ISO Single Stage Centrifugal Pump (End-suction Pump)

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- If need any information, please refer to us or browse our company web page.
- Better has always been devoting to research and innovation of fluid equipment, any individual specification is subject to change without notice.
- Uses ecology paper printing.

ISO SINGLE STAGE CENTRIFUGAL PUMP

50Hz

BETTER (CHINA) TECHNOLOGY CO.,LTD.

Dreams, Struggles, Future!

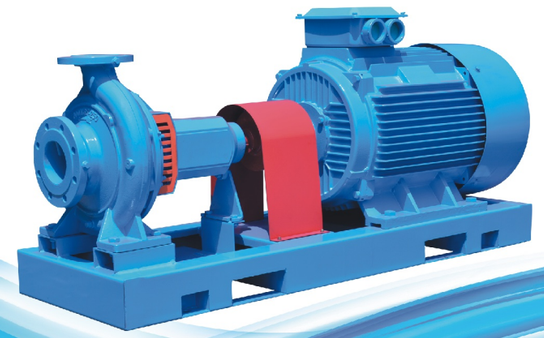
ZJ·BETTER®

The Best Circulation Water Supply Equipment

ISO Single Stage Centrifugal Pump (End-suction Pump)

50Hz | ISO 2858

ISO 9908 UL 448



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About BETTER

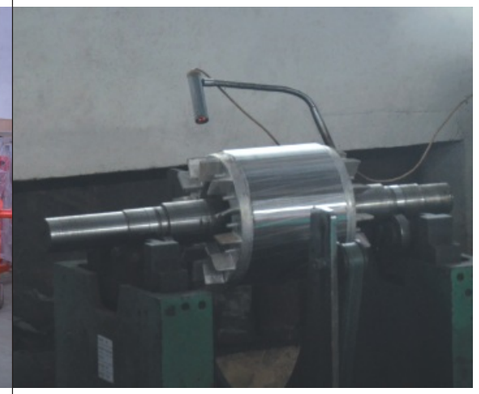
Better (China) Technology Co., Ltd. was founded in 2004. We are locate in Hangbu development zone, Quzhou, Zhejiang, with convenient transportation access, covering an area of 20000 square meters, for 15000 square meters workshop. It combines the functions of professional design, development, manufacture and sale of general fluid equipment of high-tech enterprise. It has established the technology cooperation with overseas famous companies such as Hyundai Pump Corp. of Korea, Sitian Corp. of Japan etc. introduced the advanced design, development and management mode, and long employed foreign expert as the instructor. The products enjoy the competitive force in global market. Better Pump has established many sales distributions and agencies in the major provinces in China. Through attending a variety of large scale exhibition, we have developed a broader market. We are looking forward to forming successful business relationships with new clients around the world in the near future.

Dreams, Struggles, Future!

Specialized Production | Specialty, Technology, Environmental

Standardized Testing | Standard, Strict, Careful









ISO | SINGLE STAGE CENTRIFUGAL PUMP (END-SUCTION PUMP)

ISO 2858 | ISO 9908 | UL 448

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Product Introduction

ISO series single-stage centrifugal pump is a single-stage single-suction centrifugal pump product developed by China Better Technology Co., Ltd. with reference to international similar products using modern fluid mechanics to meet the international standard ISO9908 secondary energy efficiency standard. This product combines the strengths of similar products at home and abroad and is designed with excellent hydraulic models, therefore, its excellent hydraulic performance and structural features ensure that the user can effectively reduce the operating cost of the pump in various applications.

Main Features

• Interchangeable

Meet ISO2858, ISO9908 international standards, making it interchangeable with other products that meet the requirements of these standard.

• Structural features of Quality Improvement

The pump body --- the pump body is in the form of high-efficiency volute. The flange connection size is in accordance with UL448, FM1319, ANSI/ASME B16.1, ANSI/ASME B16.42, GB/T 17241.6 (cast iron) and GB/T 9113.1 (steel) PN1.6MPa, and can be used with the following standard flanges. : BS 4504:1989, ISO 7005.1:1992, DIN 2533: 1976, ISO 7005.2:1988.

• The rear open cover design --- Can replace the rotor components without dismantling the pipeline.

• Replaceable seal ring --- The wear of the impeller ring can be achieved only by replacing the sealing ring, so as to restore the best operating condition of the pump and achieve low-cost operation.

• Enhanced pump shaft design --- The impeller and the pump shaft are designed with a conical surface to improve the matching precision and bonding strength, which is beneficial for effective locking and convenient maintenance during operation.

• Cantilever ratio is small --- The cantilever ratio of the rotor ranges from 0.75 to 1.0, with good rigidity and small deflection. Its rigidity is much better than that of the same type of single-stage centrifugal pump (the cantilever ratio of IS pump is between 0.97 and 1.48).

• Hydraulic balance design --- Further Improve the Stability of Pump Operation, hydraulic balance design and combination of impeller dynamic and static balance.

• Single-end mechanical seal design --- suitable for occasions where leakage is not allowed.

• Packing gland design --- meets UL/FM standard design and is interchangeable with mechanical seal.

• Reliable bearing structure design --- Heavy-duty large-size bearings improve reliability during high-speed and heavy-duty operation. Imported brand Sealed bearings without grease are selected as the standard configuration, bearing inner seal with high quality grease to meet the requirements of maintenance-free and environmental protection during the life of bearings. Oil bath lubrication or grease lubrication bearings are suitable for continuous 24-hour operation and medium temperature greater than 80 C. If grease lubricated bearings or oil lubricated bearings are selected, should inform us when ordering so as to provide more suitable products.

• High degree of generalization of parts --- The whole series only need 4 suspensions, 4 pump shafts and 10 pump covers, which effectively improves the interchangeability of parts.

• Rotation direction of the pump --- from the driving end, it rotates clockwise.

• Superior technical performance

• Advanced research and development methods --- using three-dimensional software and fluid design software for simulation design and CFD software for hydraulic model design and verification, so that the flow characteristics of the pump in the best state, to ensure that the pump has excellent suction performance and operation efficiency.

• Wide performance range --- beyond ISO2858, at the same speed, the flow is 1.6 times, the lift is 1.25 times and 1.8 times (expanding 500mm nominal impeller diameter).

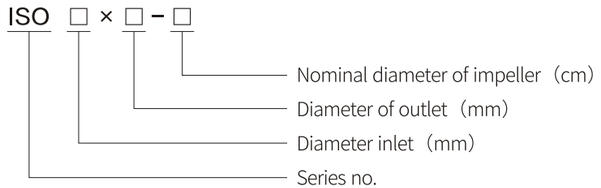
The Main Technical Parameters

There are 36 kinds of specifications in the whole series, which can provide hundreds of performances with 6 different impeller diameters and 4 rotational speeds (including 60Hz) for selection.

- Pump diameter: suction 50 ~ 300mm, discharge 32 ~ 300mm
- Flow rate: up to 1450m^3/h
- Head: up to 222m
- Housing pressure: up to 1.6MPa at 20°C, Other materials such as ductile iron can sustain higher pressures (housing pressure = inlet pressure + shut down head)
- Medium temperature: -10°C～104°C, please specify when ordering more than 80°C
- Product Standard: Q/BD2104-2008 General Usage Centrifugal Pump

NOTE: When medium temperature is above 80°C or non-clear water medium is transported, please specify when inquiring or ordering.

Model Explanation



Example: inlet is 200mm, outlet is 150mm, impeller diameter is 500mm, ISO model, this model signify: ISO200×150-500.

Application Scope

Transporting clean water or weakly corrosive liquids without solid particles and fibers (wearing parts use stainless steel)

- Construction: High-rise water supply, building fire protection, central air-conditioning water circulation.
- Industry: Circulation and cooling systems, boiler water supply and industrial water supply and drainage in industrial process systems.
- Water supply: Water plant water supply, distribution and supercharging, artificial landscape water supply boosting, plantation irrigation, etc.

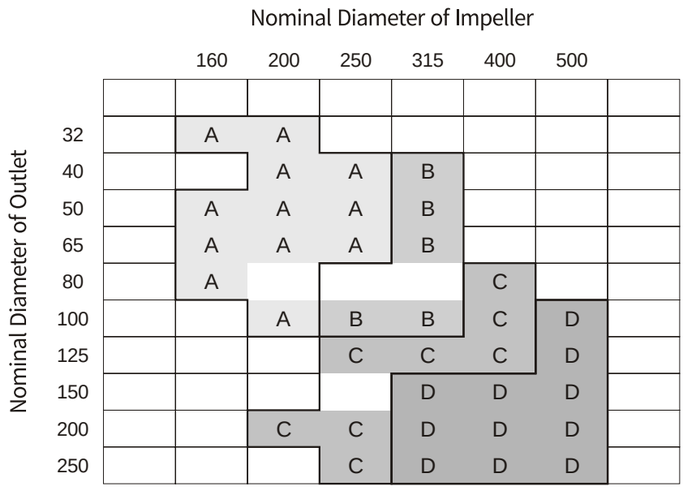
Main Parts Material Selection Table

Material Name	Material Code and Material（GB Standard）				
Pump Casing, Pump Cover	HT250	HT250	QT500-7	06Cr19Ni10	022Cr17Ni12Mo2
Impeller	HT250	ZCuSn5Pb5Zn5	ZCuSn5Pb5Zn5	06Cr19Ni10	022Cr17Ni12Mo2
Impeller Wearing Ring	HT250	HT250	ZCuSn5Pb5Zn5	ZCuSn5Pb5Zn5	022Cr17Ni12Mo2
Shaft	20Cr13	20Cr13	20Cr13	20Cr13	2205

Material Name	Material Code and Material（ASTM Standard）				
Pump Casing, Pump Cover	No35A	No35A	A536 80-55-06	CF8	SUS316L
Impeller	No35A	C83600	C83600	CF8	SUS316L
Impeller Wearing Ring	No35A	No35A	C83600	C83600	SUS316L
Shaft	SS420	SS420	SS420	SS420	S31803

Note: When the material of the selected part is not the configuration in the above table, please consult with us.

Maximum Allowable Working Speed of the Pump



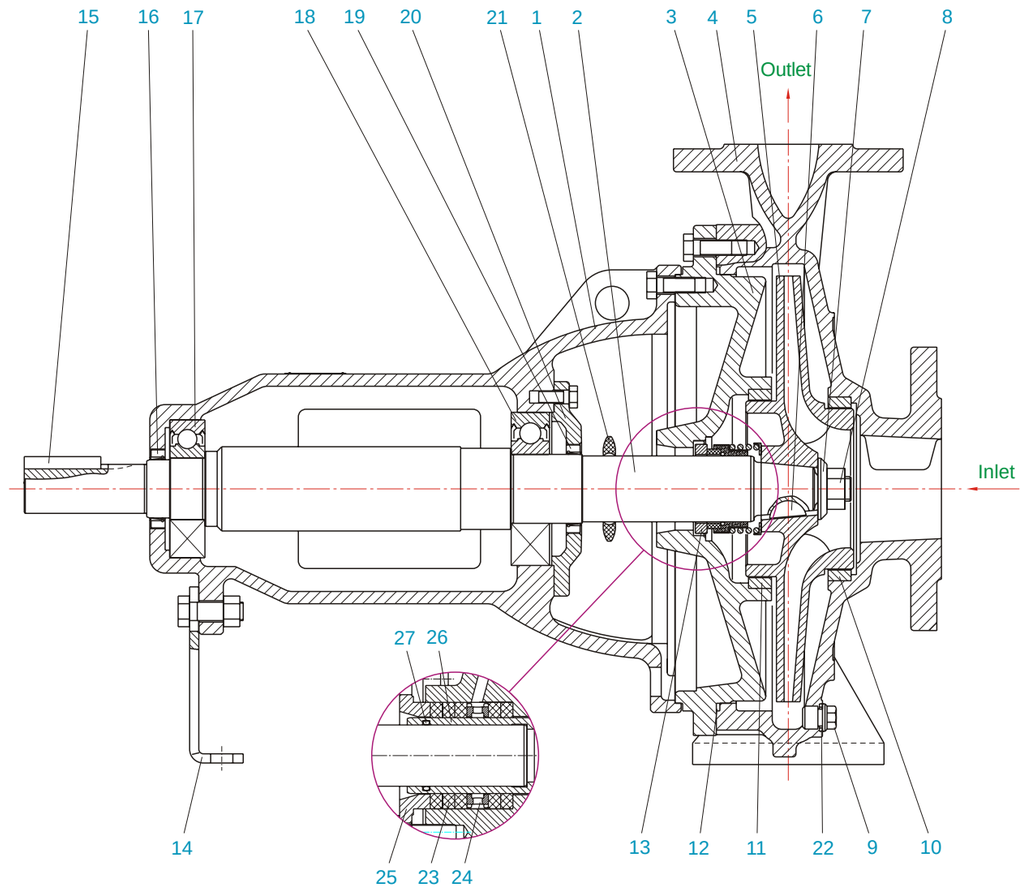
Note: Each square with a shadow in the above figure represents one specification pump.

