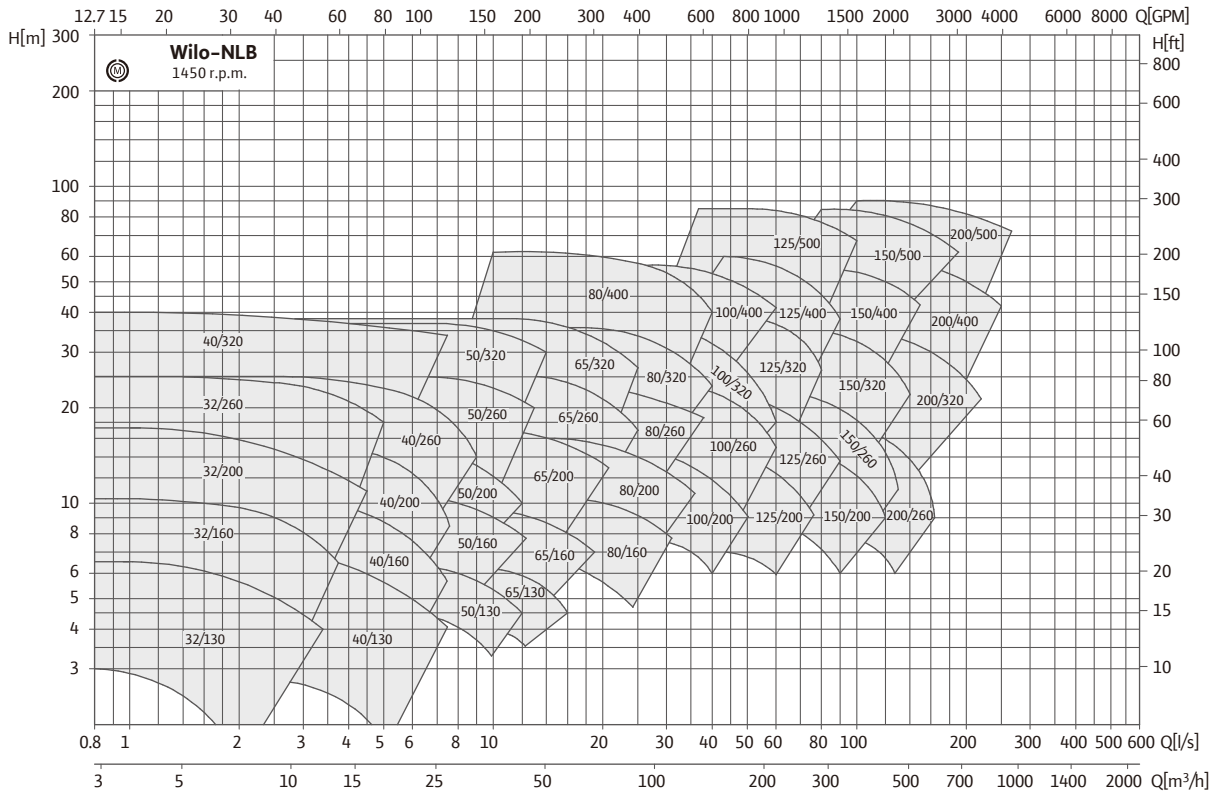
- 紧凑型卧式单级端吸离心泵，安装形式可以选择。
 - 带底板的整泵(标准安装方式)
 - 带垫铁的整泵(适用地面基础平面度较好的场合)
 - 不带底板和垫铁的整泵(适用机组和配套设备)
- 采用刚性联轴器一体化设计，结构更紧凑。
- 电机使用推力轴承，有效抵消叶轮轴向力影响。
- 多种材质可以选。

Section drawing 水泵结构图



1	Motor	电机	6	Impeller	叶轮
2	Lantern	连接架	7	Pump housing	泵体
3	Shaft	泵轴	8	Housing cover	泵盖
4	Mechanical seal	机械密封	9	Baseplate	底座
5	Wear ring	口环			

Series description Wilo-NLB 系列说明



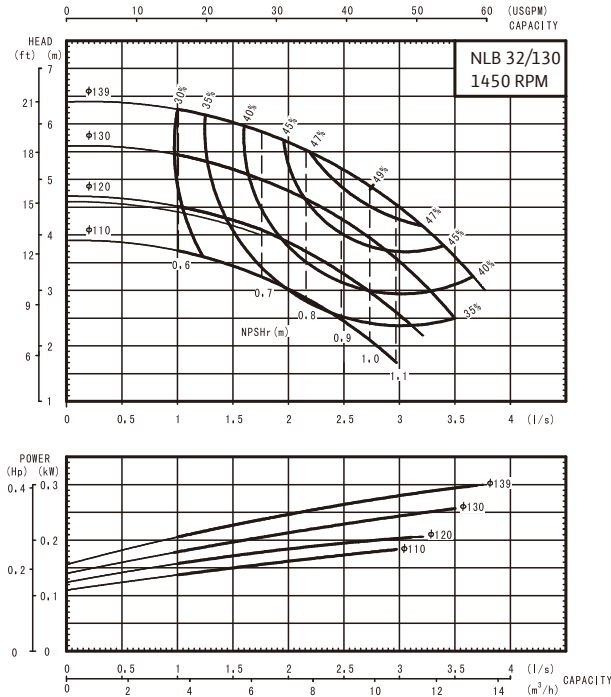
Technical data Wilo-NLB 技术参数		
		Wilo-NLB
Approved fluids (other fluids on request) 允许的输送介质(其他介质请来函咨询)		
Heating water (in acc. with VDI 2035) 供暖热水(符合 VDI 2035标准)		•
Cooling and cold water 冷却水和冷水		•
Water-glycol mixtures (for 20-40% vol. glycol and fluid temperature ≤ 40°C) 水-乙二醇混合液(乙二醇溶液体积含量20-40%,且温度≤ 40°C)		• (from 10 vol.% glycol; performance check required up to 50% glycol; mechanical seal on request) (乙二醇含量超过10%;性能参数需重新调整;溶液体积含量达50%;机械密封请来函咨询)
Permitted field of application 应用范围		
Max. operating pressure at fluid temperature of +120 [bar]	介质温度120 时最大工作压力 [bar]	≤ NLB 150/400 16 bar (25 bar 可选) ≥ NLB 150/500 12 bar (25 bar 可选)
Temperature range []	温度范围 []	-20 ~ +120 (此温度范围之外请特别咨询)
Max. ambient temperature []	最高环境温度 []	+40
Pipe connections 管路连接		
Nominal connection diameters DN on suction side: on pressure side:	连接管径 DN 进口端 出口端	50-250 32-200
Flanges (according to EN 1092-2)	法兰承压(符合 EN 1092-2)	PN16 / (PN 25 可选)
Materials 材质		
Pump housing (standard)	泵体 (标准)	• 灰铸铁
Pump housing (special version)	泵体 (特殊)	- 球墨铸铁、不锈钢
Lantern	连接架	• 灰铸铁
Impeller (standard)	叶轮(标准)	• 灰铸铁
Impeller (special version)	叶轮(特殊)	- 不锈钢、青铜、球墨铸铁
Wear ring (standard)	口环 (标准)	• 灰铸铁
Wear ring (special version)	口环 (特殊)	- 不锈钢、青铜
Pump shaft (standard)	泵轴 (标准)	• SS 420
Pump shaft (special version)	泵轴 (特殊)	- SS 431
Mechanical seal	机械密封	• AQ1EGG (carbon/silicon carbide/EPDM) 碳化硅/石墨
Other mechanical seals	其他机械密封	- on request (depending on the pumped liquid) 其他(来函咨询)
Electrical connection 电气连接		
Speed range [rpm]	转速 [rpm]	• 1450/2900
Motor/electronics 电机		
Factory standard IEC motor	IEC 电机	• Wilo
Protection class	防护等级	• IP55
Insulation class	绝缘等级	• F
PTC thermistor sensor	PTC 热敏电阻传感器	- tripping unit required 配继电器 (另需加价)
Motor protection required onsite	现场需配电机保护	- (To be provided for onsite installation) (现场由其它方提供)

Technical data Wilo-NLB 技术参数		Wilo-NLB
Energy efficiency class	能效等级	GB 18613-2012 CL 2 GB 18613-2012 能效 2
Speed control	转速控制	- Wilo control devices external frequency converter (additional charge) Wilo 控制装置,变频器 (另需加价)
Motor winding up to 3kW	电机绕组 ≤ 3kW	• 220 V / 380 VV, 20~50Hz
Motor winding from 4kW	电机绕组 ≥ 4kW	• 380 V / 660 VV, 25~50 Hz
Other voltages/frequencies	其他电压/频率	- Special version at additional charge 另需加价

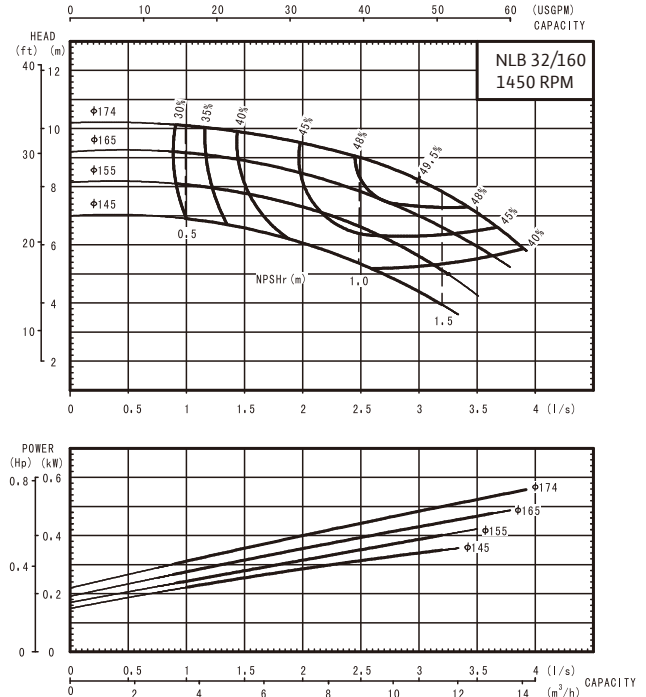
- = available 标准配置
- = not available 可选用

Pump curves Wilo-NLB (4-pole) 性能曲线

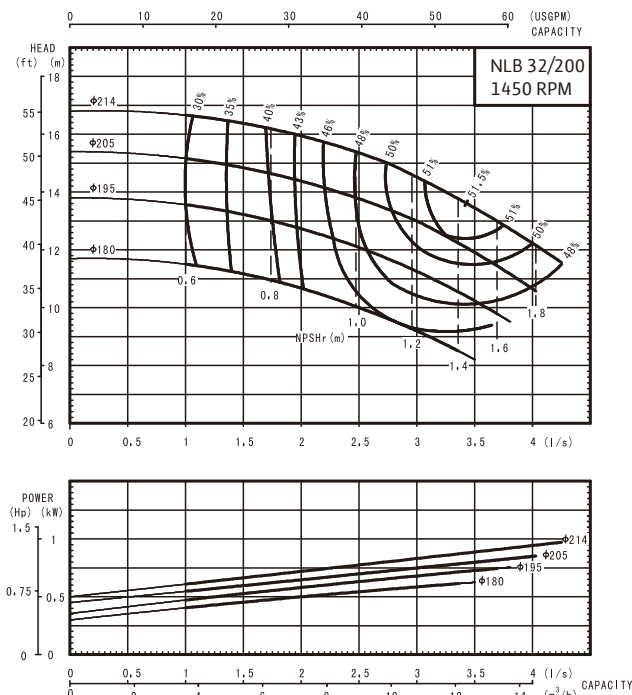
Wilo-NLB 32/130
Speed 1450 RPM



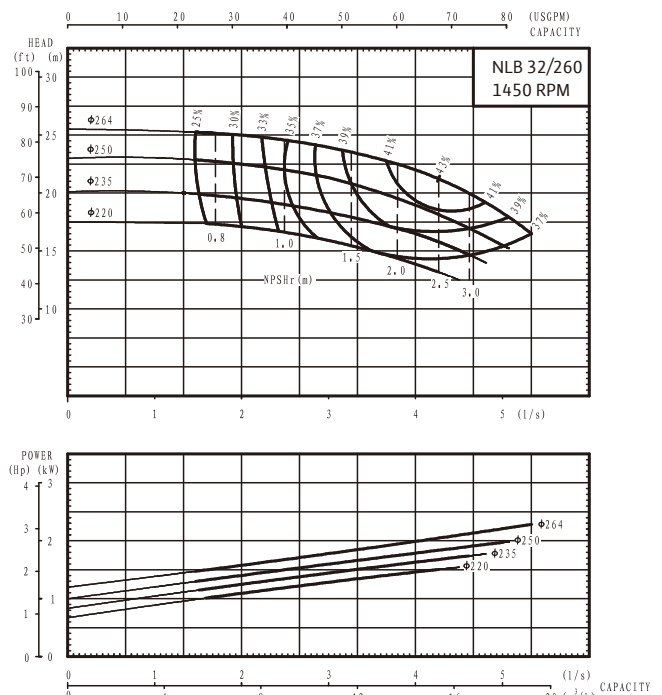
Wilo-NLB 32/160
Speed 1450 RPM



Wilo-NLB 32/200
Speed 1450 RPM



Wilo-NLB 32/260
Speed 1450 RPM

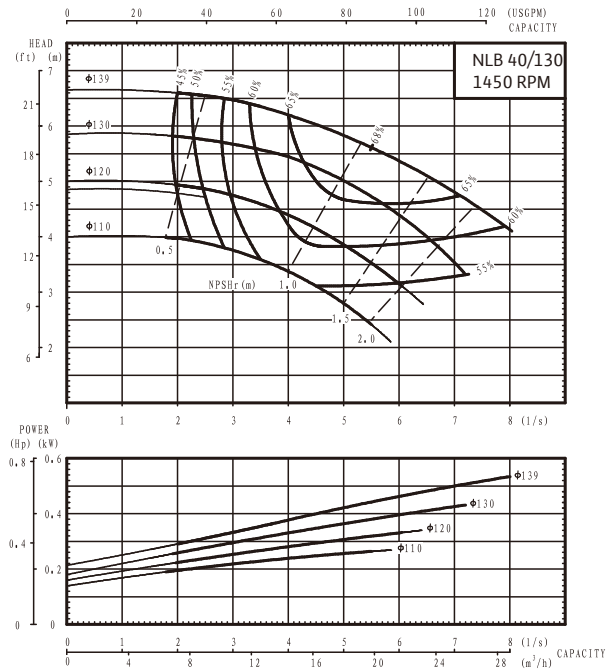


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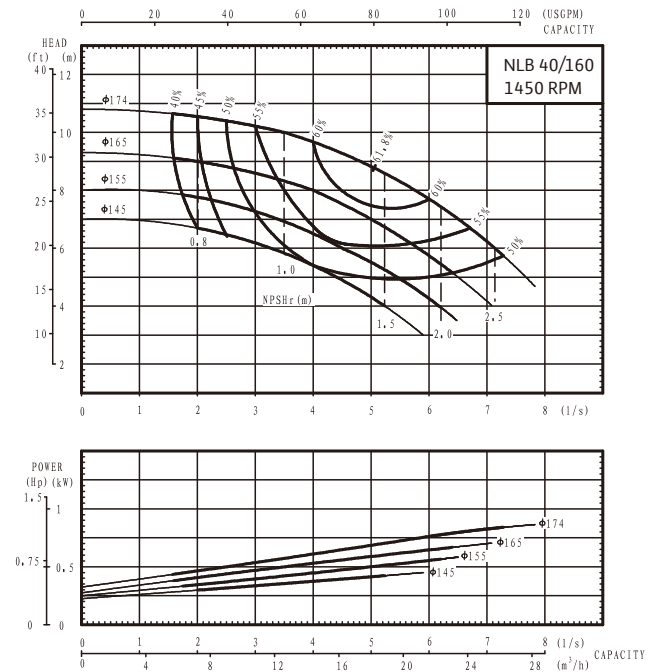
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Pump curves Wilo-NLB (4-pole) 性能曲线