The maximum speed of impellers with "A", "B", "C" and "D" as positive blades corresponds to 3600 r/min, 3000 r/min, 2350 r/min and 1800 r/min respectively. In order to increase the maximum speed of the pump, the diameter of the impeller must be reduced.

Examples: want to know the maximum speed of 150x125-315 pump

According to the model, the nominal diameter of the pump outlet is 125, and the nominal diameter of the impeller is 315. From the above figure, the corresponding grid is marked with "C", so the maximum speed is 2350r/min.

Structure Description



1. Suspension 2. Shaft 3. Pump cover 4. Pump casing 5. Impeller 6. Woodruff key
7. Impeller washer 8. Impeller nut 9. Hexagon plug 10. Sealing ring 11. Seal ring 12. O-ring
13. Mechanical seal 14. Suspension support 15. Key 16. Framework lip seal
17. Deep groove ball bearing 18. Deep groove ball bearing
19. Framework lip seal 20. Bearing cover 21. Flinger ring 22. Bolt gasket
23. Packing gland 24. Packing ring 25. Packing cover 26. Shaft sleeve 27. O-ring

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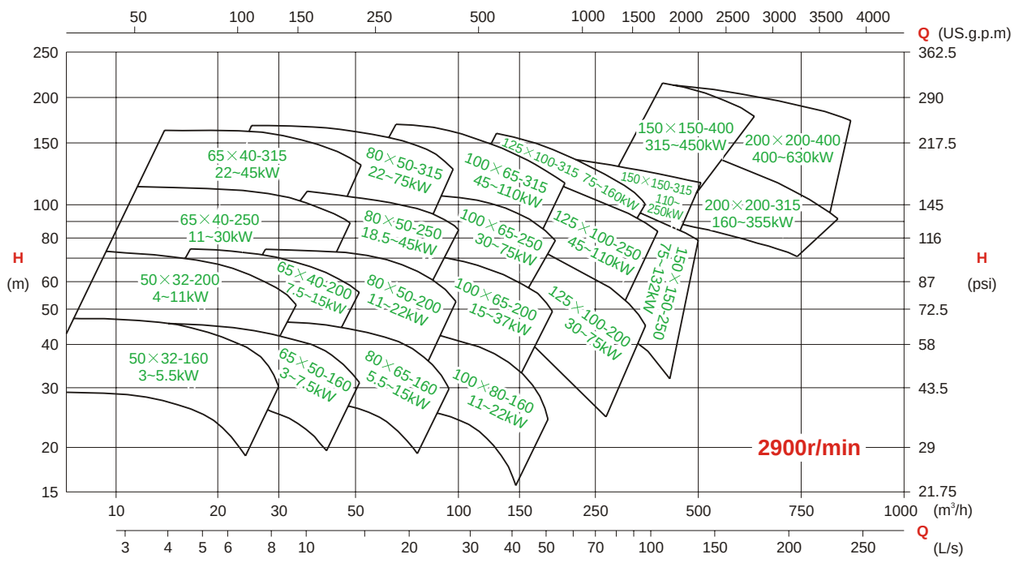
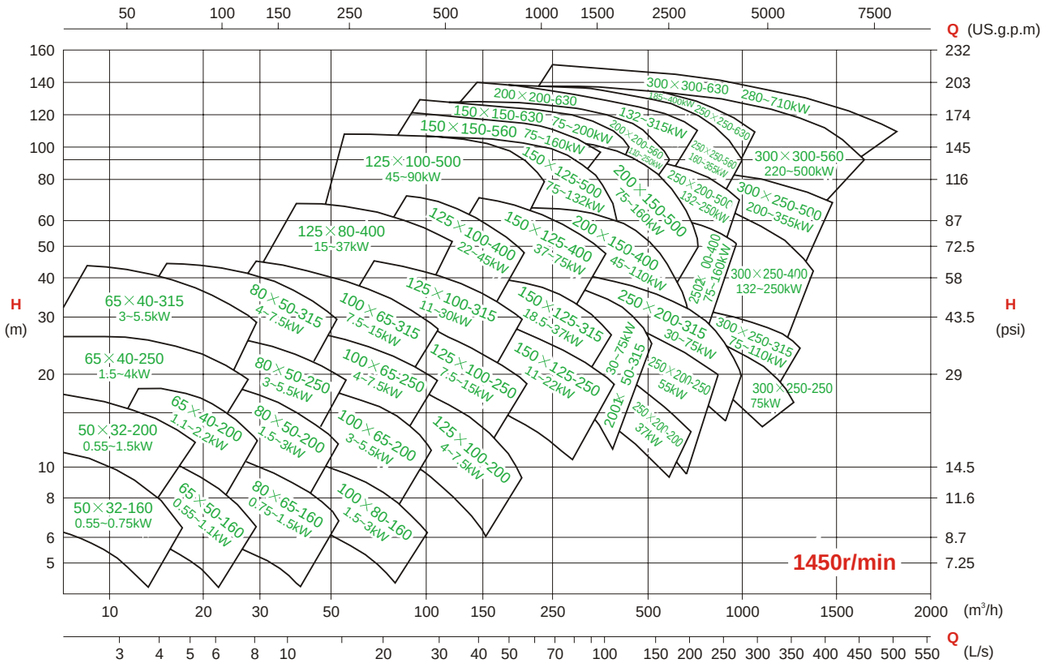
Performance Curve Spectrum





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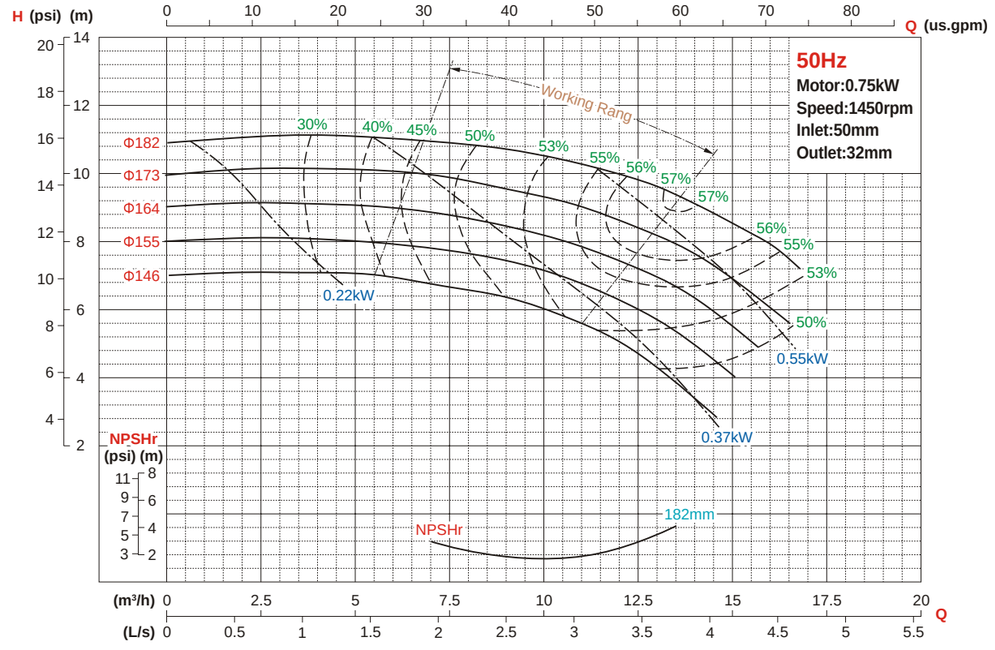
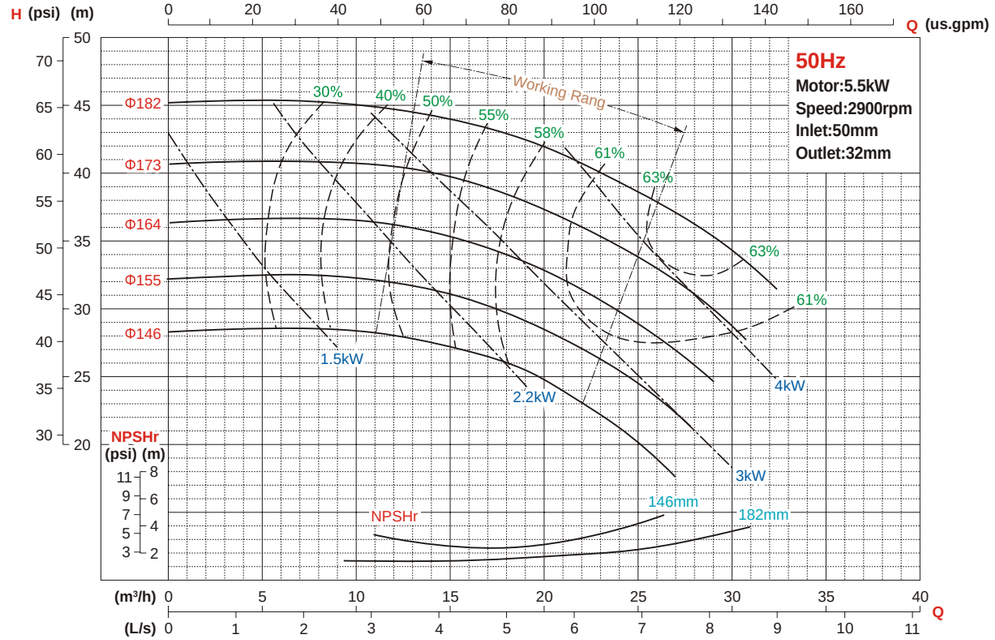
ISO 50×32-160

Performance Curve





ISO50×32-200

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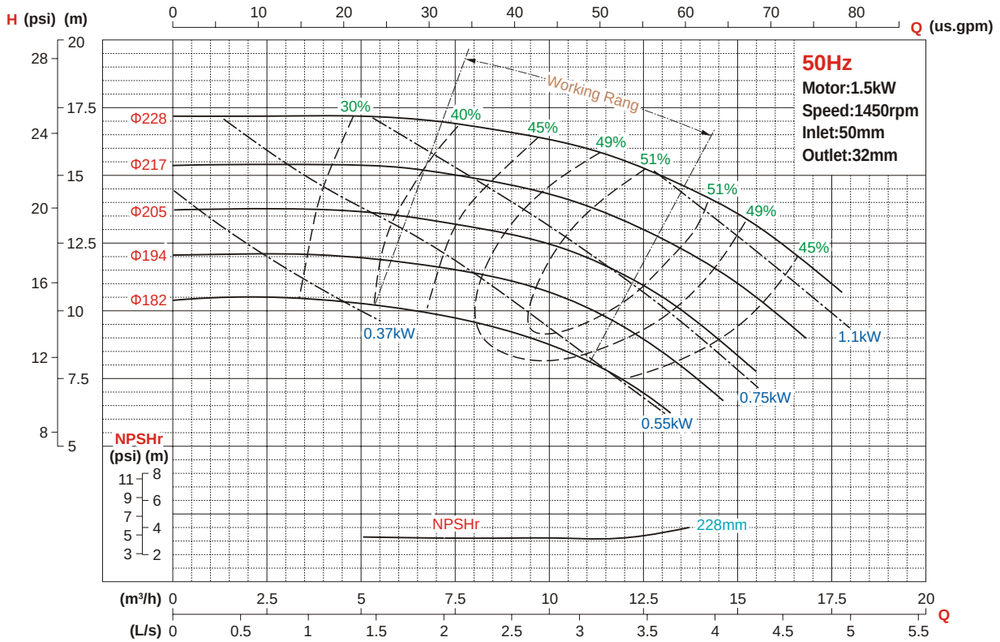
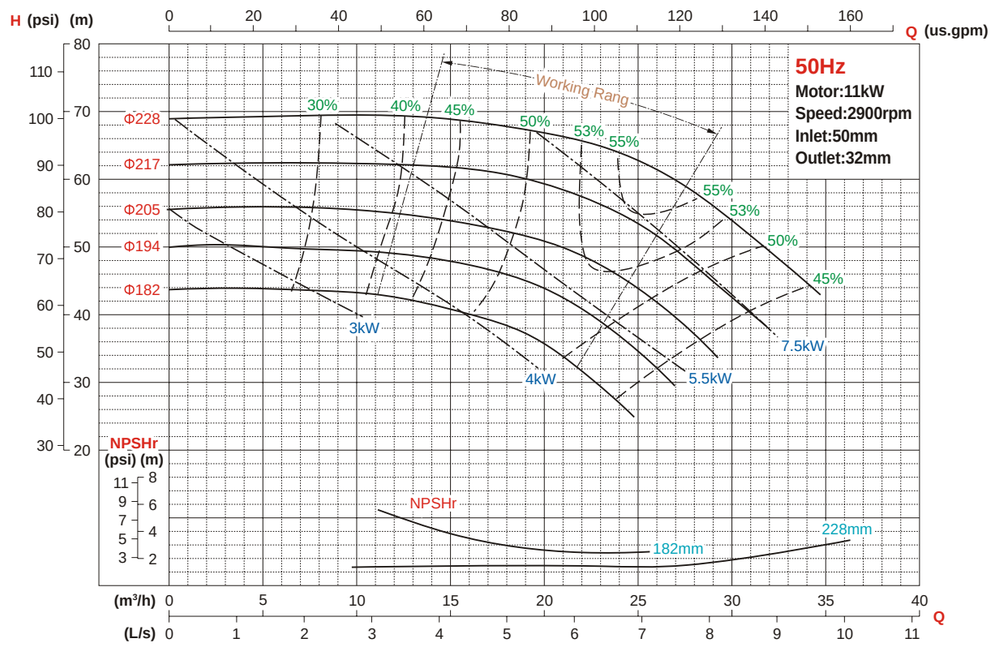
Performance Curve