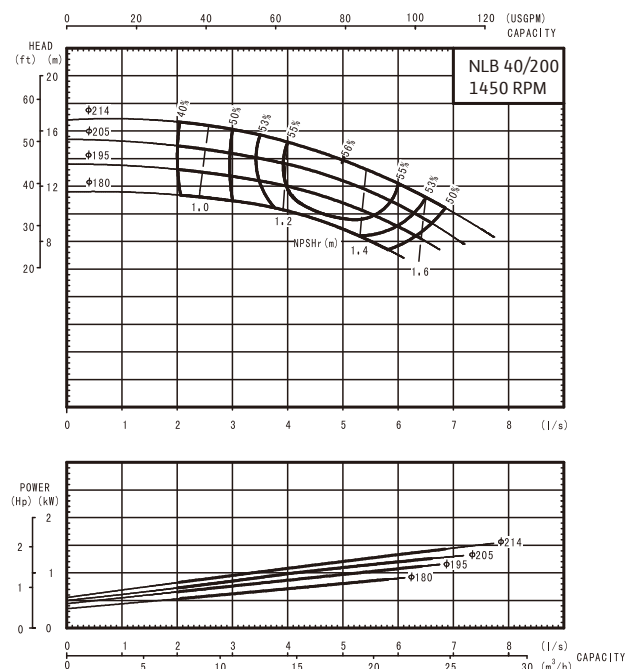
Wilo-NLB 40/130
Speed 1450 RPM



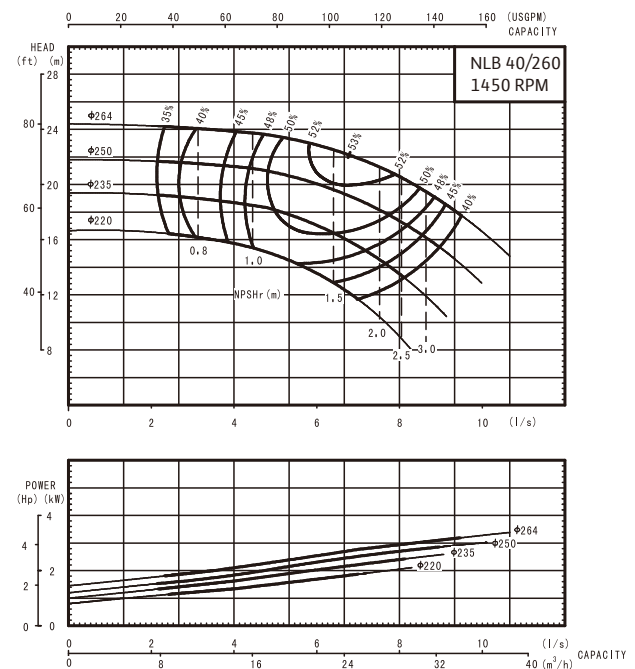
Wilo-NLB 40/160
Speed 1450 RPM



Wilo-NLB 40/200
Speed 1450 RPM

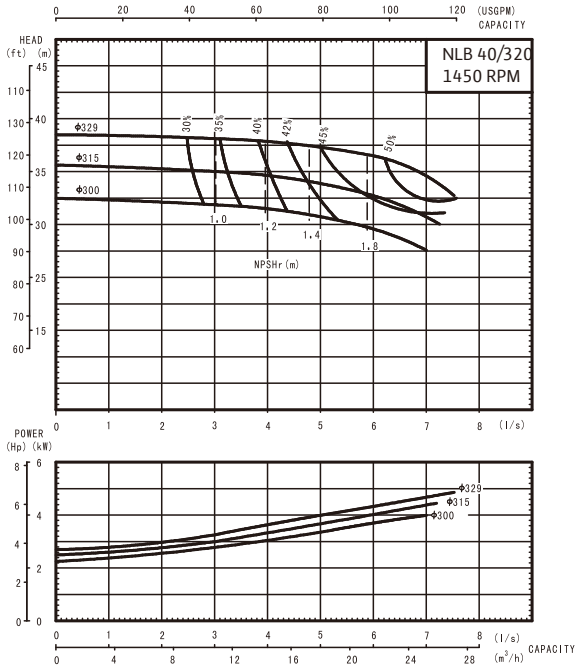


Wilo-NLB 40/260
Speed 1450 RPM

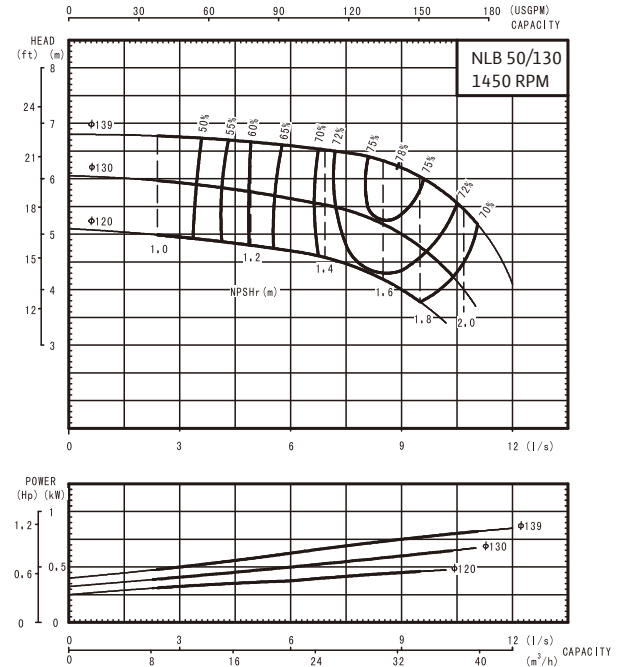


Pump curves Wilo-NLB (4-pole) 性能曲线

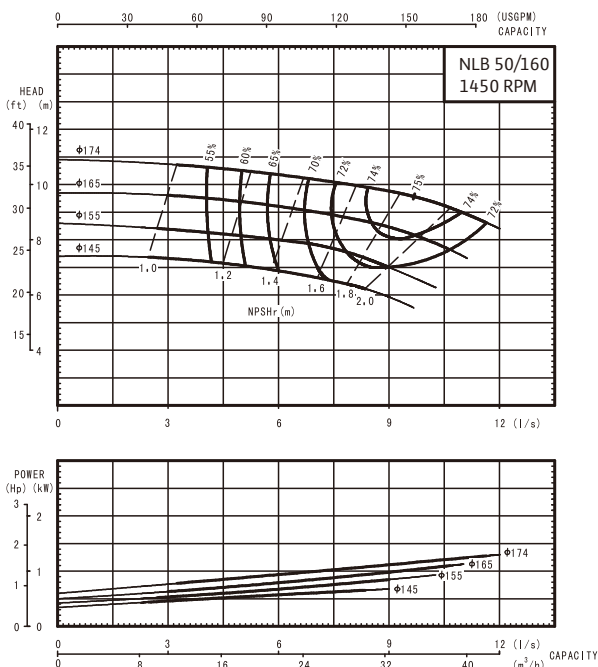
Wilo-NLB 40/320
Speed 1450 RPM



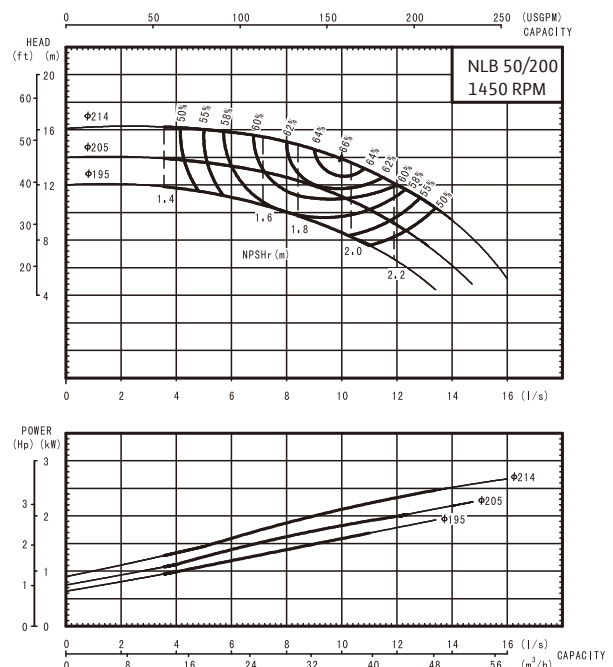
Wilo-NLB 50/130
Speed 1450 RPM



Wilo-NLB 50/160
Speed 1450 RPM



Wilo-NLB 50/200
Speed 1450 RPM

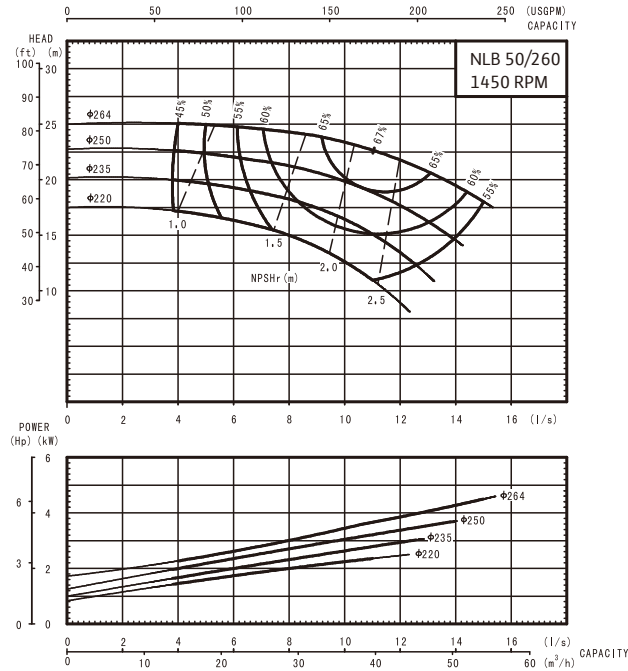


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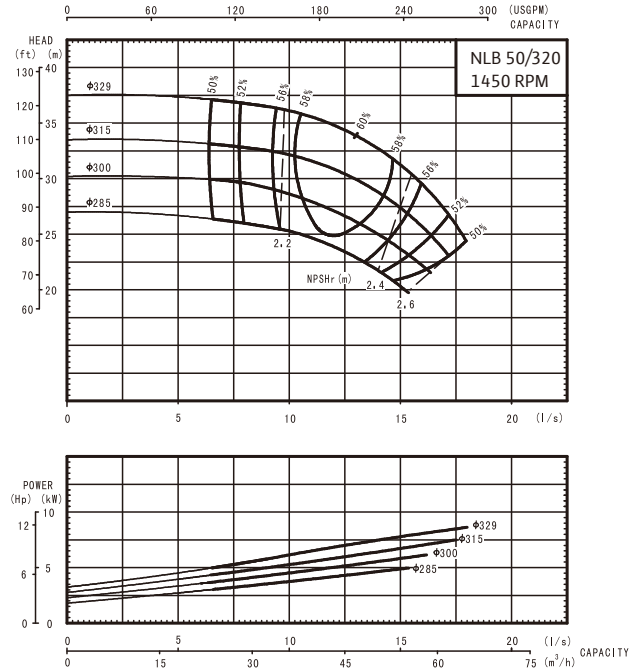
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Pump curves Wilo-NLB (4-pole) 性能曲线