ISO65×40-200

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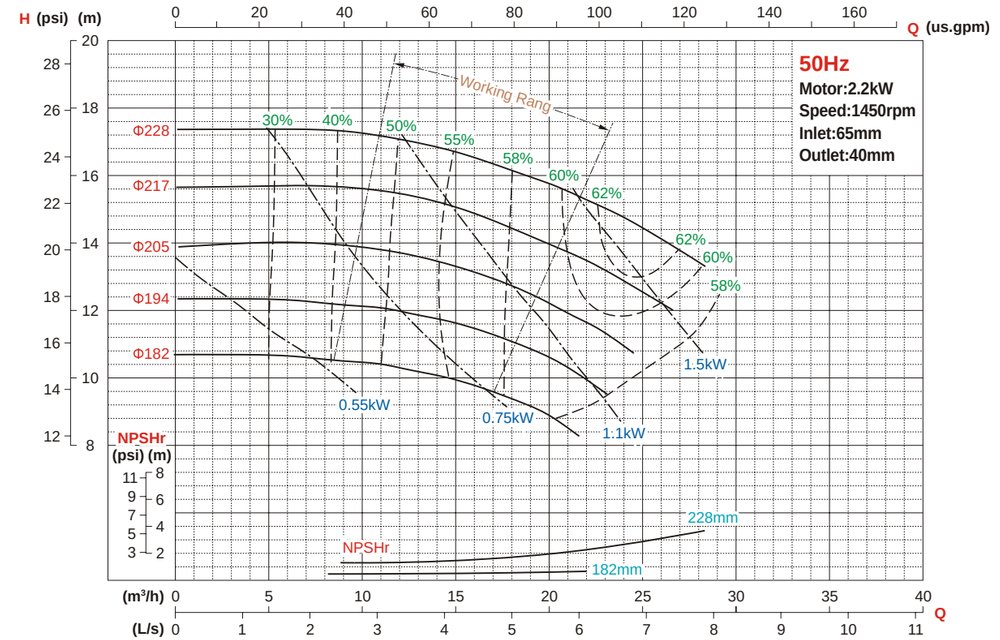
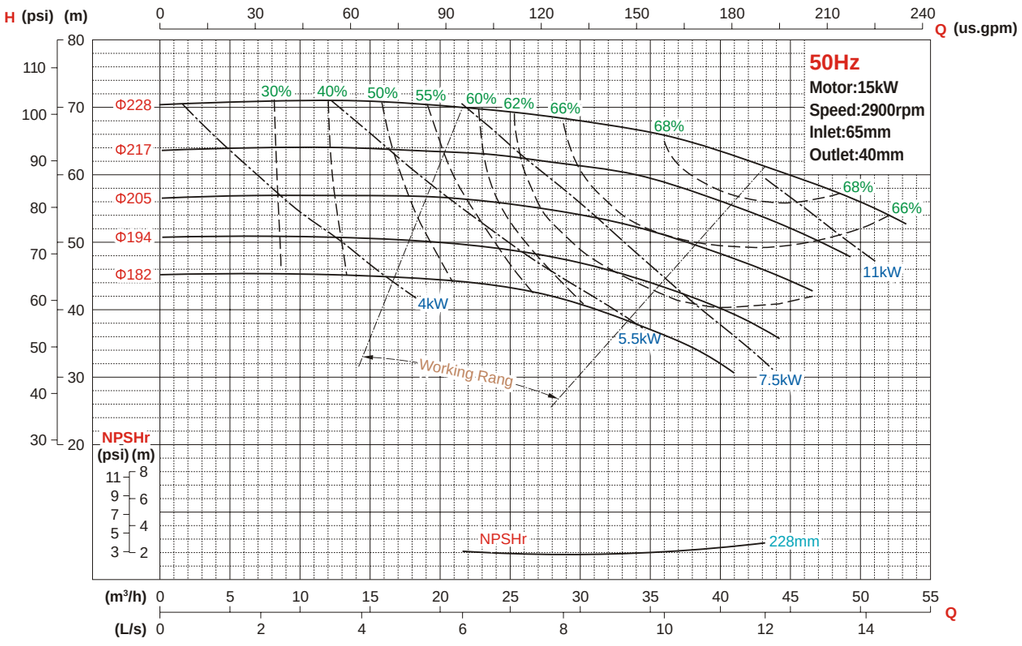
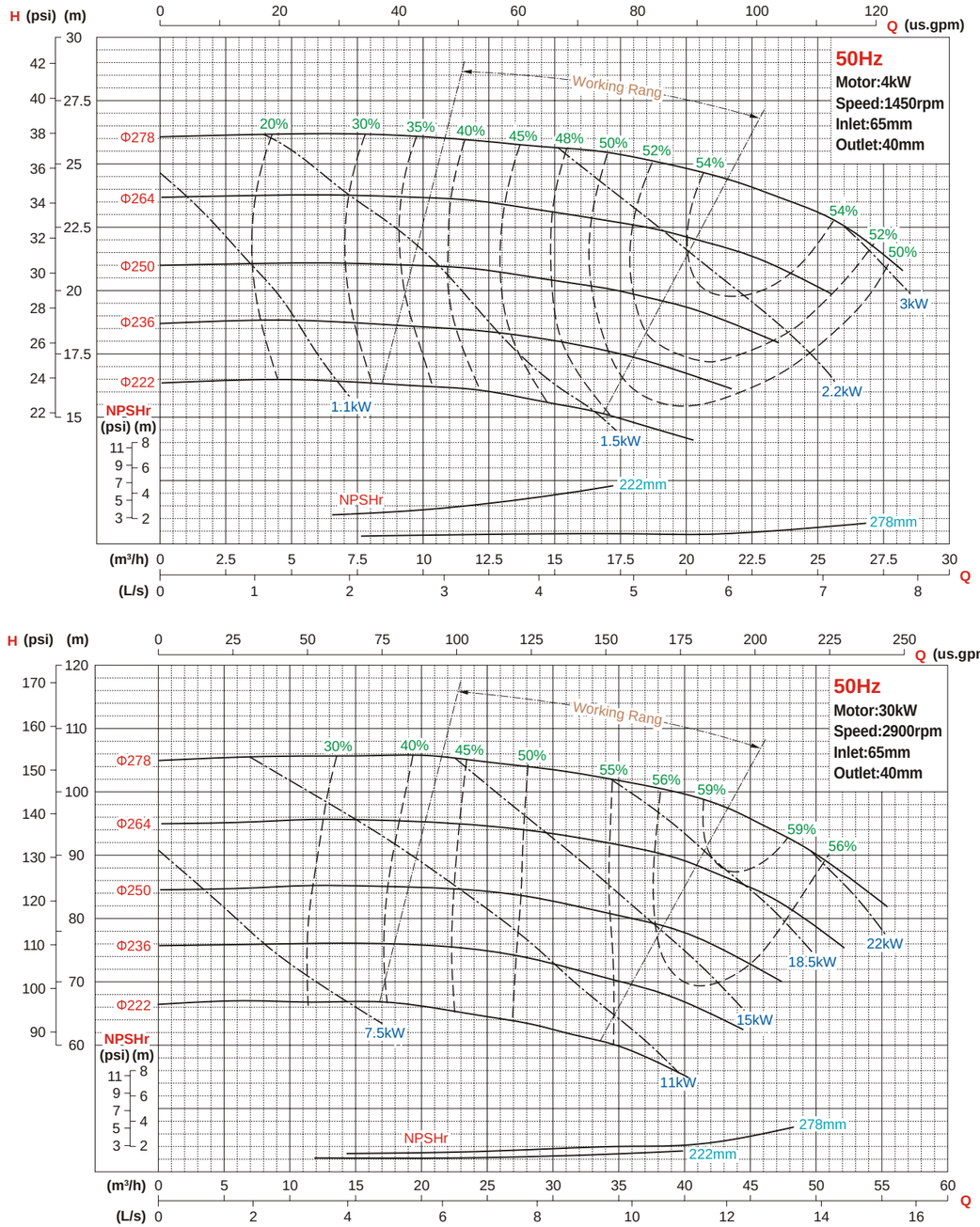
Performance Curve