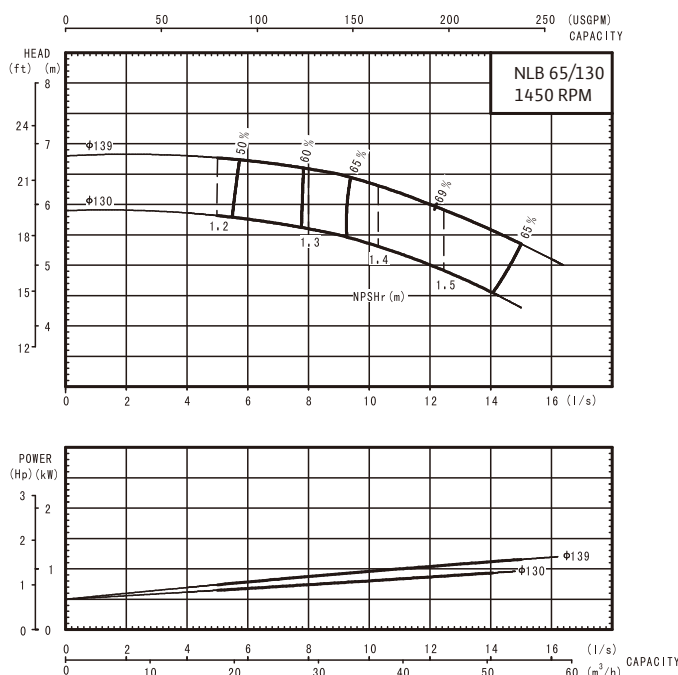
Wilo-NLB 50/260
Speed 1450 RPM



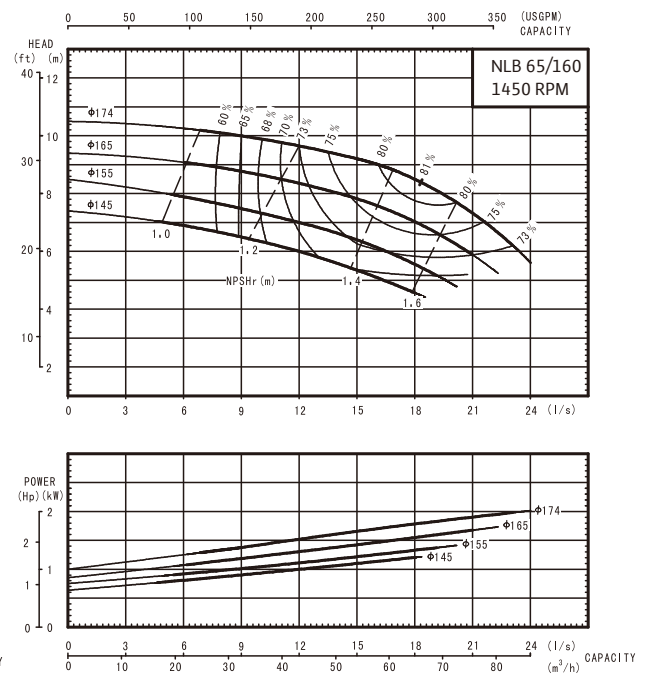
Wilo-NLB 50/320
Speed 1450 RPM



Wilo-NLB 65/130
Speed 1450 RPM

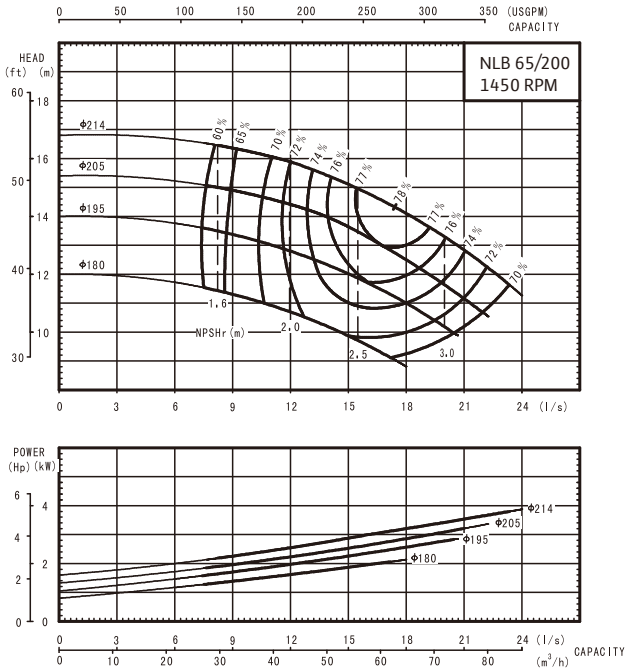


Wilo-NLB 65/160
Speed 1450 RPM

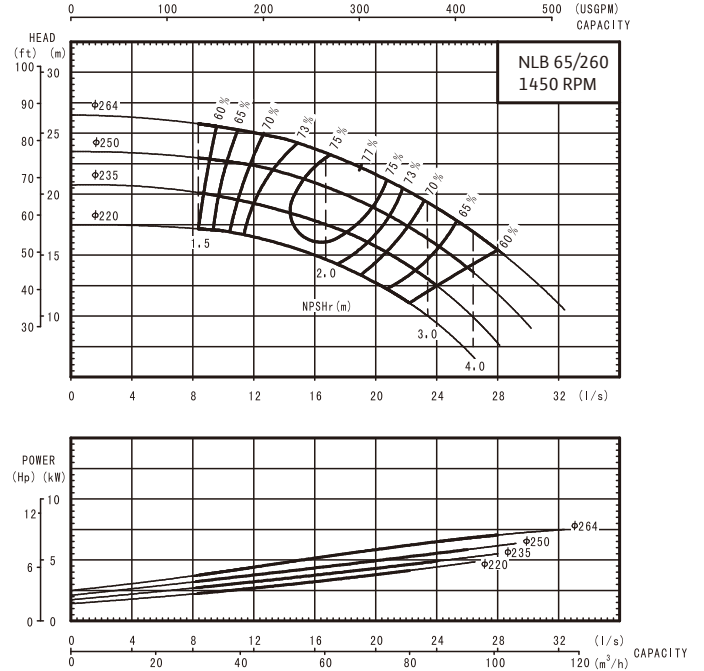


Pump curves Wilo-NLB (4-pole) 性能曲线

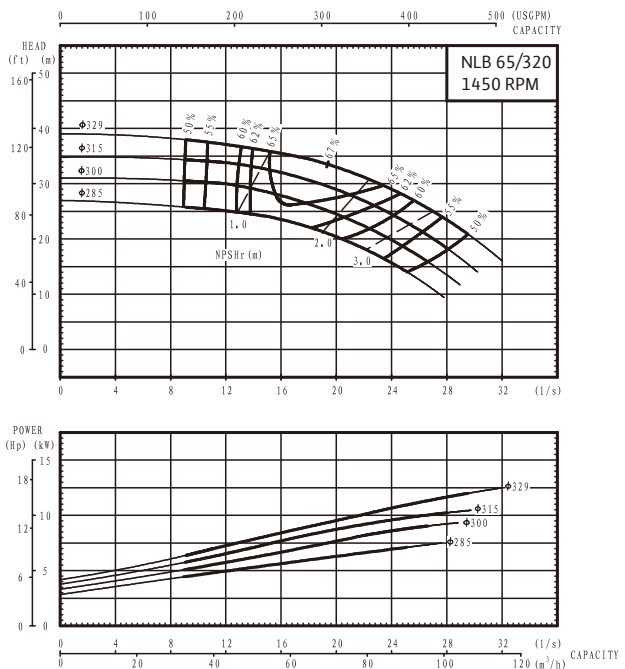
Wilo-NLB 65/200
Speed 1450 RPM



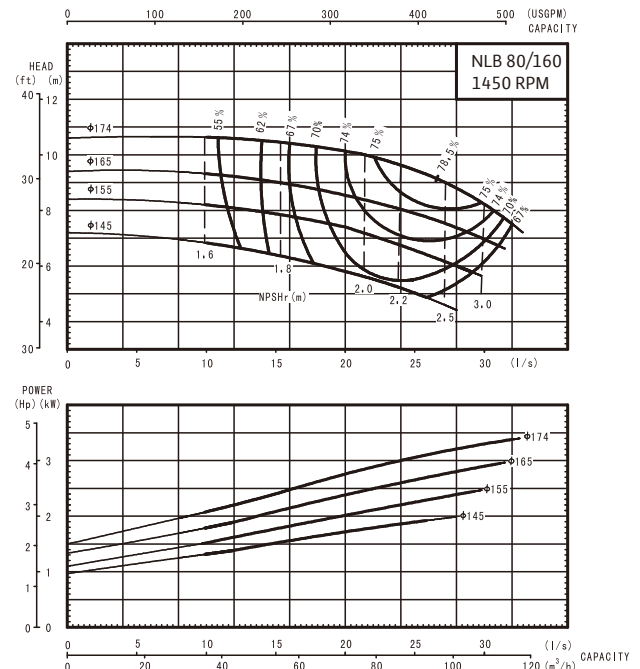
Wilo-NLB 65/260
Speed 1450 RPM



Wilo-NLB 65/320
Speed 1450 RPM



Wilo-NLB 80/160
Speed 1450 RPM

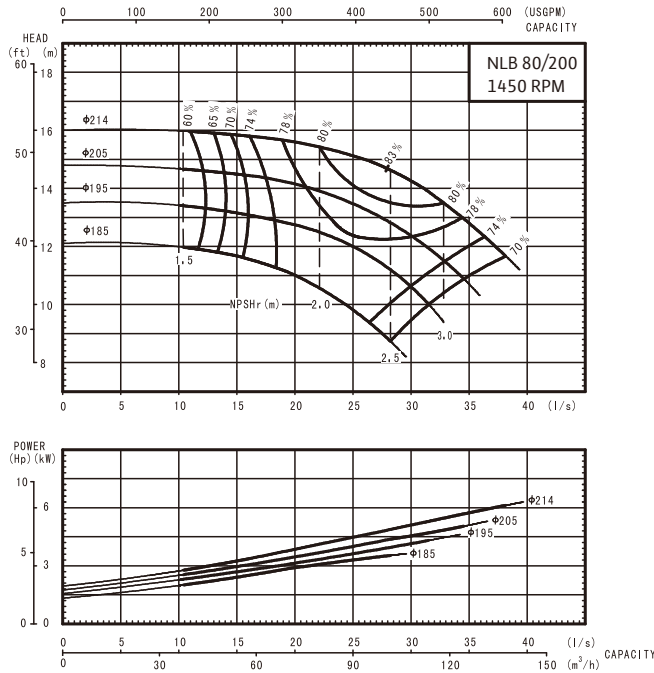


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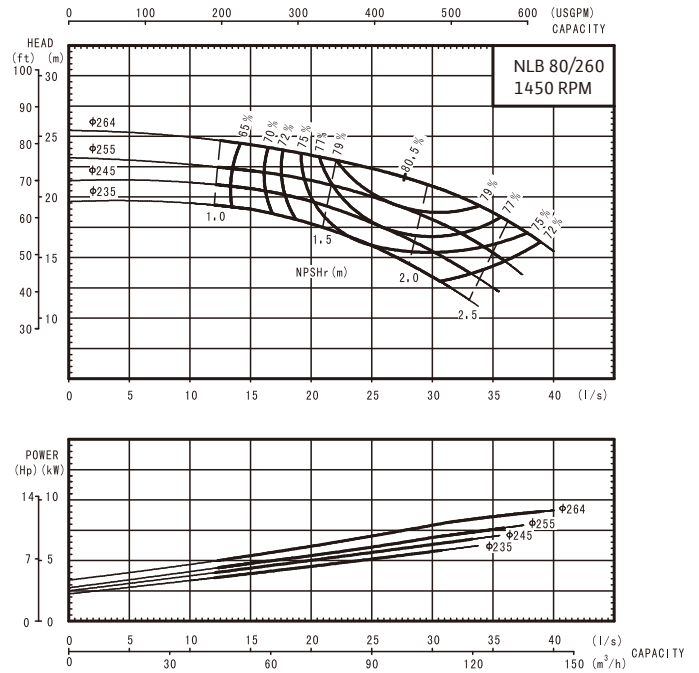
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Pump curves Wilo-NLB (4-pole) 性能曲线