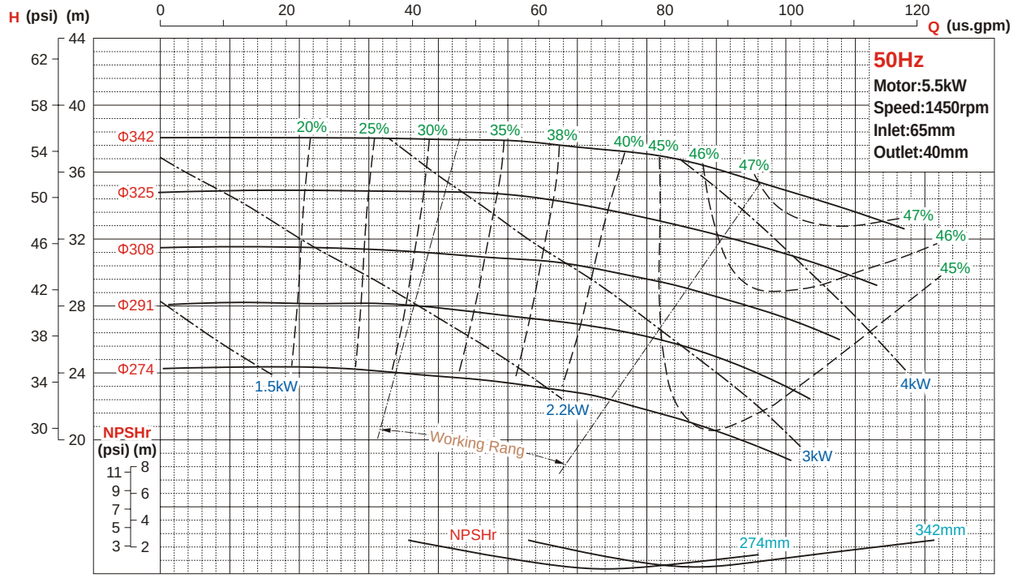
ISO65×40-250

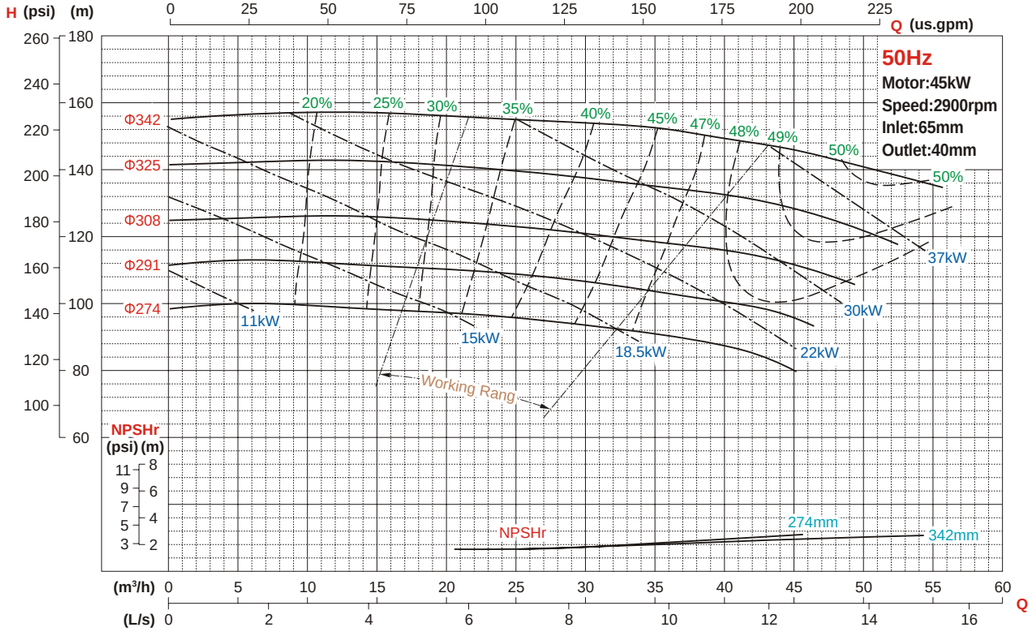
Performance Curve



ISO65×40-315

Performance Curve





ISO65×50-160

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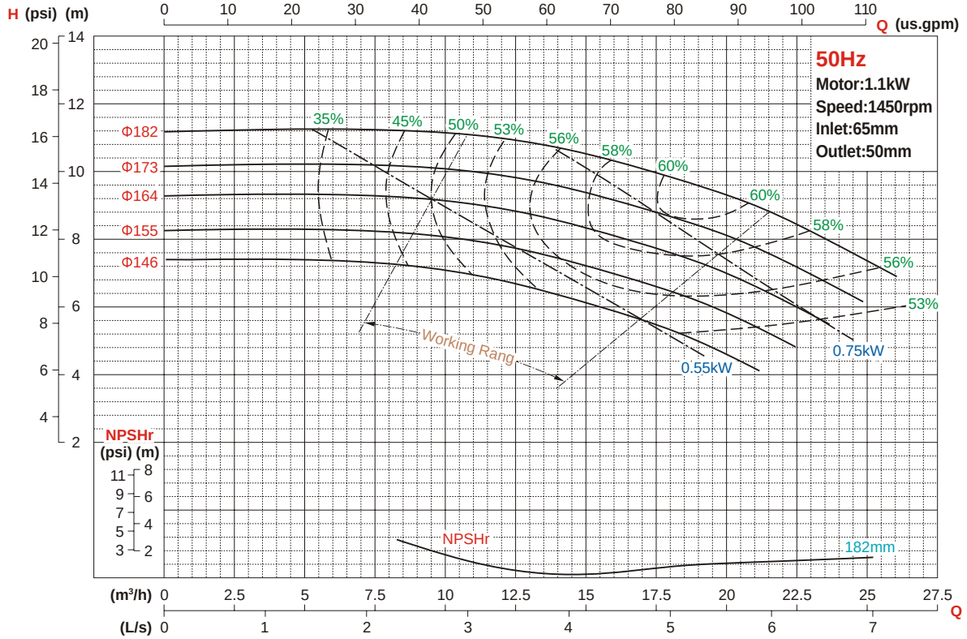
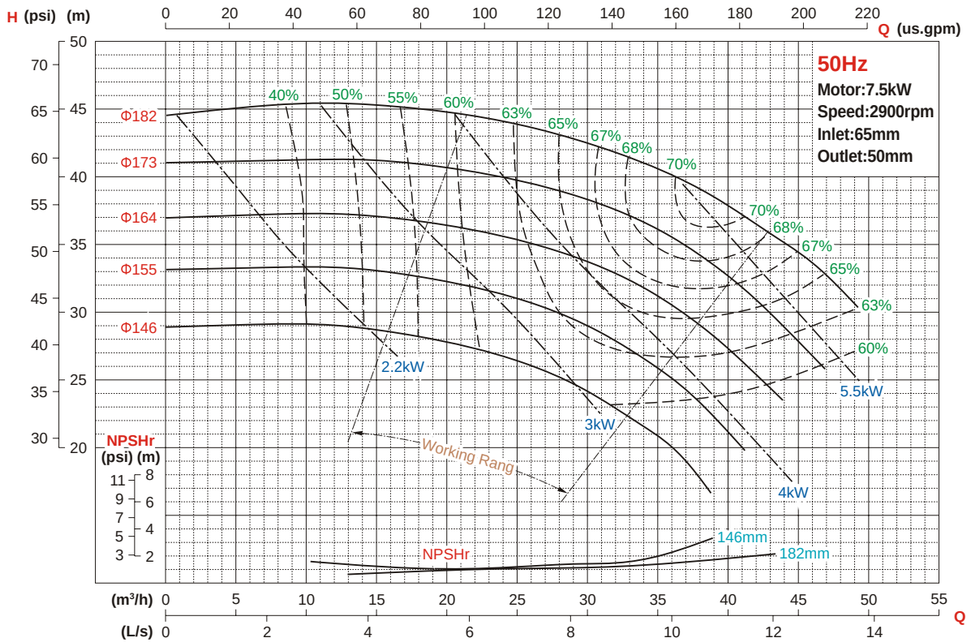
Performance Curve





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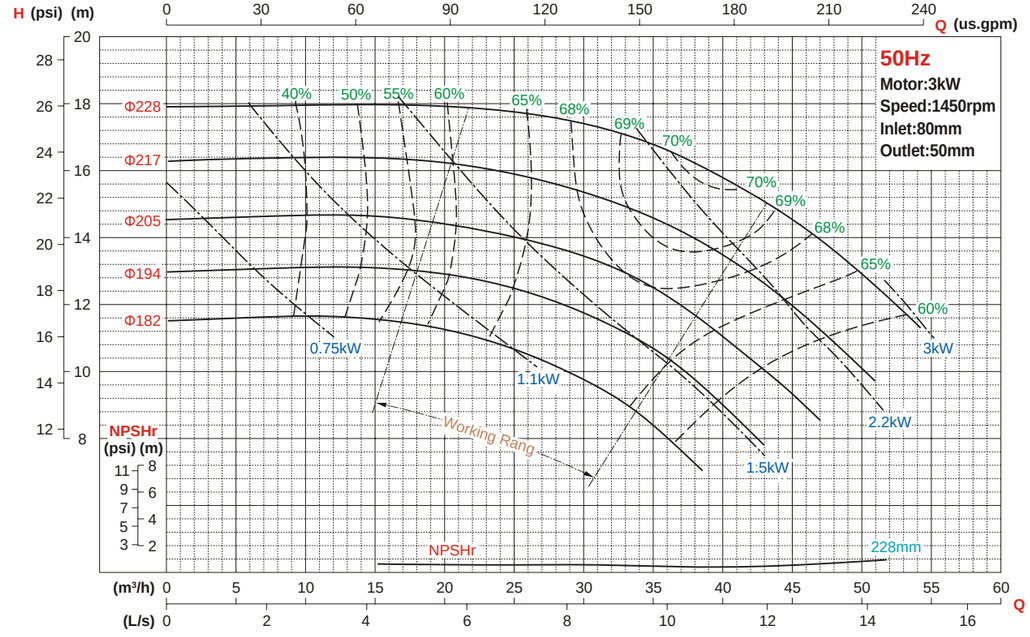
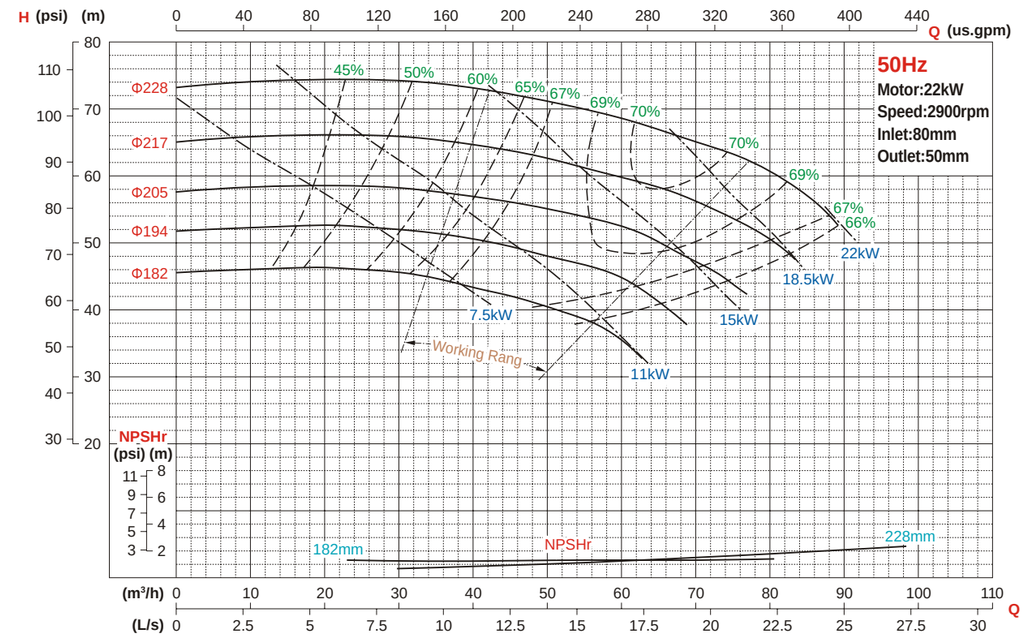
ISO80×50-200

Performance Curve





ISO80×50-250

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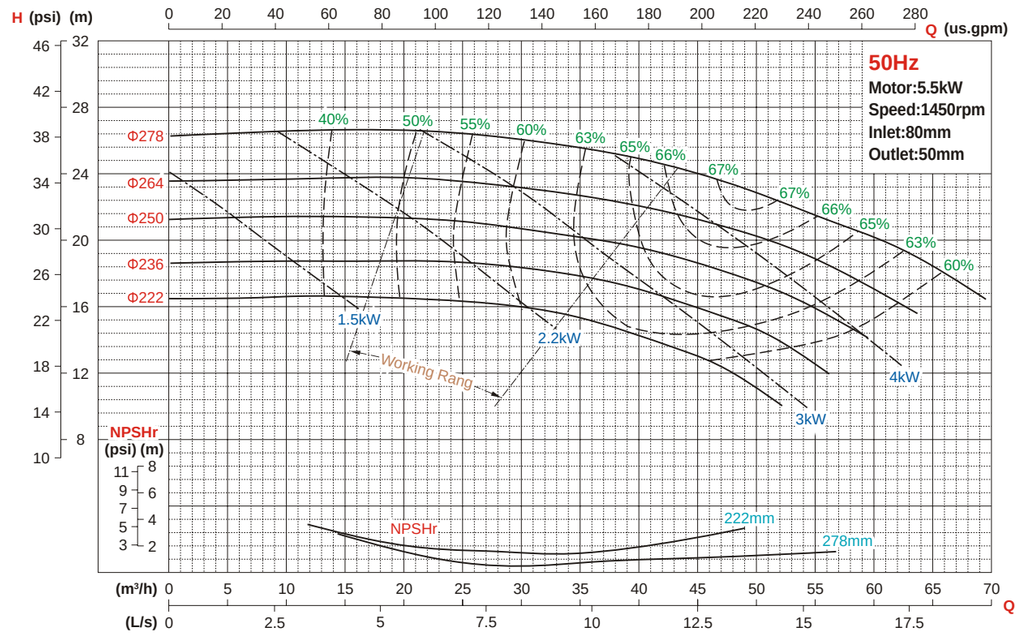
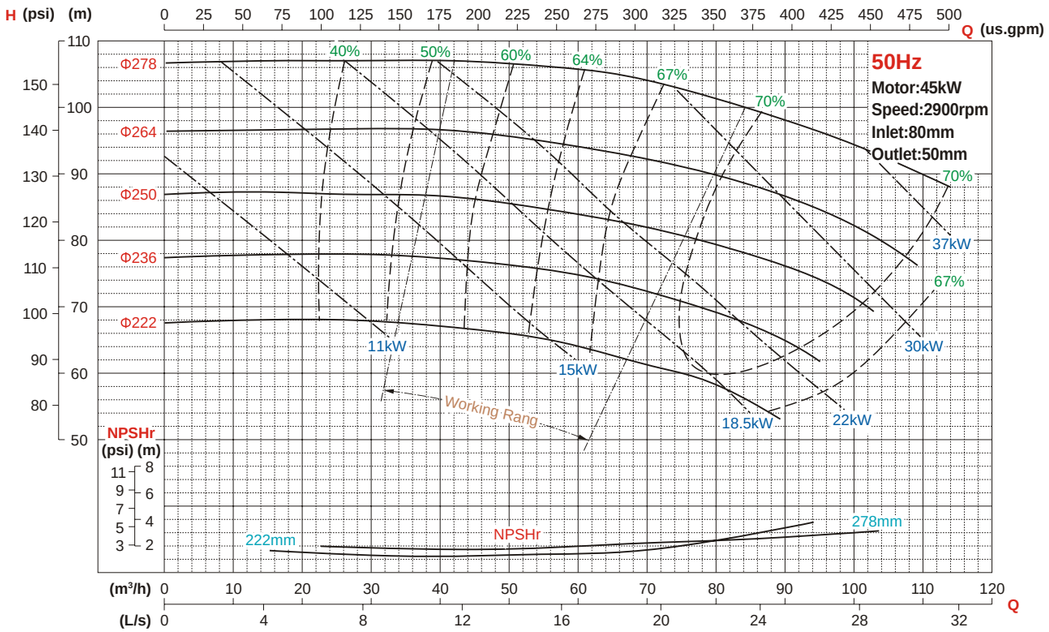
Performance Curve





ISO80×50-315

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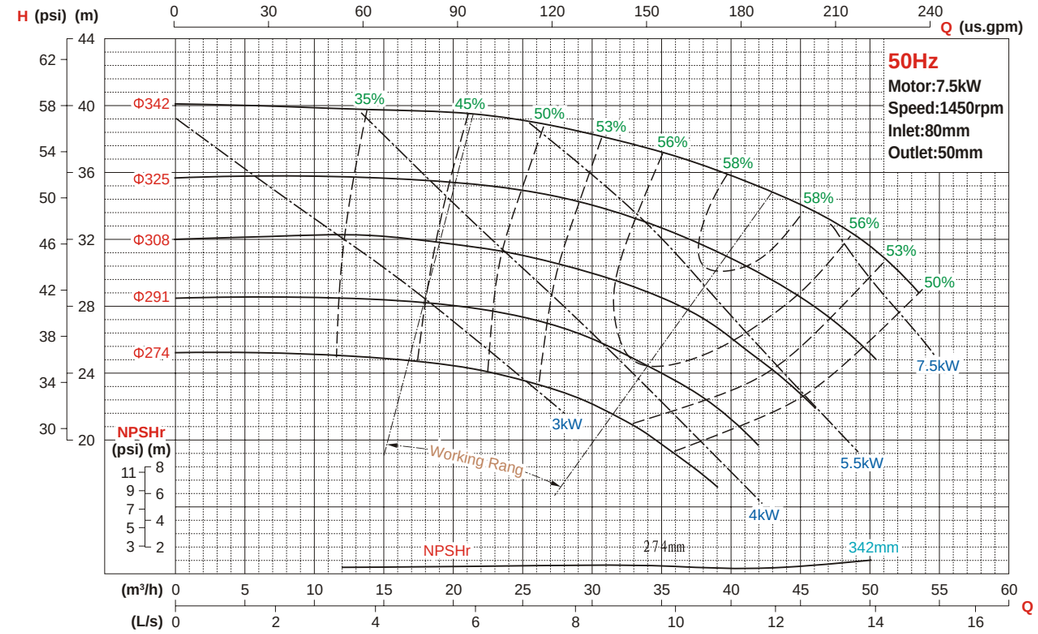
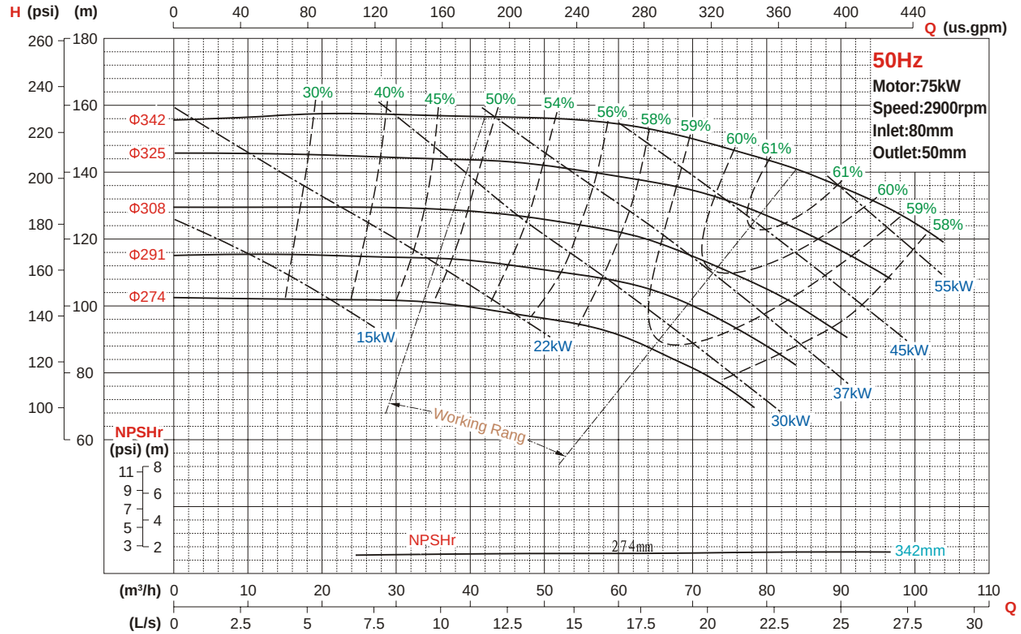
Performance Curve





ISO 80×65-160

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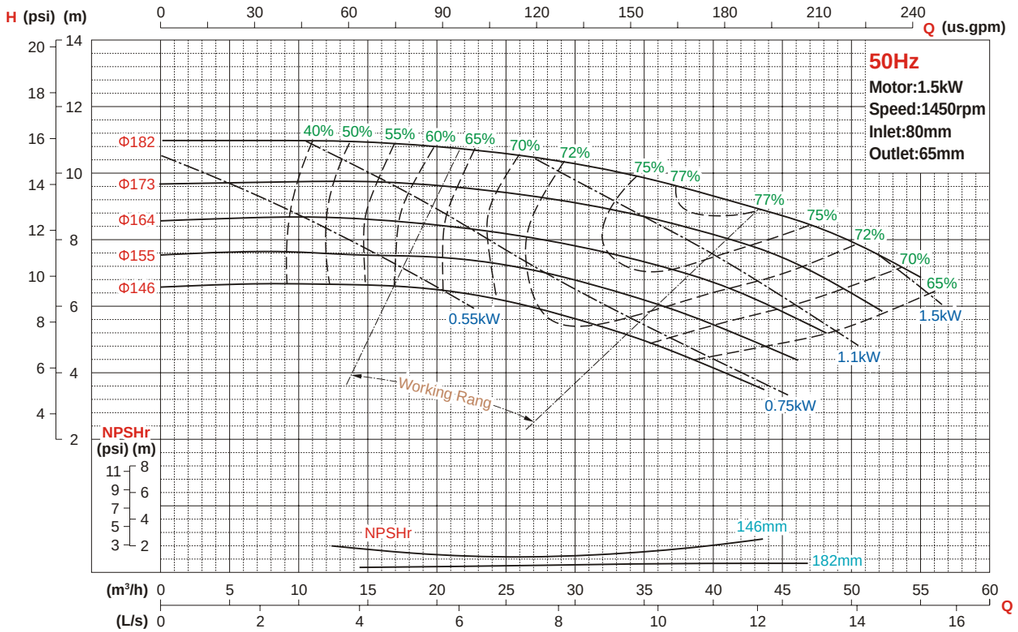
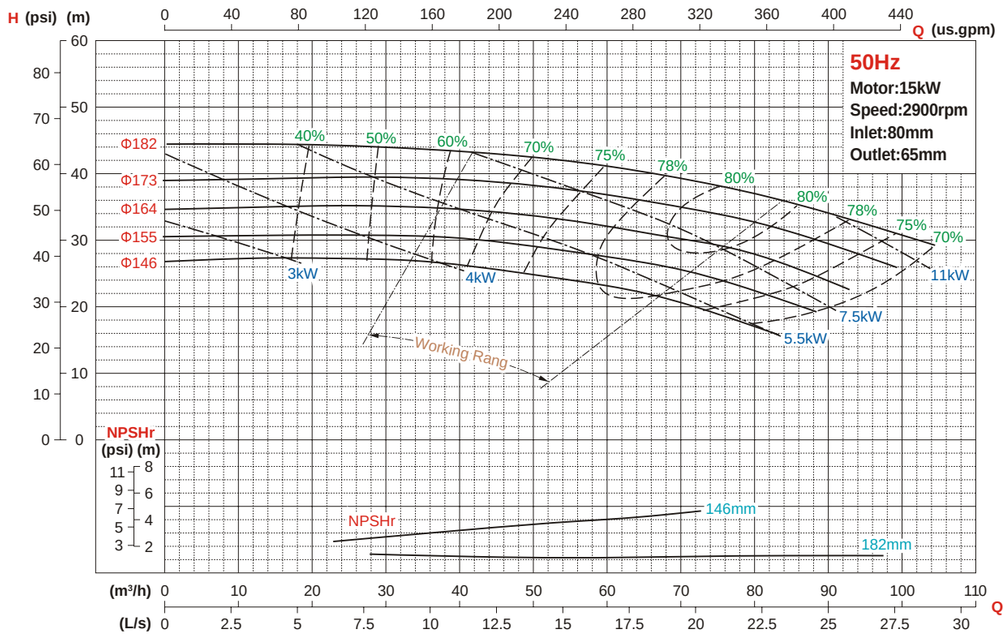
Performance Curve





ISO 100×65-200

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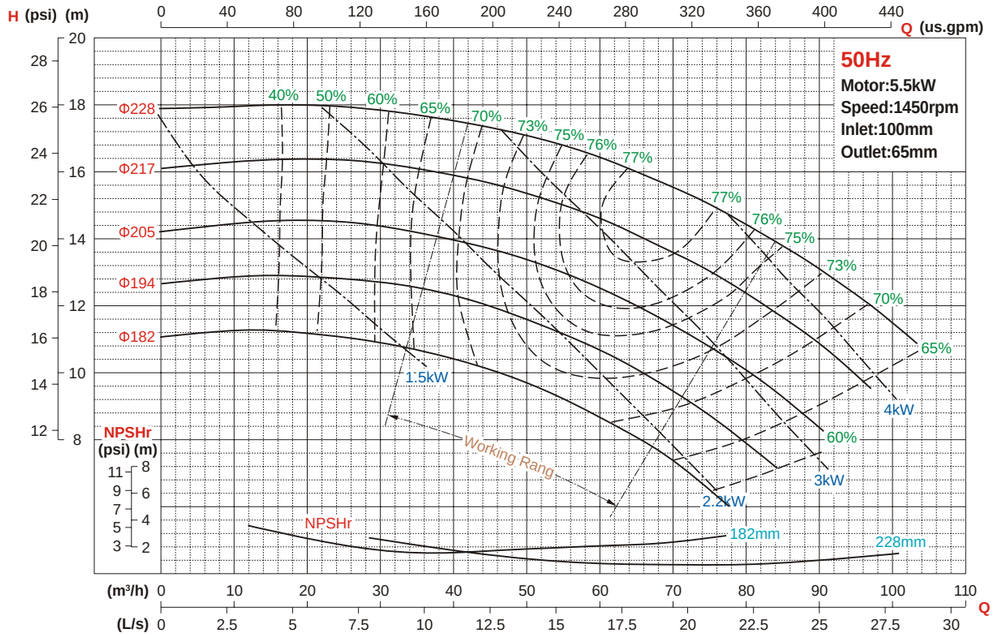
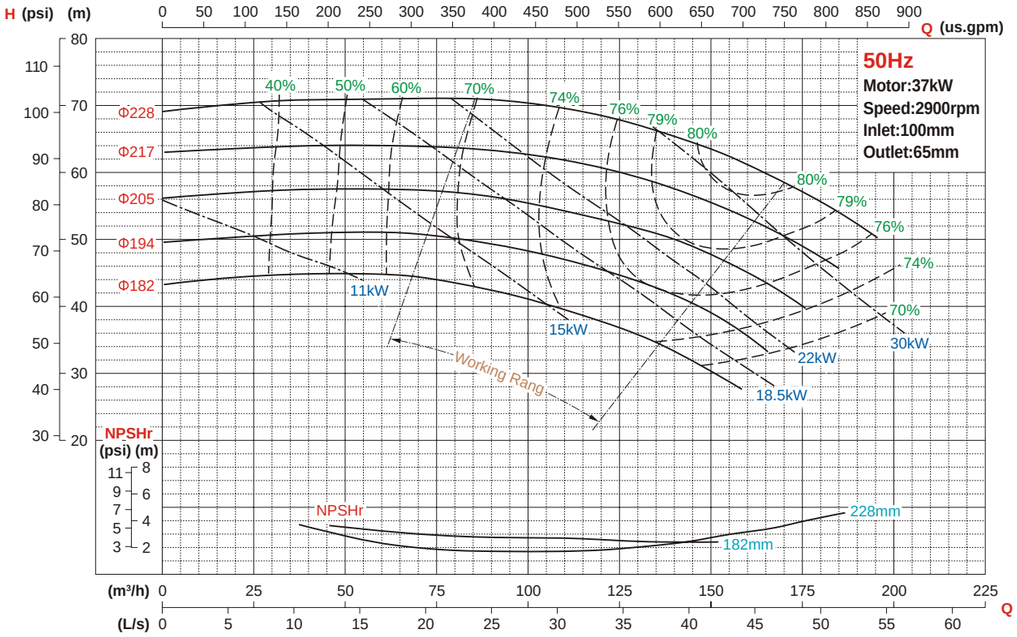
Performance Curve