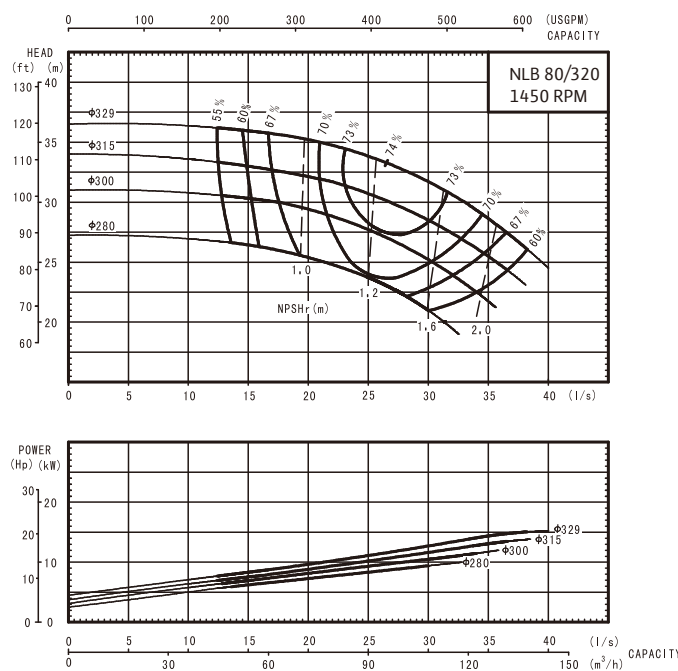
Wilo-NLB 80/200
Speed 1450 RPM



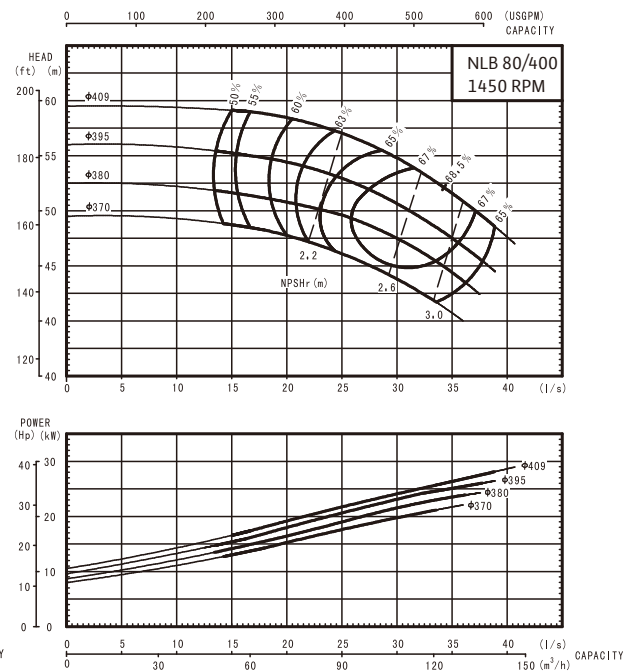
Wilo-NLB 80/260
Speed 1450 RPM



Wilo-NLB 80/320
Speed 1450 RPM

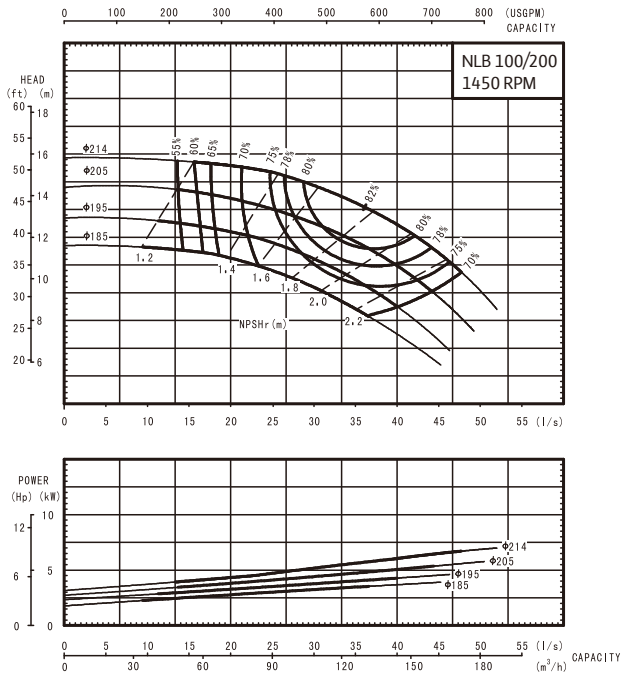


Wilo-NLB 80/400
Speed 1450 RPM

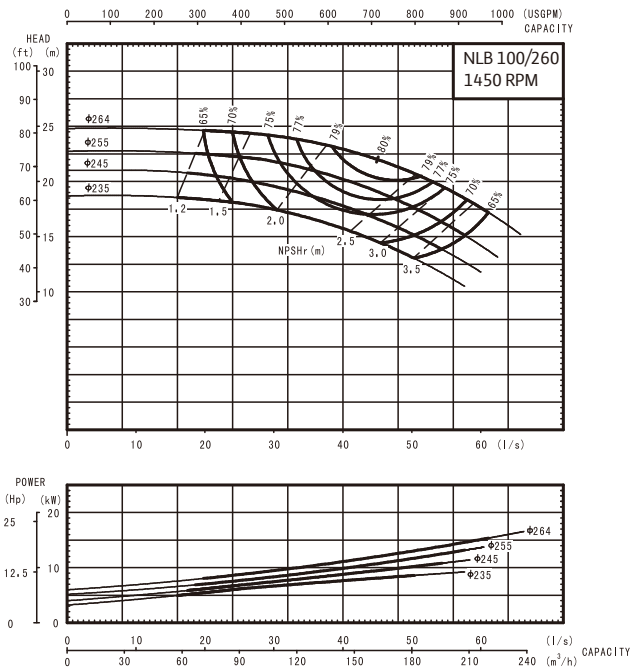


Pump curves Wilo-NLB (4-pole) 性能曲线

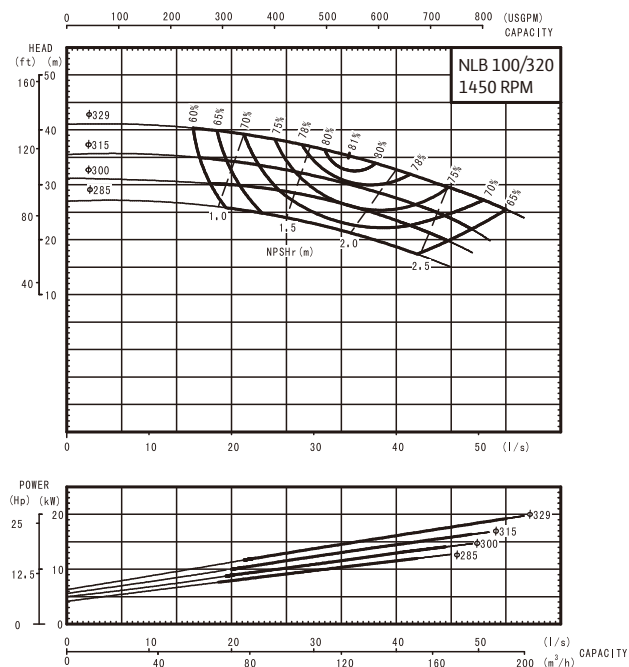
Wilo-NLB 100/200
Speed 1450 RPM



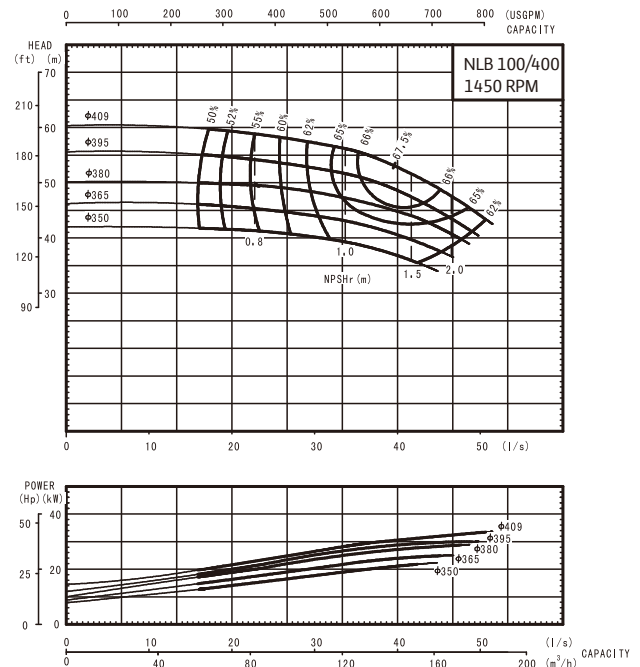
Wilo-NLB 100/260
Speed 1450 RPM



Wilo-NLB 100/320
Speed 1450 RPM



Wilo-NLB 100/400
Speed 1450 RPM



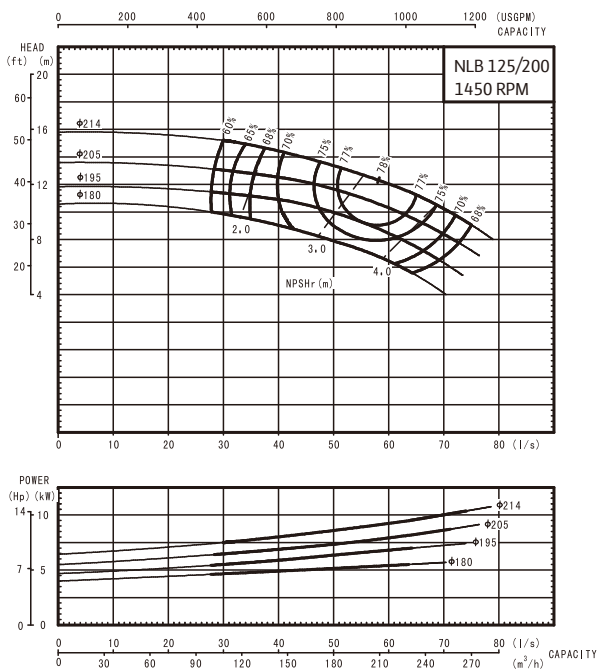
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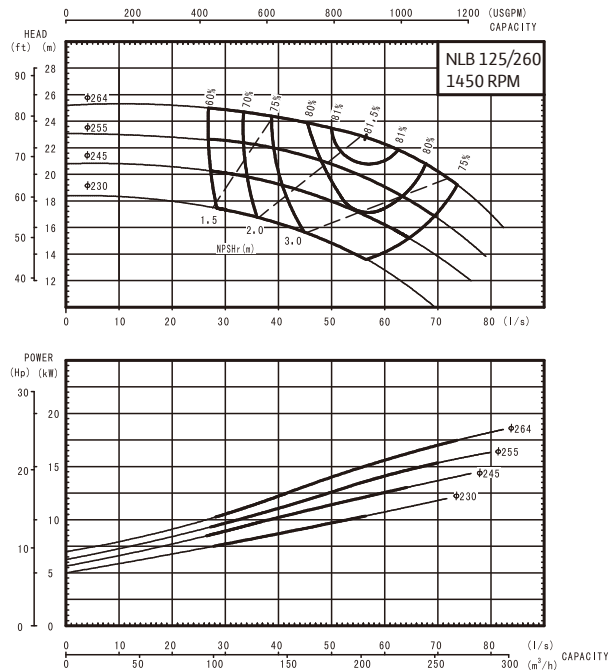
End-Suction Pumps
卧式端吸离心泵