ISO100×65-250

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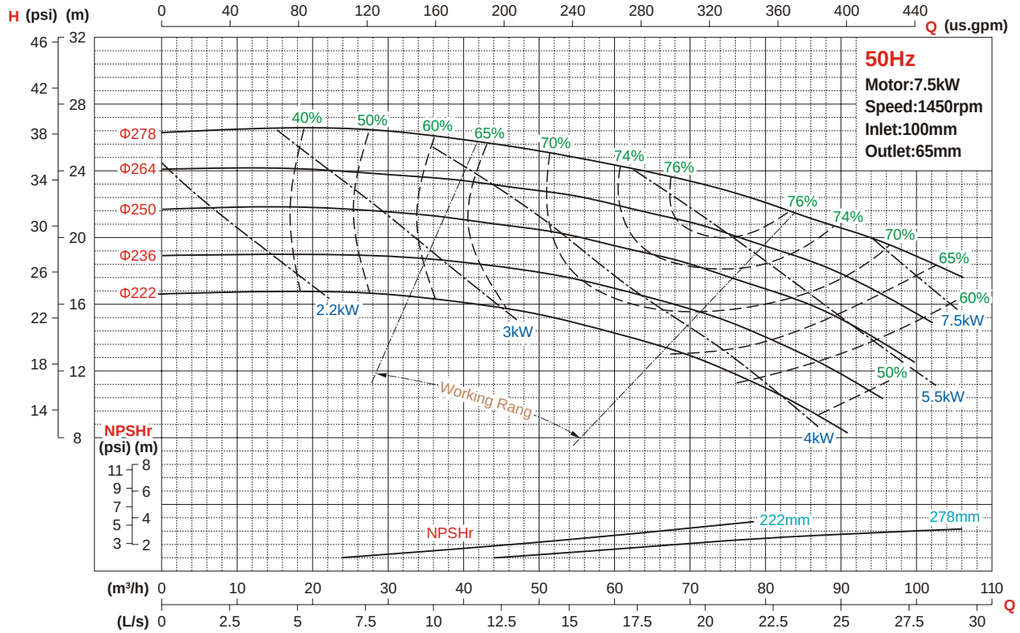
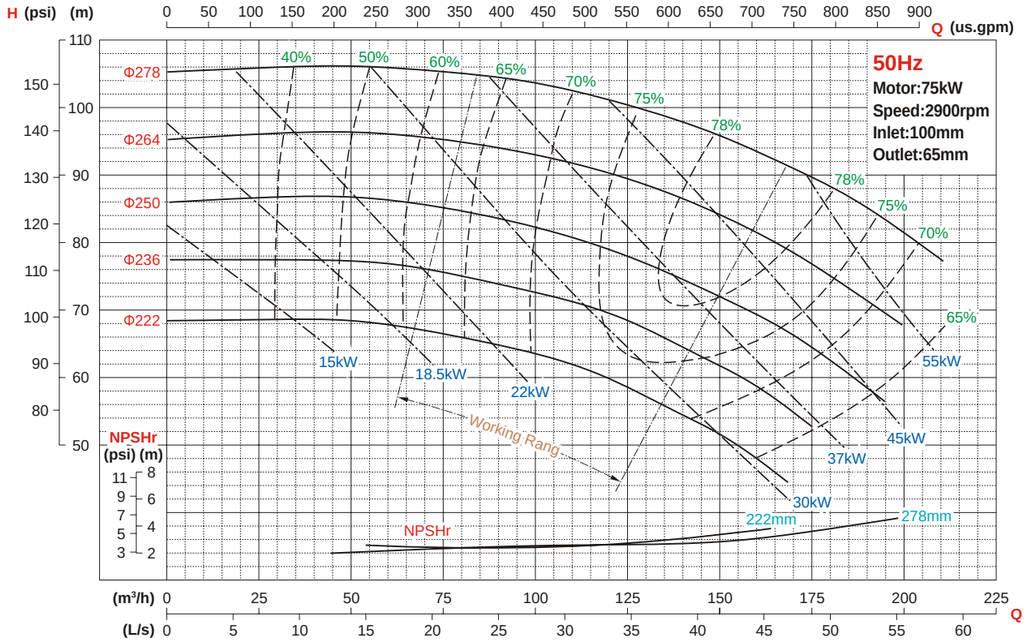
Performance Curve





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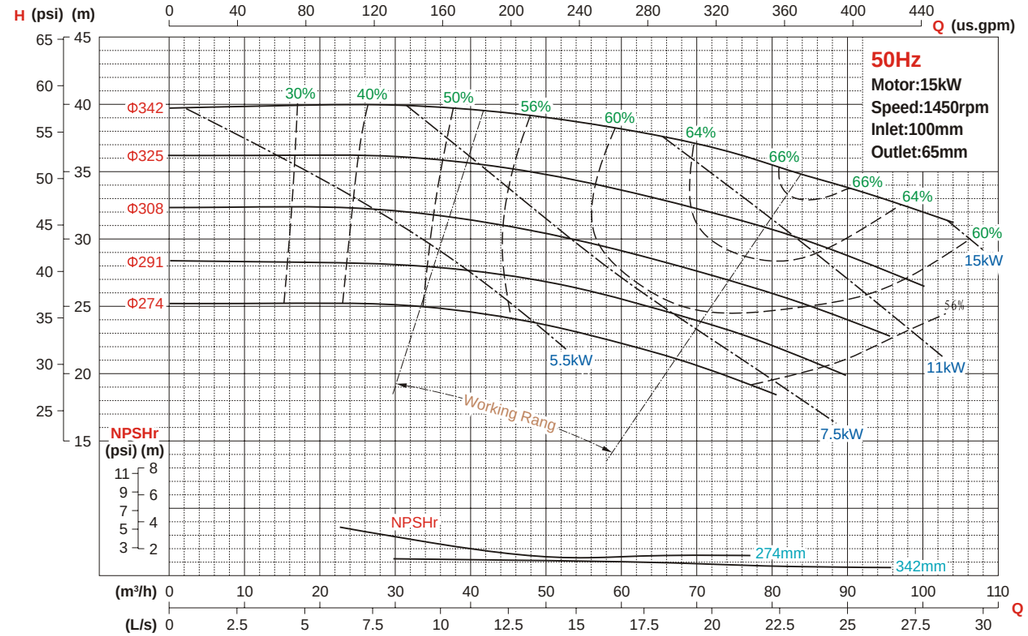
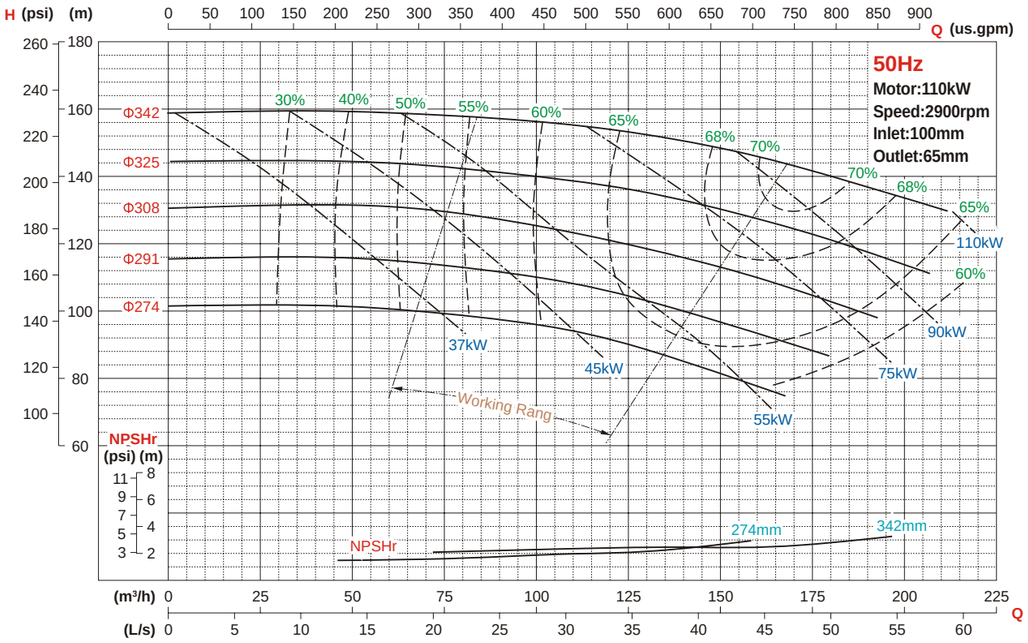
ISO100×65-315

Performance Curve





ISO100×80-160

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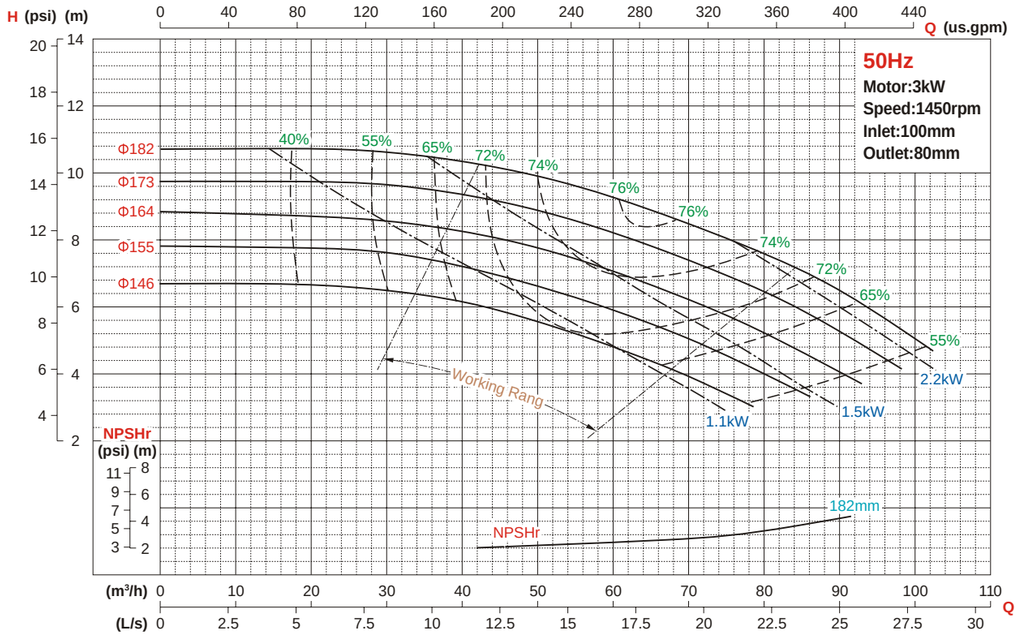
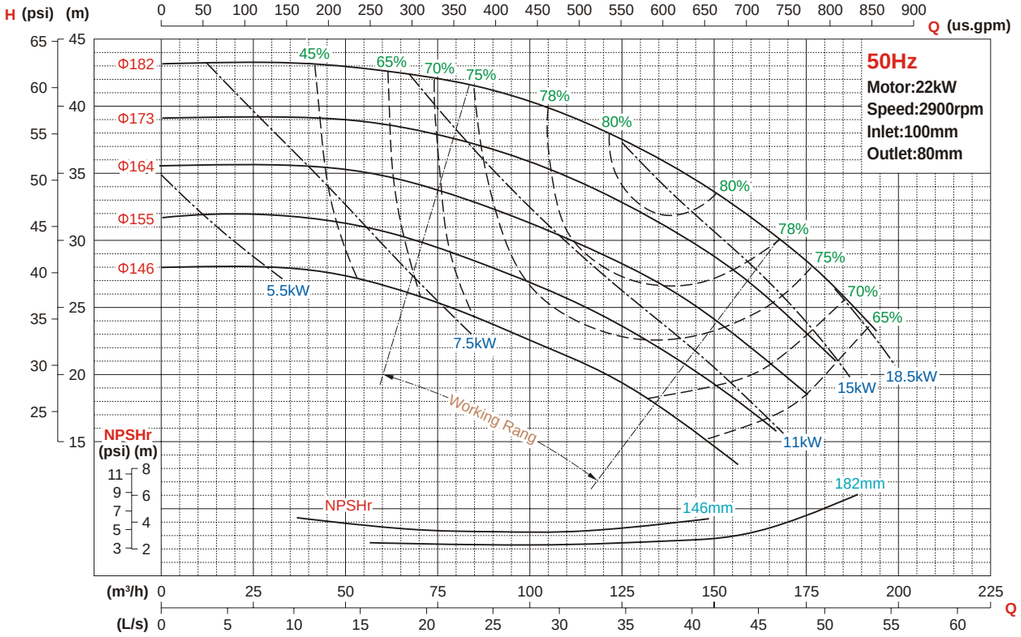
Performance Curve