Pump curves Wilo-NLB (4-pole) 性能曲线

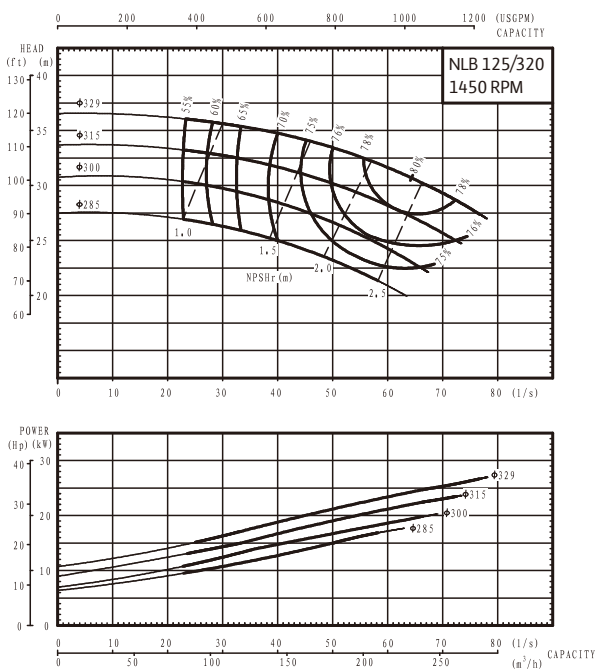
Wilo-NLB 125/200
Speed 1450 RPM



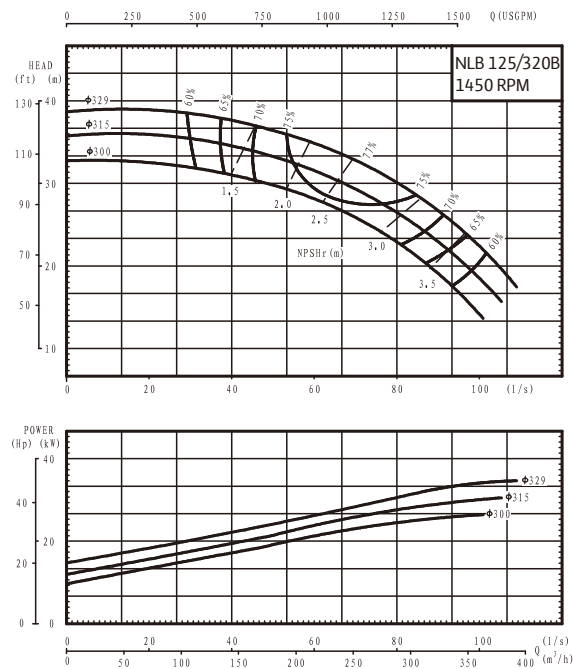
Wilo-NLB 125/260
Speed 1450 RPM



Wilo-NLB 125/320
Speed 1450 RPM

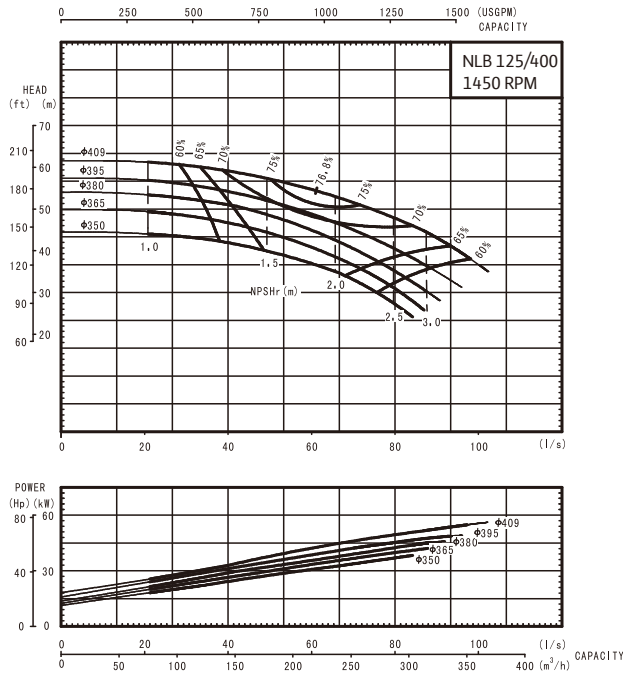


Wilo-NLB 125/320B
Speed 1450 RPM

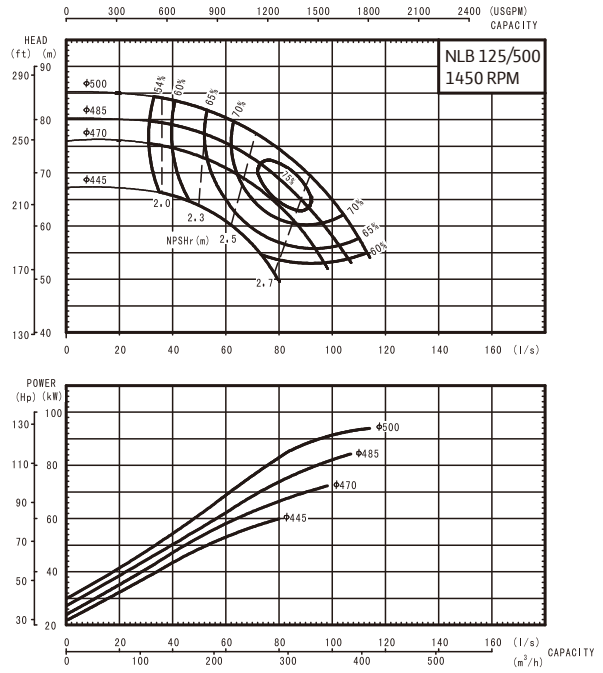


Pump curves Wilo-NLB (4-pole) 性能曲线

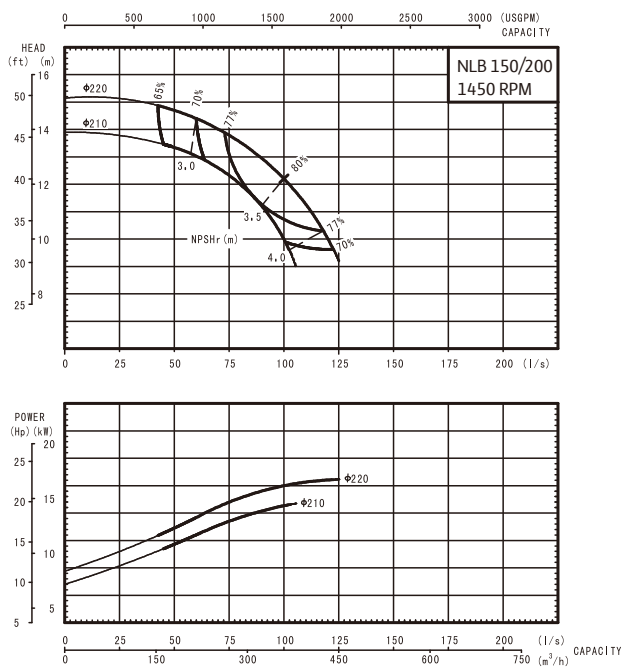
Wilo-NLB 125/400
Speed 1450 RPM



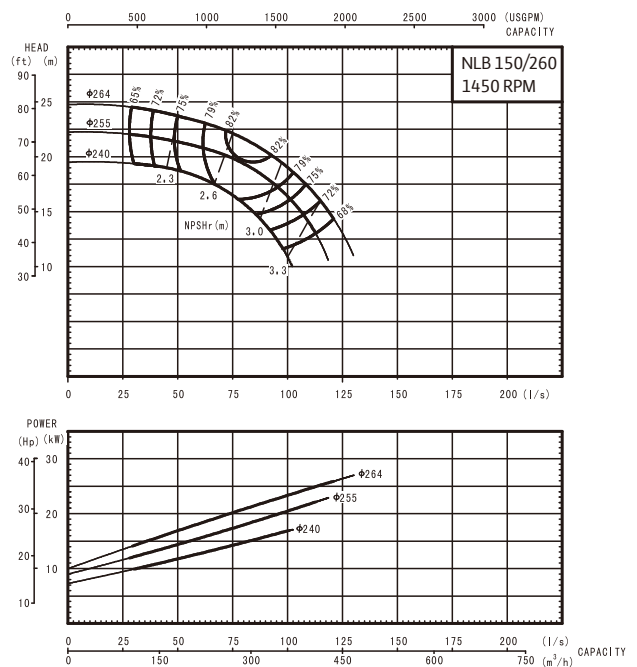
Wilo-NLB 125/500
Speed 1450 RPM



Wilo-NLB 150/200
Speed 1450 RPM



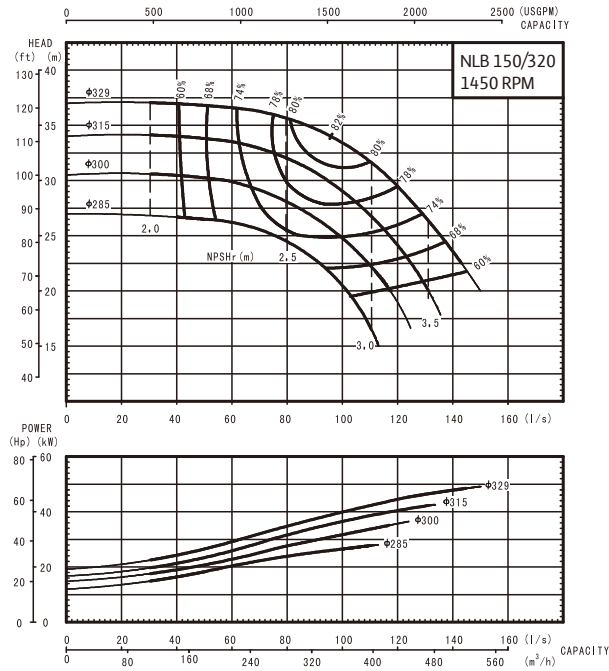
Wilo-NLB 150/260
Speed 1450 RPM



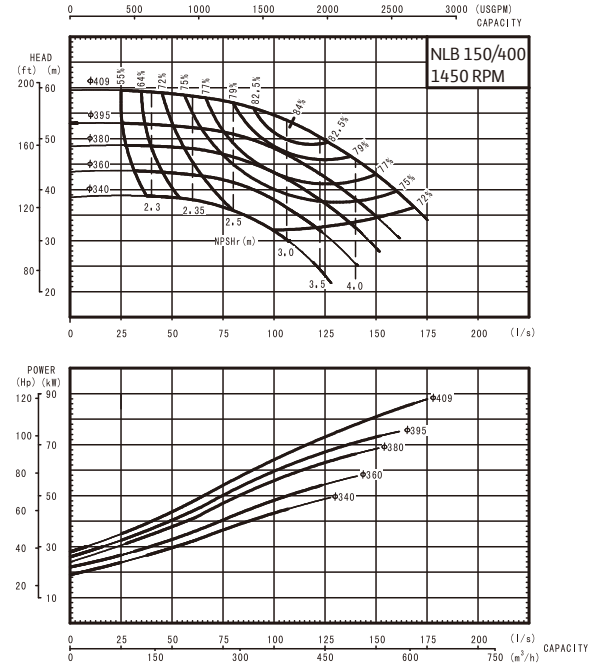
End-Suction Pumps
卧式端吸离心泵

Pump curves Wilo-NLB (4-pole) 性能曲线

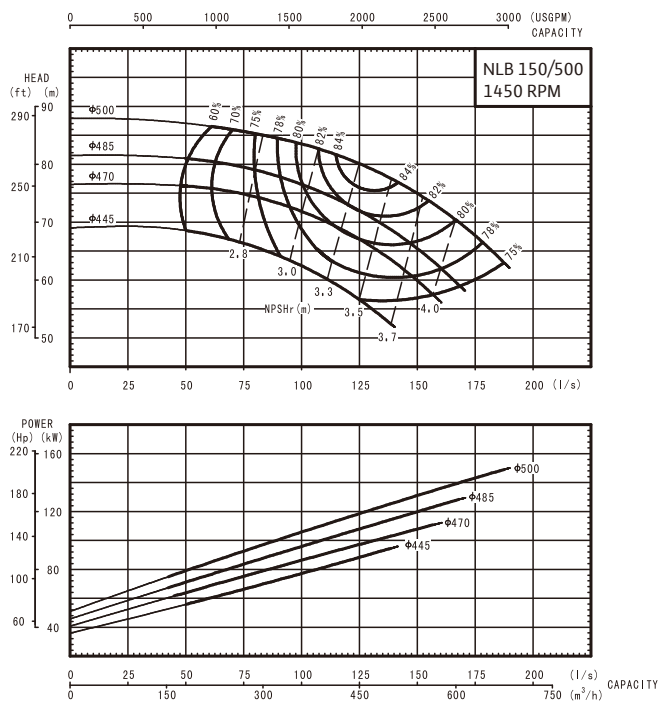
Wilo-NLB 150/320
Speed 1450 RPM



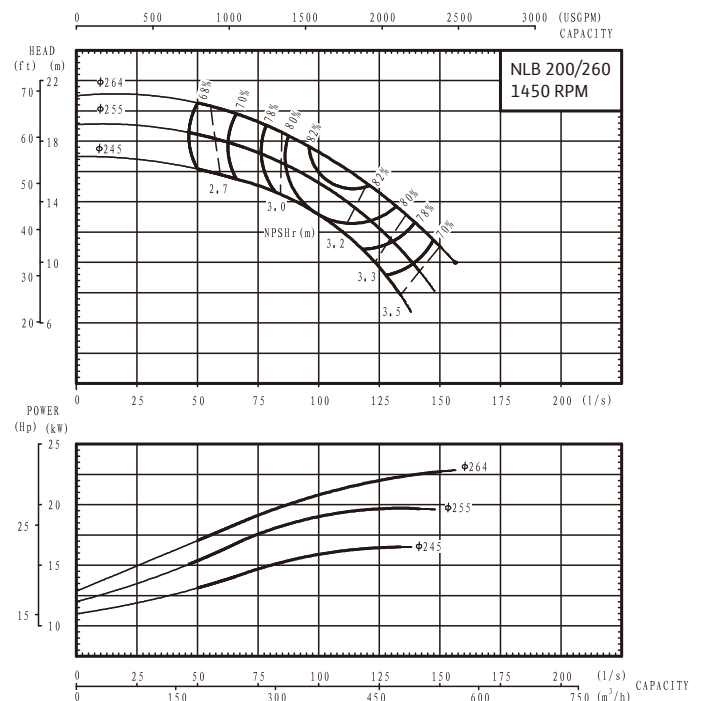
Wilo-NLB 150/400
Speed 1450 RPM



Wilo-NLB 150/500
Speed 1450 RPM



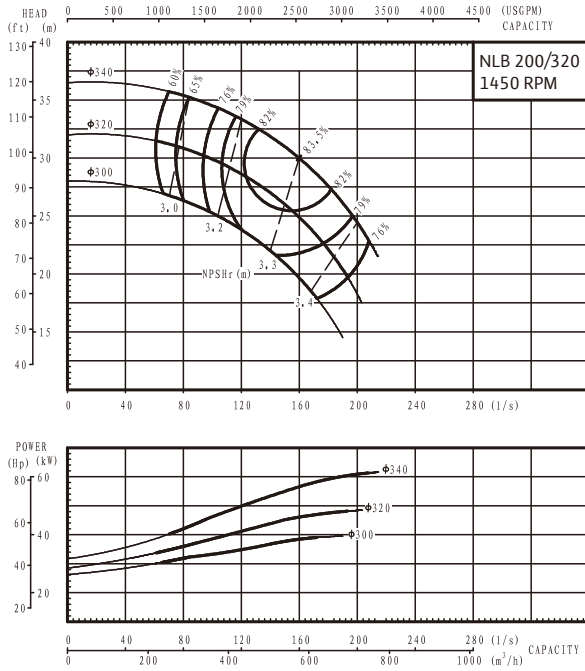
Wilo-NLB 200/260
Speed 1450 RPM



Pump curves Wilo-NLB (4-pole) 性能曲线

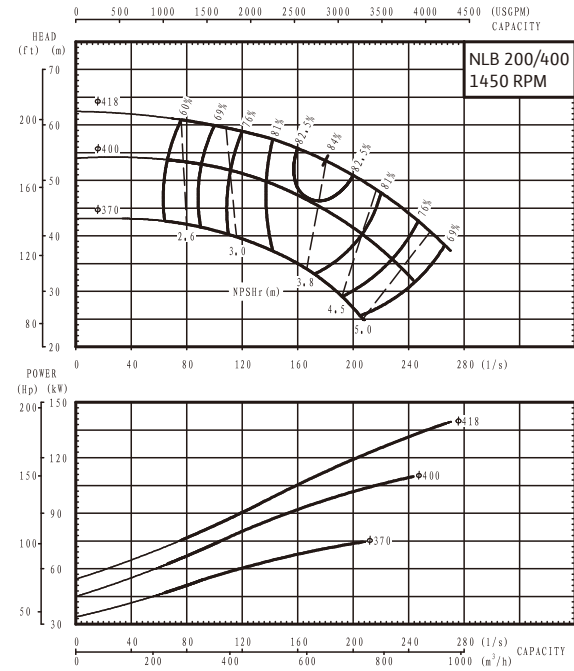
Wilo-NLB 200/320

Speed 1450 RPM



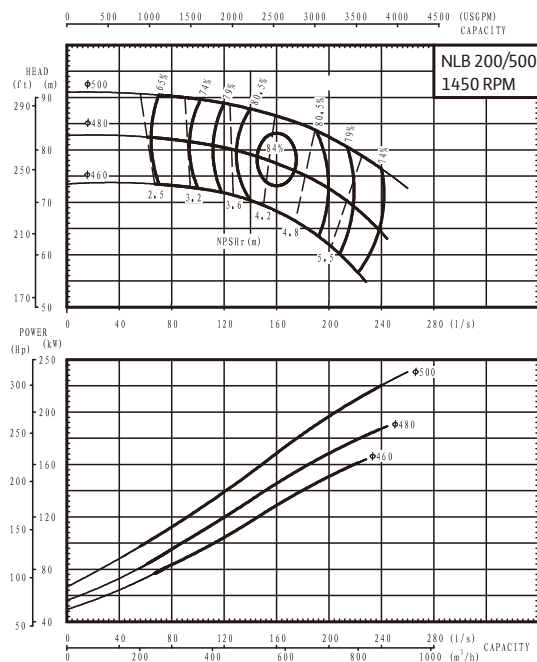
Wilo-NLB 200/400

Speed 1450 RPM



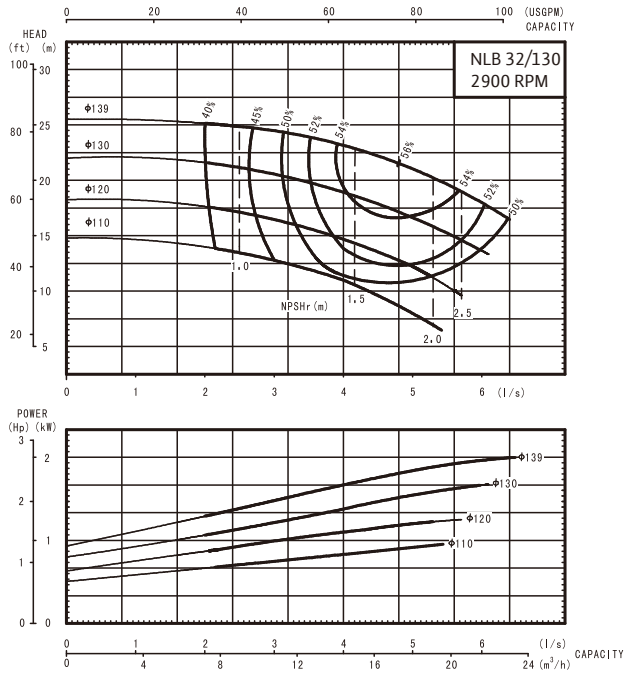
Wilo-NLB 200/500

Speed 1450 RPM

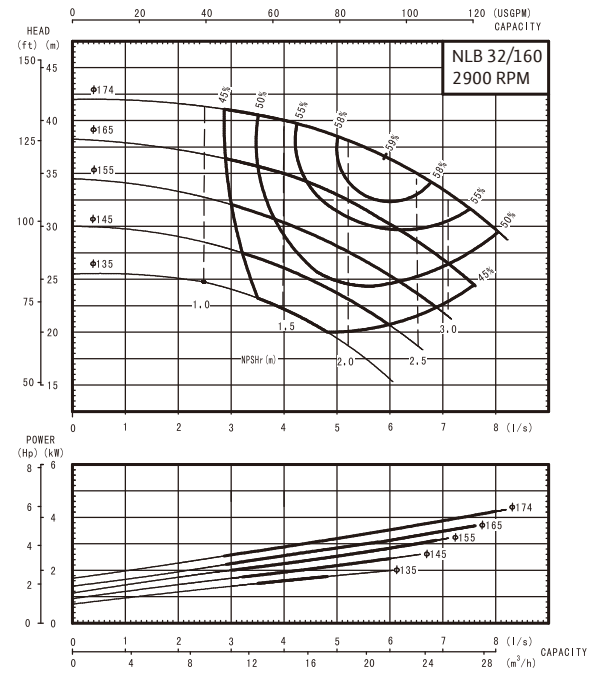


Pump curves Wilo-NLB (2-pole) 性能曲线

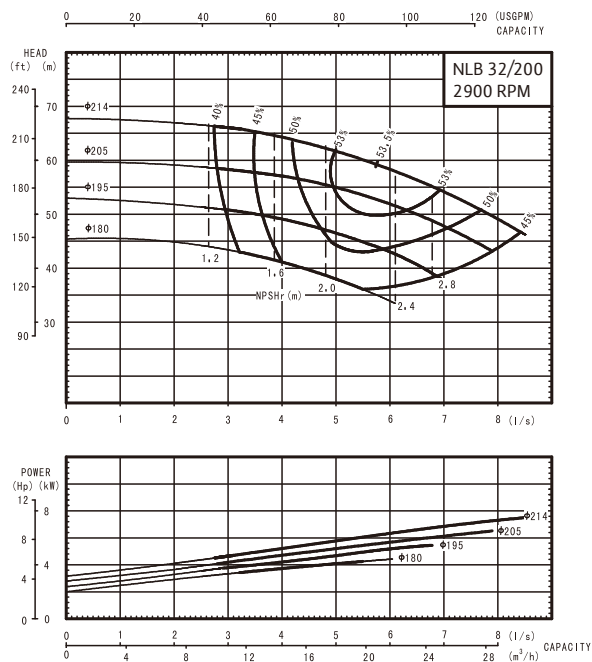
Wilo-NLB 32/130
Speed 2900 RPM



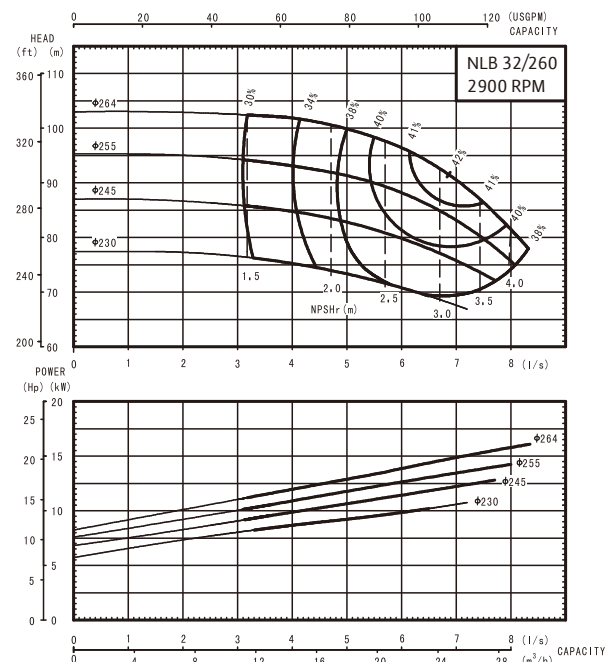
Wilo-NLB 32/160
Speed 2900 RPM



Wilo-NLB 32/200
Speed 2900 RPM

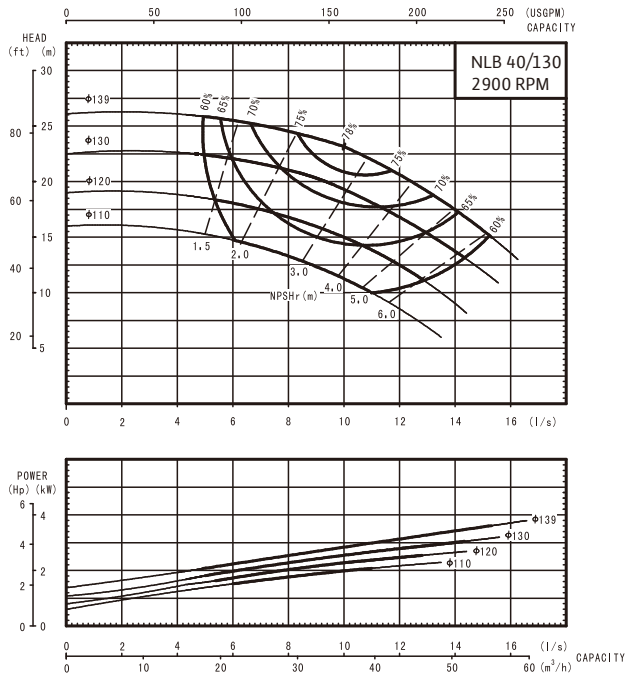


Wilo-NLB 32/260
Speed 2900 RPM

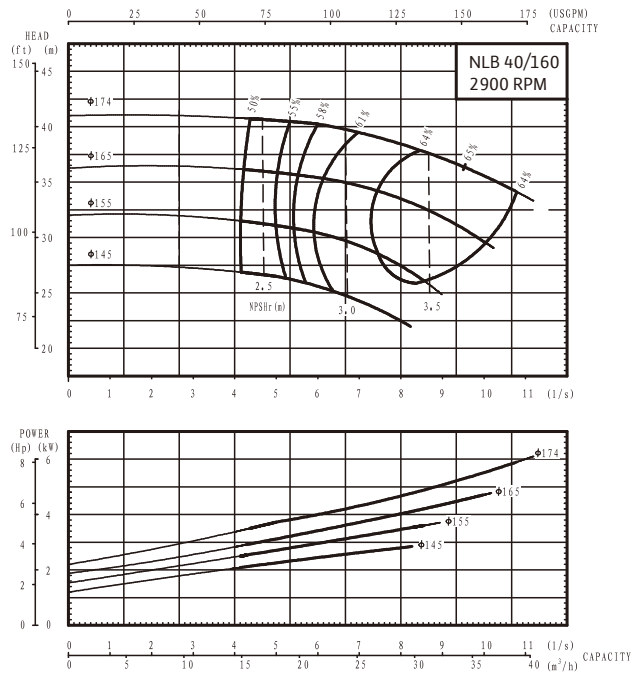


Pump curves Wilo-NLB (2-pole) 性能曲线

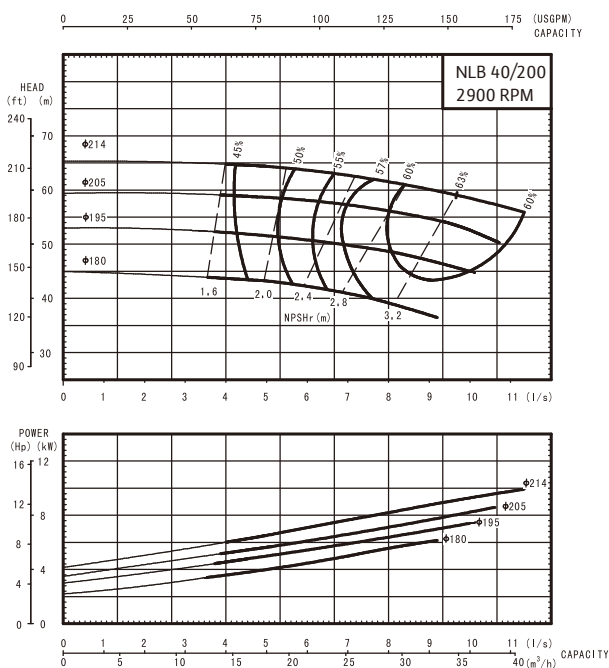
Wilo-NLB 40/130
Speed 2900 RPM



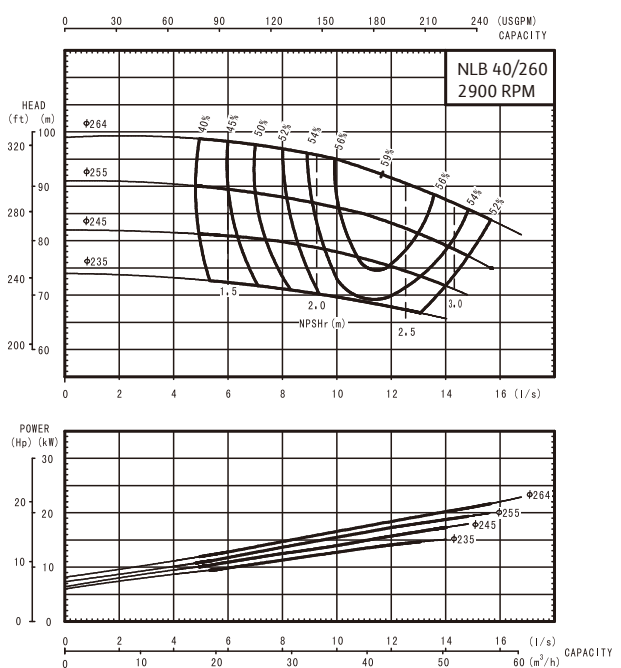
Wilo-NLB 40/160
Speed 2900 RPM



Wilo-NLB 40/200
Speed 2900 RPM

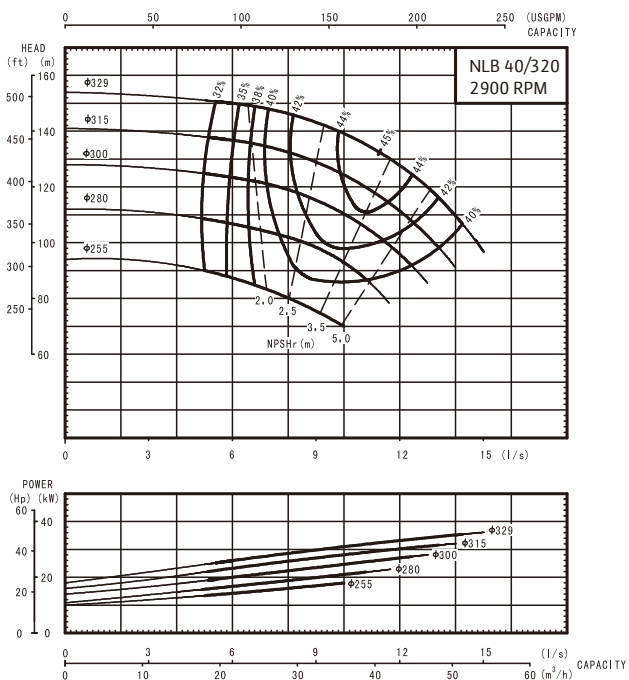


Wilo-NLB 40/260
Speed 2900 RPM

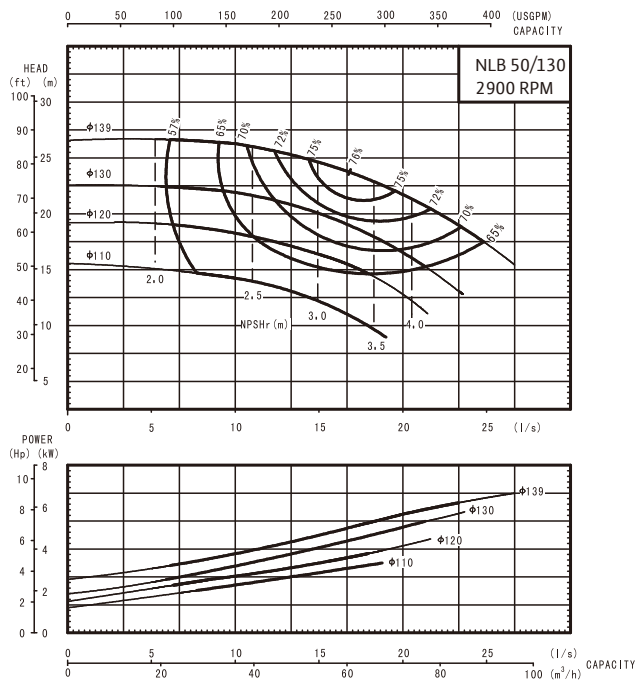


Pump curves Wilo-NLB (2-pole) 性能曲线

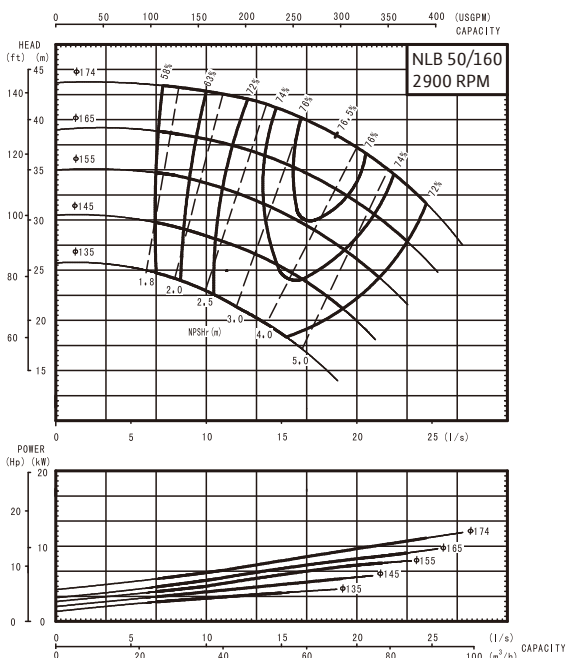
Wilo-NLB 40/320
Speed 2900 RPM



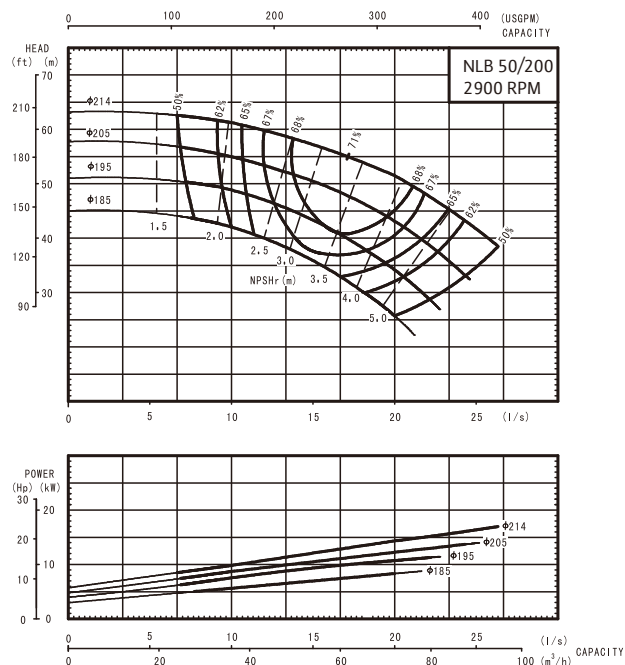
Wilo-NLB 50/130
Speed 2900 RPM



Wilo-NLB 50/160
Speed 2900 RPM

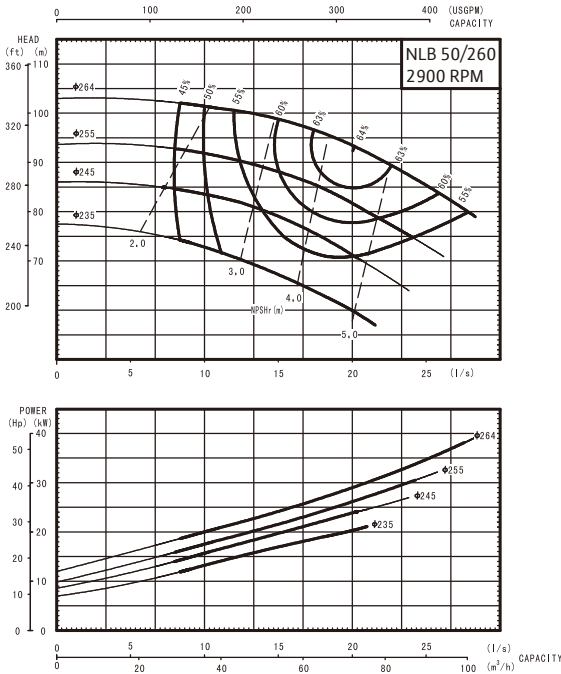


Wilo-NLB 50/200
Speed 2900 RPM

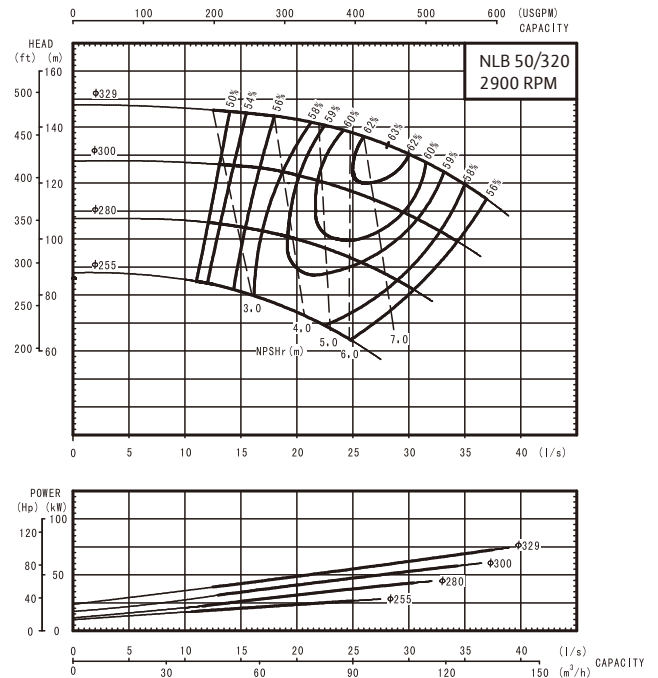


Pump curves Wilo-NLB (2-pole) 性能曲线

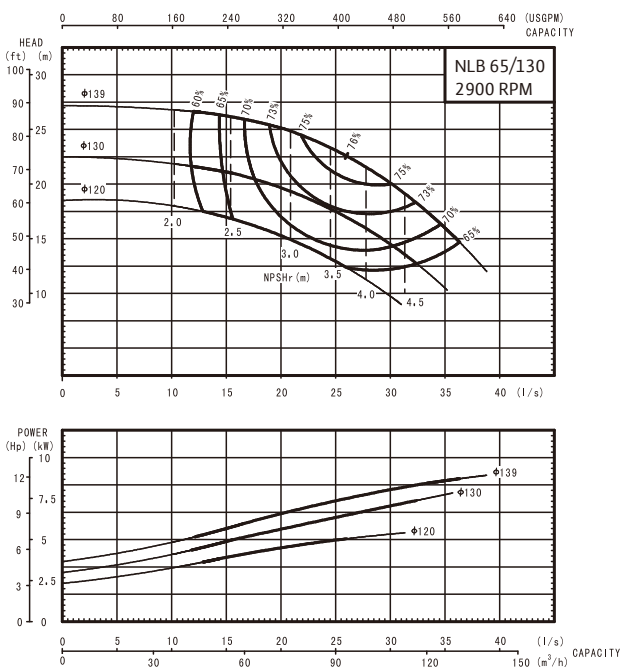
Wilo-NLB 50/260
Speed 2900 RPM



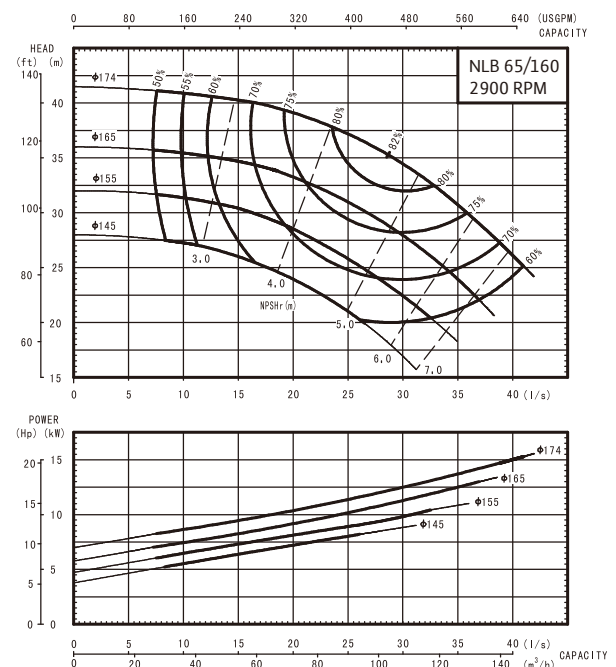
Wilo-NLB 50/320
Speed 2900 RPM



Wilo-NLB 65/130
Speed 2900 RPM

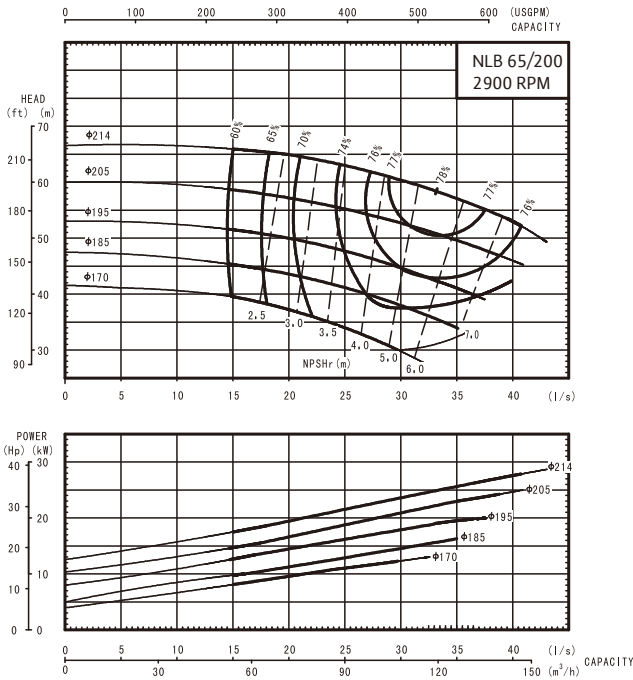


Wilo-NLB 65/160
Speed 2900 RPM

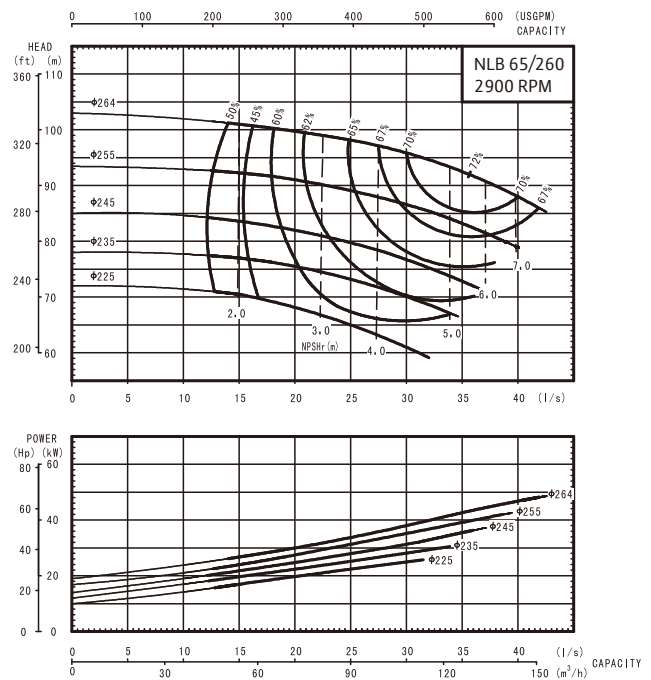


Pump curves Wilo-NLB (2-pole) 性能曲线

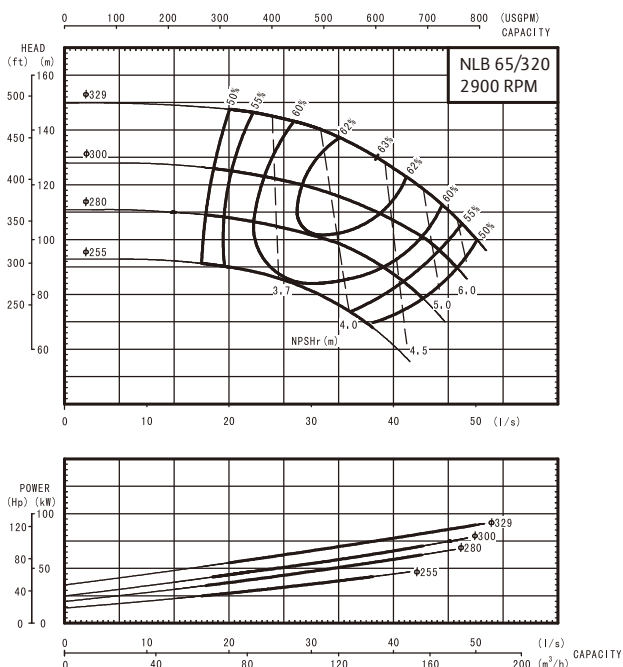
Wilo-NLB 65/200
Speed 2900 RPM



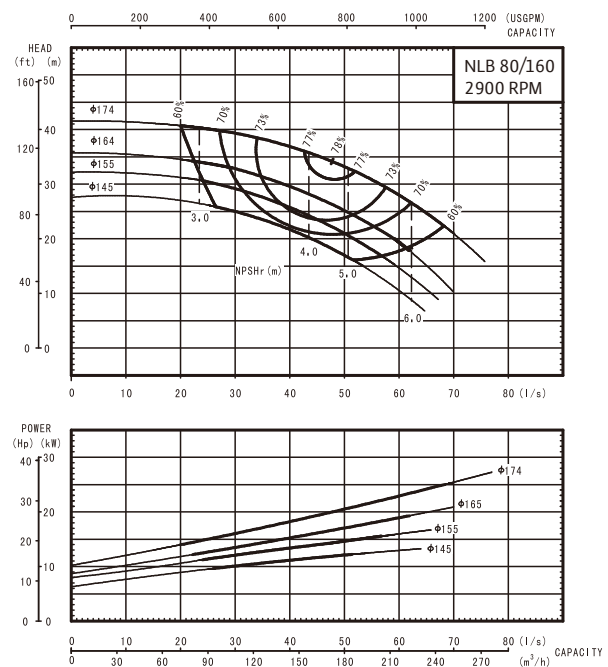
Wilo-NLB 65/260
Speed 2900 RPM



Wilo-NLB 65/320
Speed 2900 RPM



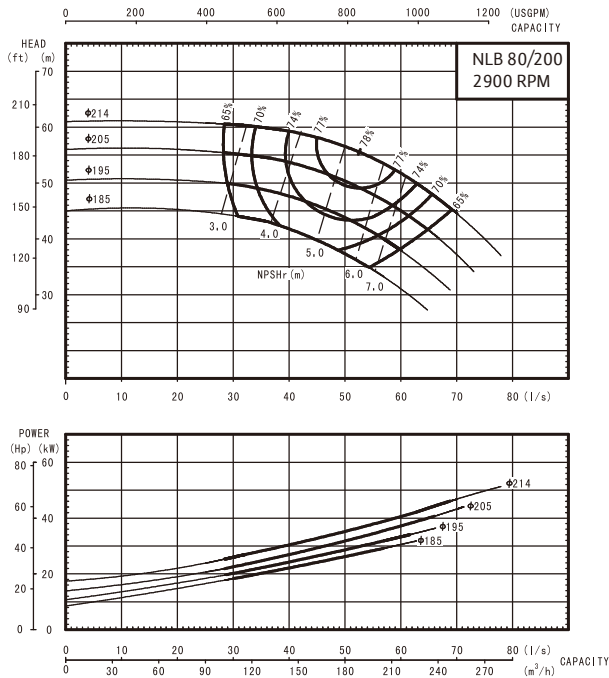
Wilo-NLB 80/160
Speed 2900 RPM



Pump curves Wilo-NLB (2-pole) 性能曲线

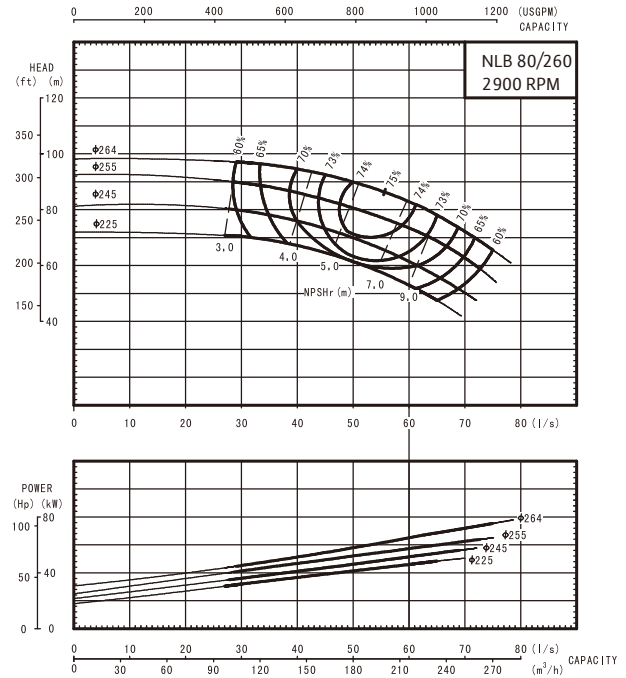
Wilo-NLB 80/200

Speed 2900 RPM



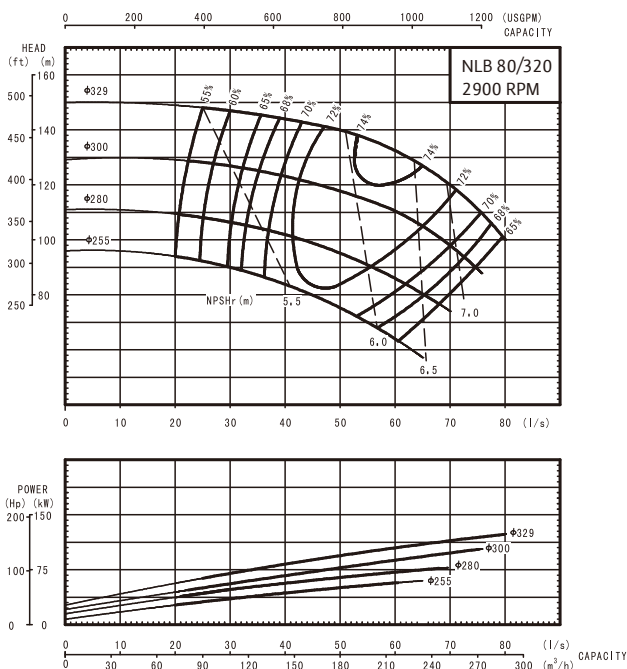
Wilo-NLB 80/260

Speed 2900 RPM



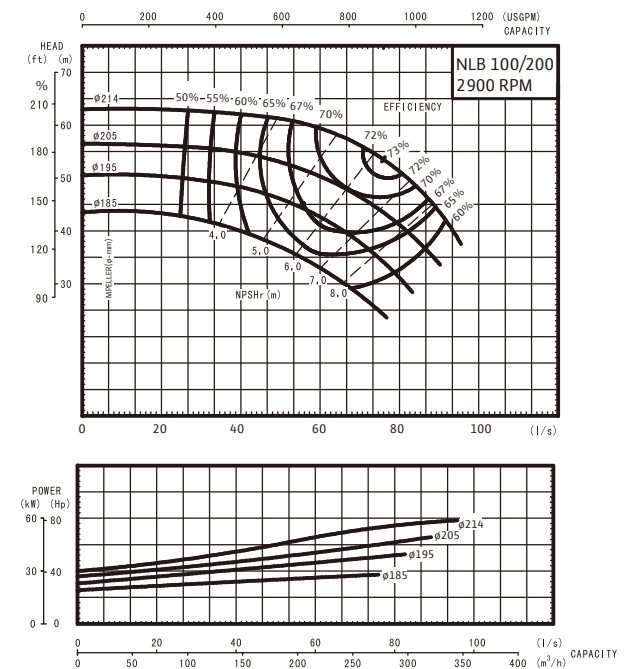
Wilo-NLB 80/320

Speed 2900 RPM



Wilo-NLB 100/200

Speed 2900 RPM

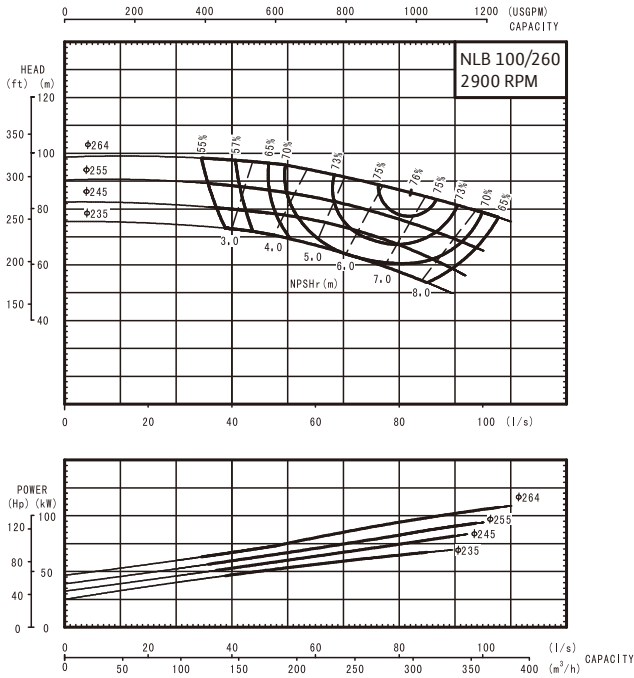


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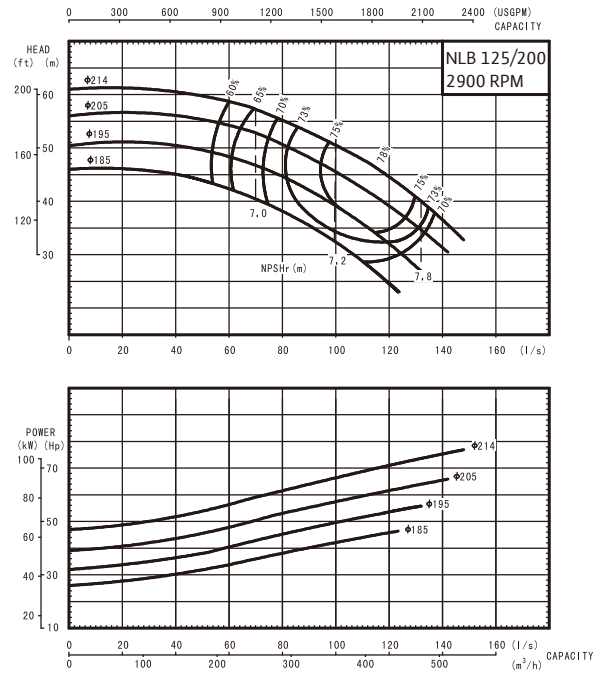
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Pump curves Wilo-NLB (2-pole) 性能曲线

Wilo-NLB 100/260
Speed 2900 RPM

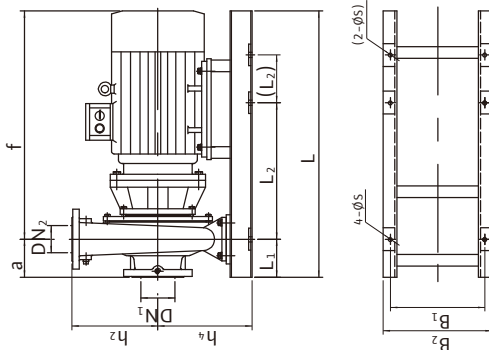


Wilo-NLB 125/200
Speed 2900 RPM

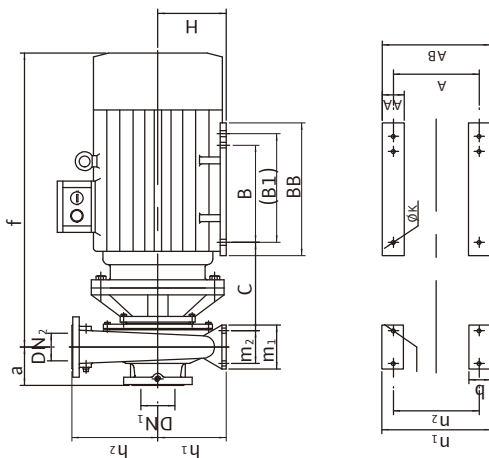


Motor data, dimensions, weights Wilo-NLB 电机参数，外形尺寸及重量

Dimension drawing (with baseplate) 外形尺寸 (带底板)



Dimension drawing (without baseplate) 外形尺寸 (不带底板)



Motor data, dimensions, weights 电机参数，外形尺寸及重量

NLB...	Nominal motor power 电机额定功率 2900 [rpm]	Motor size 电机 编码	Inlet size DN1	Outlet size DN2	Dimensions without baseplate 不带底板安装尺寸													Dimensions with baseplate 带底板安装尺寸																						
					a	f (MG1)	h ₁	h ₂	m ₁	m ₂	n ₁	n ₂	b	ØS	C (MG2)	C (MG3)	B	B1	BB	A	AB	AA	ØK	H	Weight 重量	a	f (MG1)	h _a	h ₂	L (MG3)	L ₁	L ₂	B ₁	B ₂	ØS	Weight 重量				
		kW		MG		[mm]													[kg]																					
32/130	3	-	100L	Ø32	80	520	550	112	140	100	70	190	140	50	Ø14	178	208	140	/	233	160	200	40	Ø12	100	60	80	520	550	187	140	620	100	280	/	200	235	Ø19	80	
	2.2	-	90L	Ø32	80	470	500	112	140	100	70	190	140	50	Ø14	161	191	125	/	210	140	176	36	Ø10	90	52	80	470	500	187	140	570	100	250	/	180	215	Ø19	70	
	1.5	-	90S	Ø32	80	440	470	112	140	100	70	190	140	50	Ø14	161	191	100	/	180	140	176	36	Ø10	90	49	80	440	470	187	140	540	100	250	/	180	215	Ø19	67	