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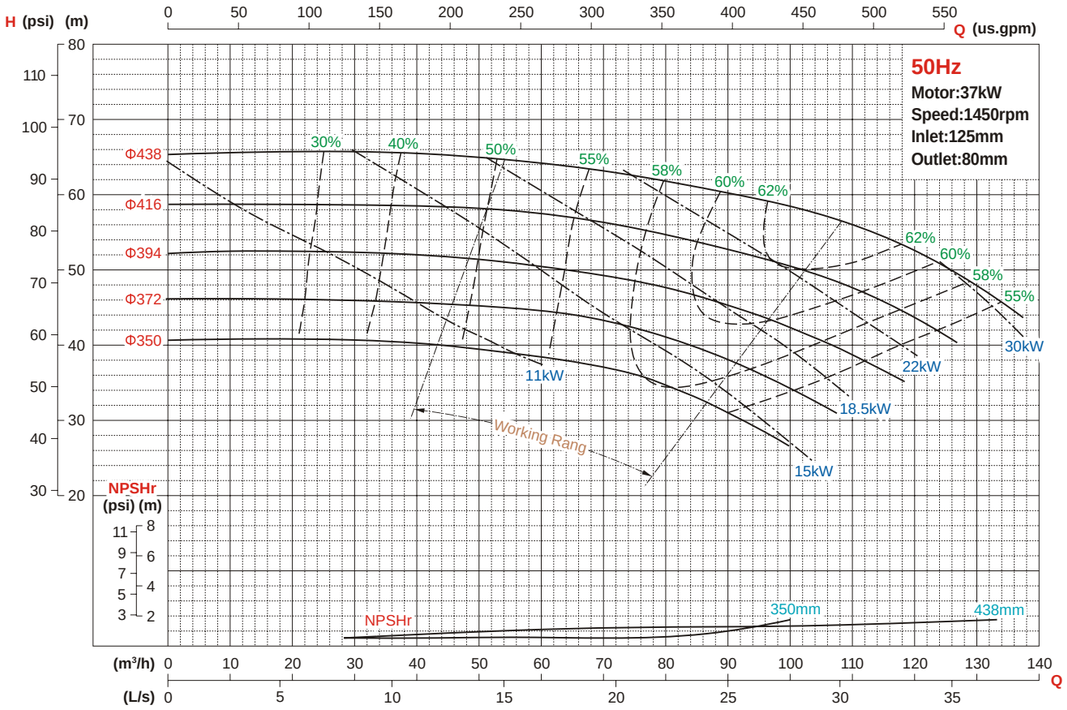
ISO125×80-400

Performance Curve



ISO125×100-200

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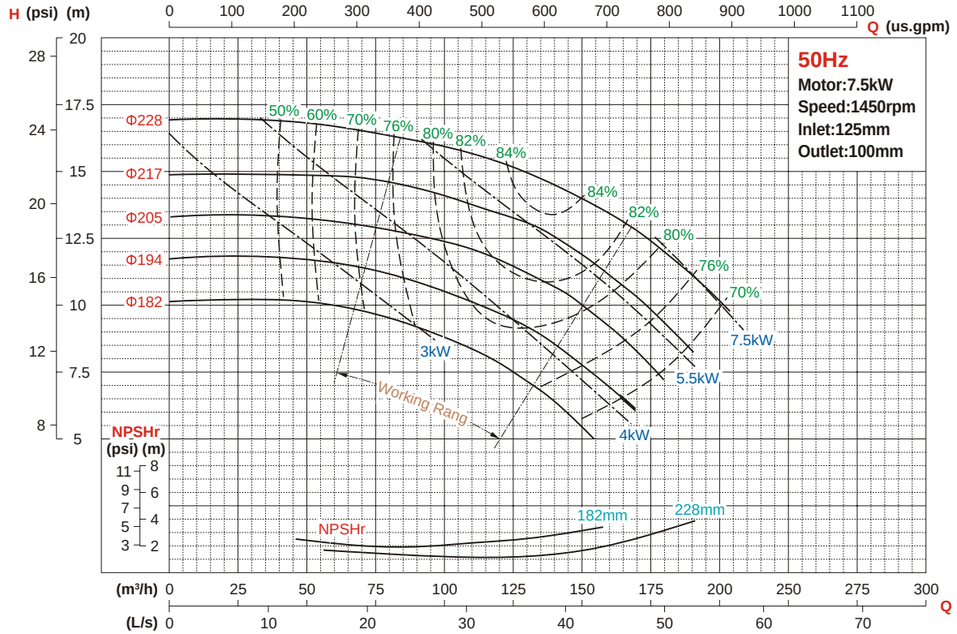
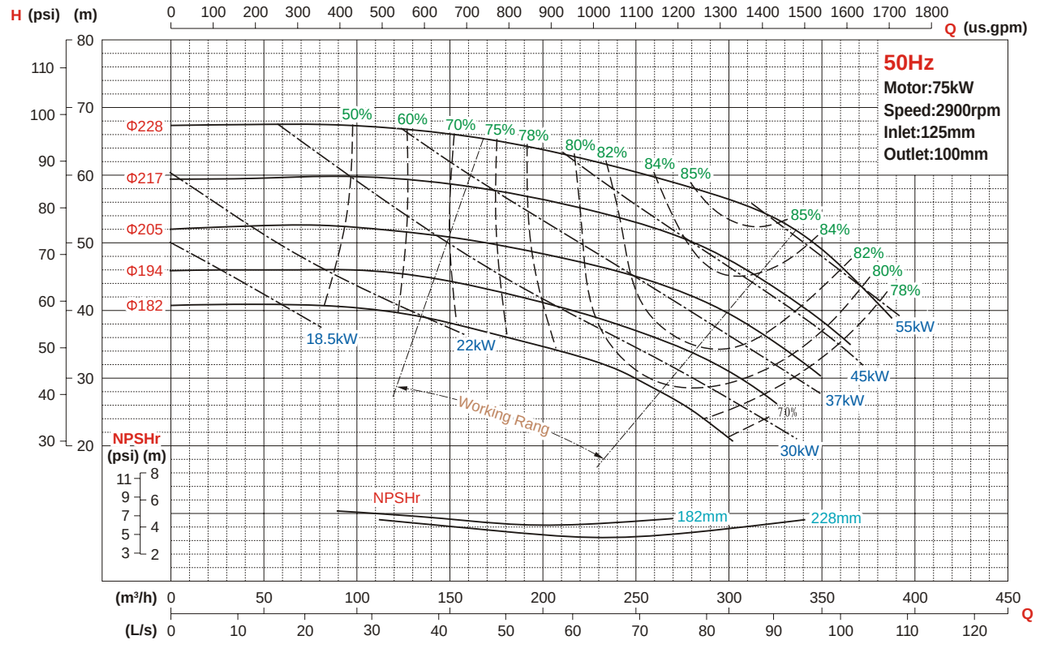
Performance Curve





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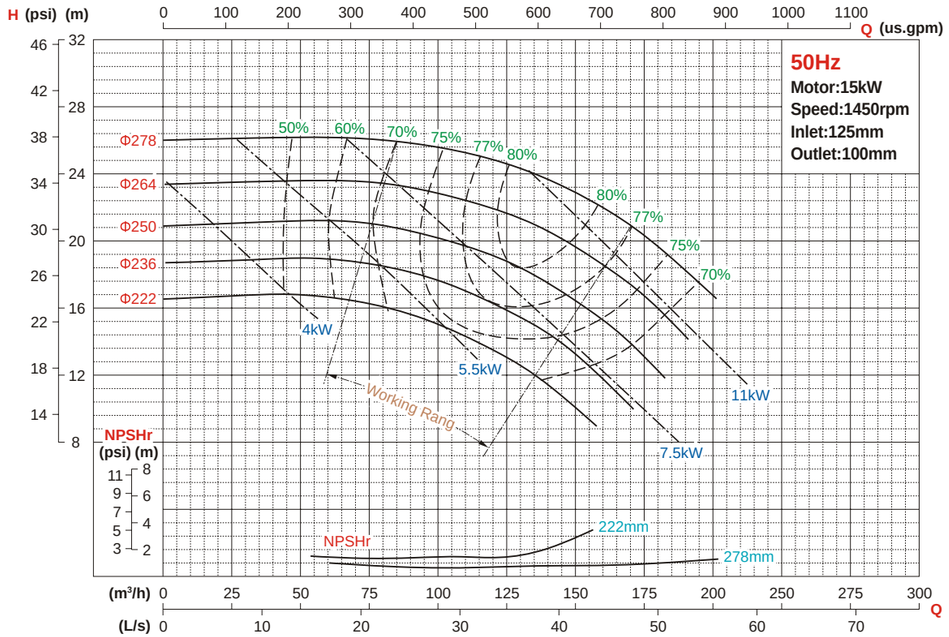
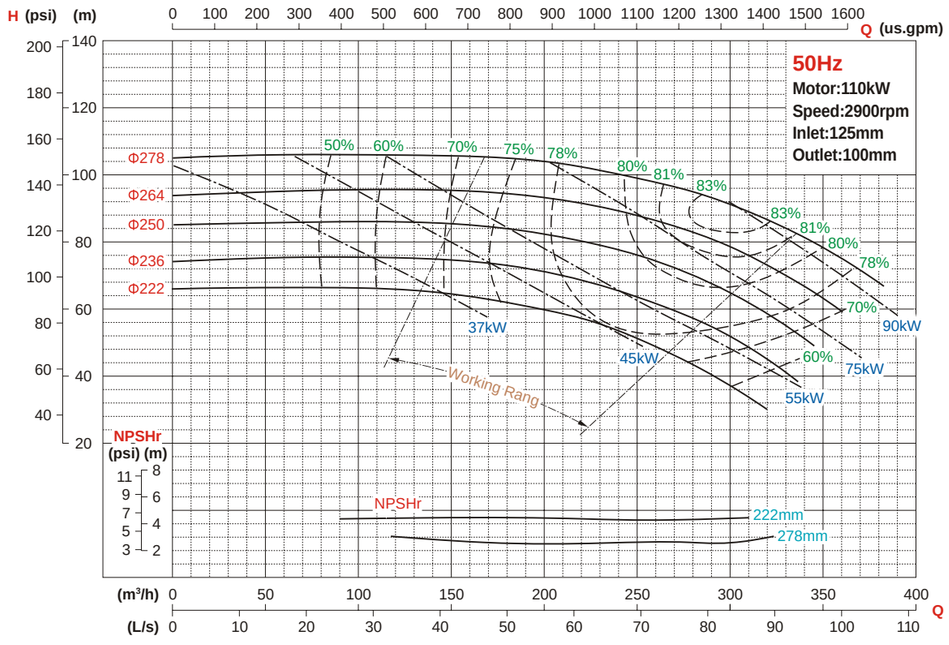
ISO125×100-250