32/160	-	0.55	80M	Ø32	80	390	420	112	140	100	70	190	140	50	Ø14	145	175	100	/	142	125	163	34	Ø10	80	45	80	390	420	187	140	490	100	230	/	180	215	Ø19	62	
	5.5	-	132S	Ø32	80	570	600	132	160	100	70	240	190	50	Ø14	224	254	140	/	186	216	264	55	Ø12	132	94	80	570	600	207	160	670	100	330	/	255	290	Ø19	118	
	4	-	112M	Ø32	80	480	510	132	160	100	70	240	190	50	Ø14	185	215	140	/	180	190	226	45	Ø12	112	75	80	480	510	207	160	580	100	290	/	230	265	Ø19	96	
32/200	3	-	100L	Ø32	80	520	550	132	160	100	70	240	190	50	Ø14	178	208	140	/	233	160	200	40	Ø12	100	68	80	520	550	207	160	620	100	280	/	230	265	Ø19	89	
	-	0.55	80M	Ø32	80	390	420	132	160	100	70	240	190	50	Ø14	145	175	100	/	142	125	163	34	Ø10	80	53	80	390	420	207	160	490	100	230	/	230	265	Ø19	72	
	11	-	160M	Ø32	80	700	730	160	180	100	70	240	190	50	Ø14	273	303	210	/	260	254	314	65	Ø14.5	160	148	80	700	730	235	180	800	100	410	/	305	340	Ø19	177	
32/260	7.5	-	132S	Ø32	80	570	600	160	180	100	70	240	190	50	Ø14	224	254	140	/	186	216	264	55	Ø12	132	103	80	570	600	235	180	670	100	330	/	255	290	Ø19	127	
	5.5	-	132S	Ø32	80	570	600	160	180	100	70	240	190	50	Ø14	224	254	140	/	186	216	264	55	Ø12	132	100	80	570	600	235	180	670	100	330	/	255	290	Ø19	124	
	-	1.1	90S	Ø32	80	440	470	160	180	100	70	240	190	50	Ø14	161	191	100	/	180	140	176	36	Ø10	90	63	80	440	470	235	180	540	100	250	/	230	265	Ø19	82	
32/260	18.5	-	160L	Ø32	100	743	773	180	225	125	95	320	250	65	Ø14.258.5	288.5	254	/	304	254	314	65	Ø14.5	160	193	100	743	773	275	225	870	125	440	/	310	350	Ø19	233		
	15	-	160M	Ø32	100	698	728	180	225	125	95	320	250	65	Ø14.258.5	288.5	210	/	260	254	314	65	Ø14.5	160	176	100	698	728	275	225	830	125	415	/	310	350	Ø19	215		
	-	3	100L	Ø32	100	518	548	180	225	125	95	320	250	65	Ø14.163.5	193.5	140	/	233	160	200	40	Ø12	100	97	100	518	548	255	225	650	125	285	/	310	345	Ø19	121		
40/130	4	-	112M	Ø65	Ø40	80	480	510	112	140	100	70	210	160	50	Ø14	185	215	140	/	180	190	226	45	Ø12	112	70	480	510	187	140	580	100	290	/	220	255	Ø19	91	
	3	-	100L	Ø65	Ø40	80	520	550	112	140	100	70	210	160	50	Ø14	178	208	140	/	233	160	200	40	Ø12	100	63	80	520	550	187	140	620	100	280	/	200	235	Ø19	83
	2.2	-	90L	Ø65	Ø40	80	470	500	112	140	100	70	210	160	50	Ø14	161	191	125	/	210	140	176	36	Ø10	90	55	80	470	500	187	140	570	100	250	/	200	235	Ø19	74
-	0.55	80M	Ø65	Ø40	80	390	420	112	140	100	70	210	160	50	Ø14	145	175	100	/	142	125	163	34	Ø10	80	48	80	390	420	187	140	490	100	230	/	200	235	Ø19	66	

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Motor data, dimensions, weights Wilo-NLB 电机参数, 外形尺寸及重量

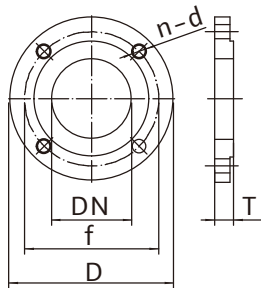
Nominal motor power 电机额定功率		Motor size 电机编码	Inlet 进水口	Outlet 出水口	Dimensions without baseplate 不带底板安装尺寸											Dimensions with baseplate 带底板安装尺寸																						
					2900 [rpm]	1450 [rpm]	a	f (MG3)	f (WMA/P6)	h ₁	h ₂	m ₁	m ₂	n ₁	n ₂	b	ØS	C (MG3)	C (WMA/P6)	B	B1	B8	A	AB	AA	ØK	H	Weight 重量	a	f (MG3)	f (WMA/P6)	h _a	h ₂	L (MG3)	L ₁	L ₂	(L ₂)	B ₁
kW		MG	DN1	DN2	[mm]											[mm]											[kg]											
-	250	355M	Ø250	Ø200	210	1780	1780	400	500	300	240	720	600	160	Ø27	554	560	630	750	610	730	120	Ø28	355	1431	210	1780	1780	625	500	1990	210	550	550	700	750	Ø28	3280
-	200	315L	Ø250	Ø200	210	1580	1580	400	500	300	240	720	600	160	Ø27	516	457	508	680	508	628	120	Ø28	315	2360	210	1580	1580	625	500	1790	210	550	550	700	750	Ø28	2584
-	160	315L	Ø250	Ø200	210	1580	1580	400	500	300	240	720	600	160	Ø27	516	457	508	680	508	628	120	Ø28	315	2360	210	1580	1580	625	500	1790	210	550	550	700	750	Ø28	2584
-	132	315M	Ø250	Ø200	210	1580	1580	400	500	300	240	720	600	160	Ø27	516	457	508	680	508	628	120	Ø28	315	1512	210	1580	1580	625	500	1790	210	550	550	700	750	Ø28	1736
-	110	315S	Ø250	Ø200	210	1470	1470	400	500	300	240	720	600	160	Ø27	516	406	570	508	628	120	Ø28	315	1431	210	1470	1470	625	500	1680	210	500	500	700	750	Ø28	1643	
-	90	280M	Ø250	Ø200	210	1270	1270	400	500	300	240	720	600	160	Ø27	460	419	536	457	542	85	Ø24	280	1110	210	1270	1270	580	500	1480	210	740	/	700	750	Ø28	1273	

注：1. For pump assembly with non-cushion, the installation dimension on request.
水泵配磁轭安装时，安装尺寸请与威乐(Wilo)联系

2. Any nonstandard option (Special working pressure, nonstandard mechanical seal, etc.) the installation dimension on request.
特殊承压、特殊机械密封配置时，安装尺寸请与威乐(Wilo)联系

Flange dimensions Wilo-NLB 法兰尺寸

Dimension drawing: 法兰尺寸图



Flange dimensions 法兰尺寸		Pump flange dimensions 水泵法兰尺寸		
Nominal diameter 公称直径	f	D	T	n-Ød
DN	[mm]			[pcs. x mm]
32	Ø100	Ø140	19	4-Ø18
40	Ø110	Ø150	21	4-Ø18
50	Ø125	Ø165	23	4-Ø18
65	Ø145	Ø185	23	4-Ø18
80	Ø160	Ø200	25	8-Ø18
100	Ø180	Ø220	27	8-Ø18
125	Ø210	Ø250	29	8-Ø18
150	Ø240	Ø285	29	8-Ø18
200	Ø295	Ø340	33	12-Ø18
250	Ø355	Ø405	38	12-Ø18

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