Performance Curve





ISO125×100-315

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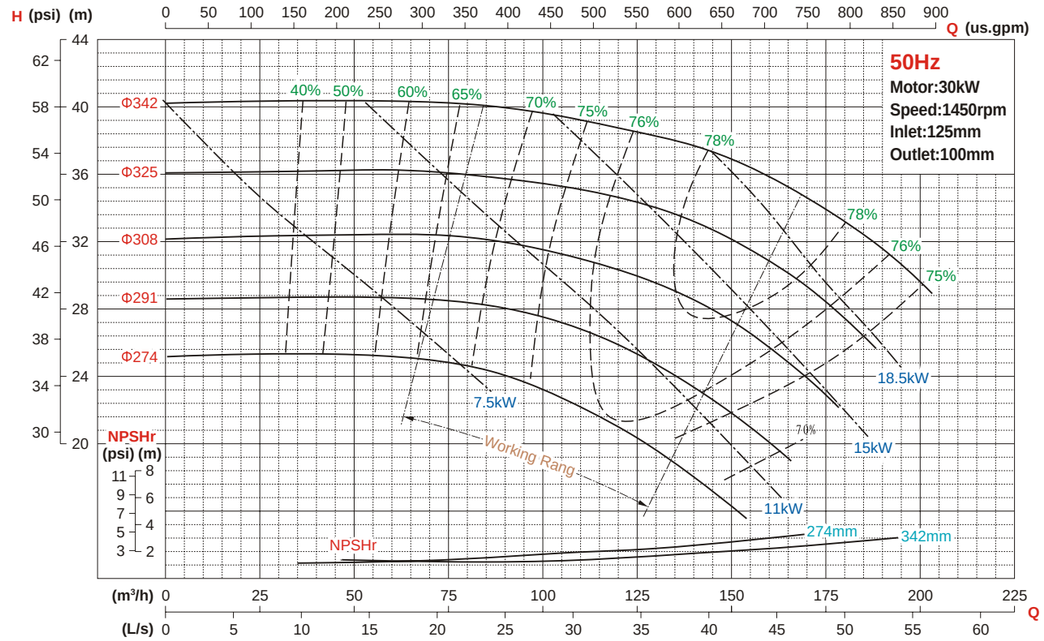
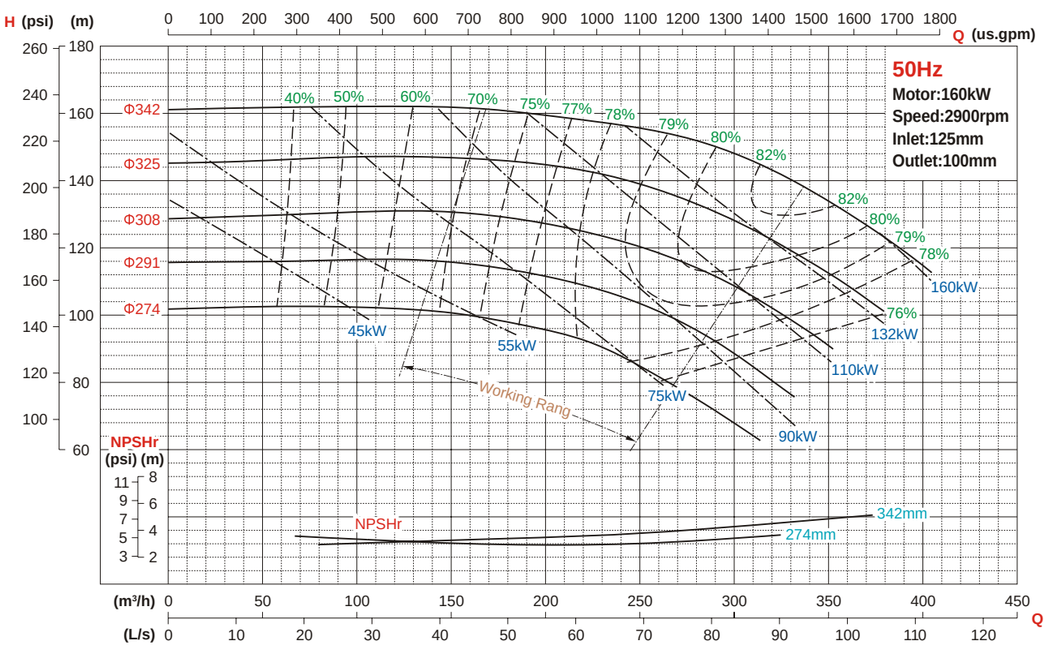
Performance Curve

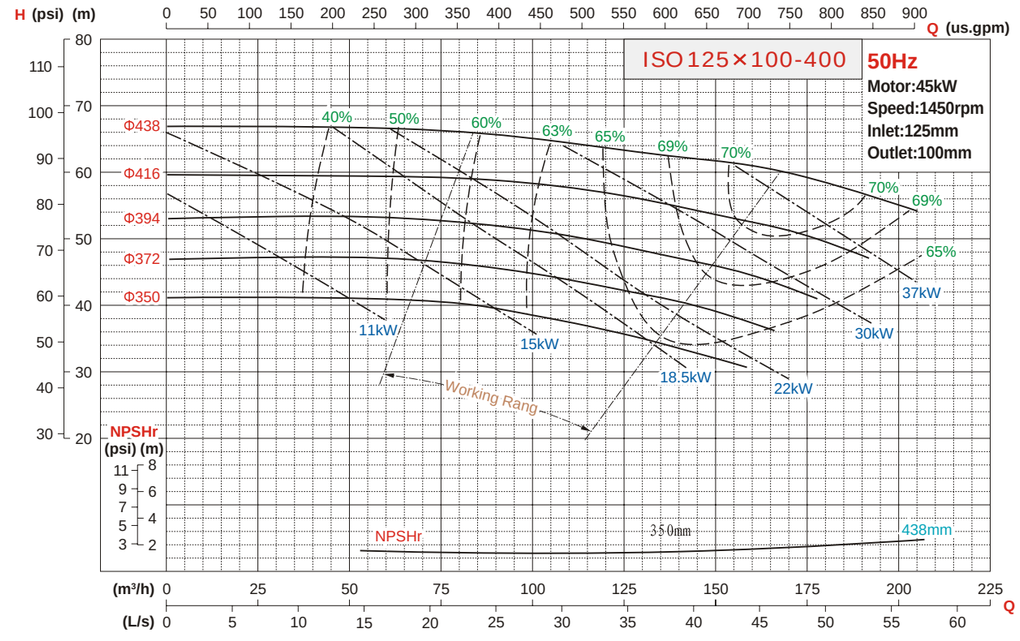


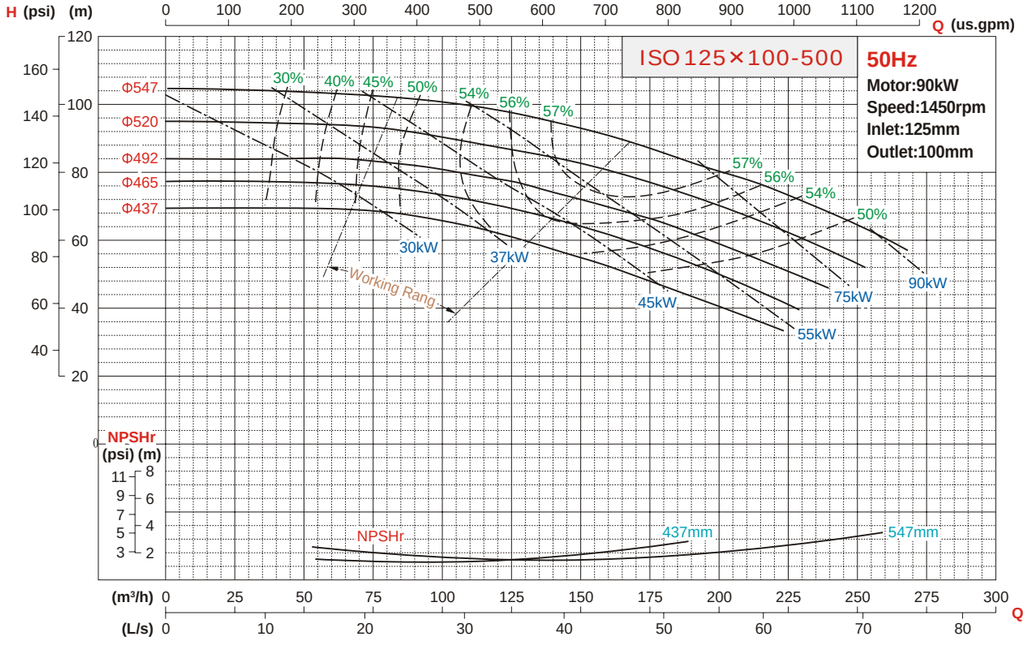


ISO125×100-400
ISO125×100-500

ZJ·BETTER®

Performance Curve

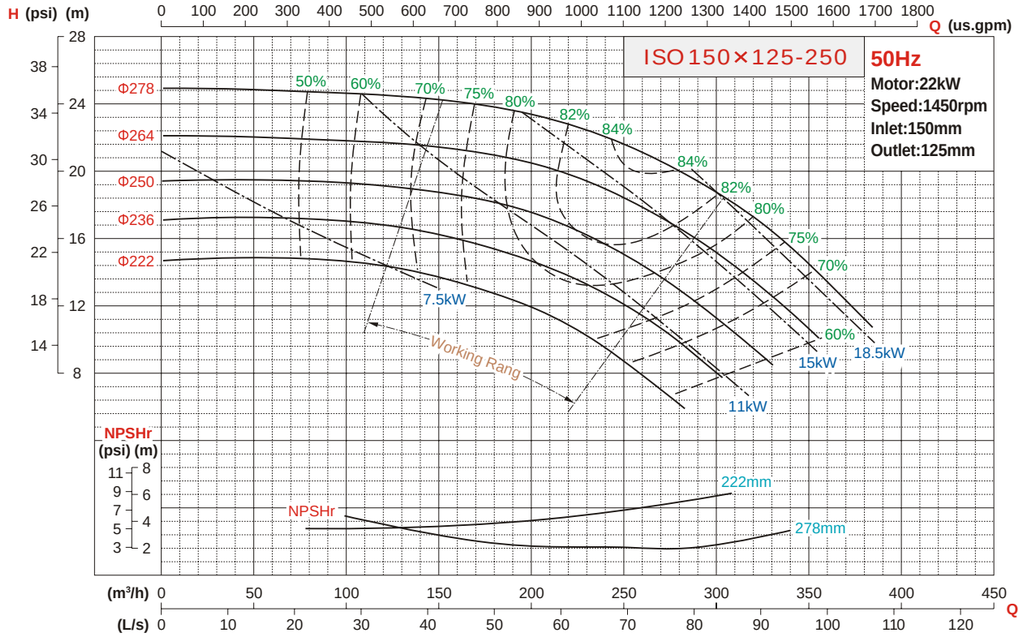


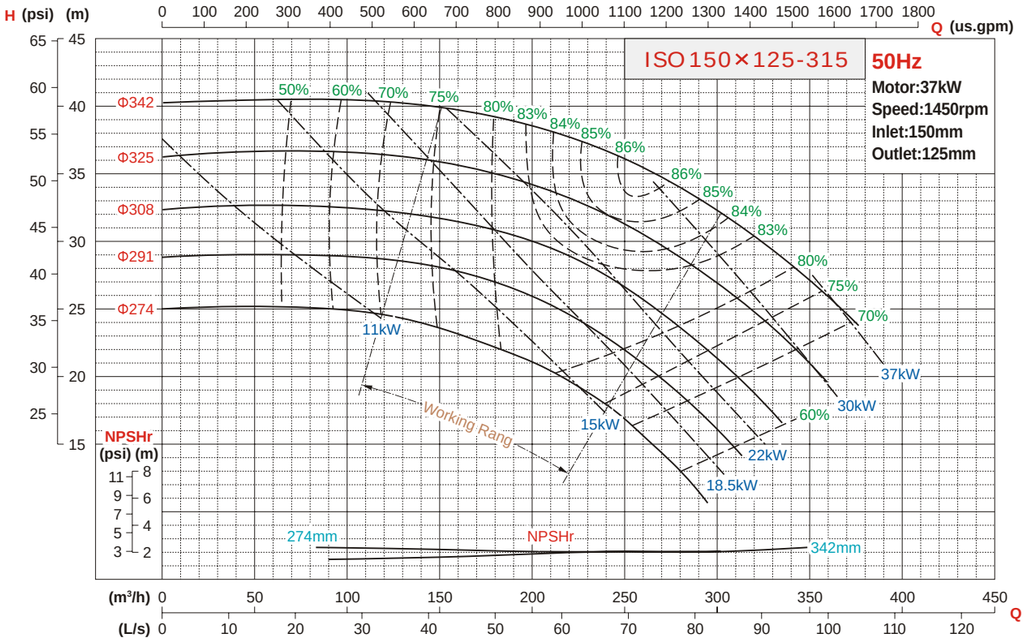


ISO150×125-250
ISO150×125-315

ZJ·BETTER®

Performance Curve





ISO150×125-400
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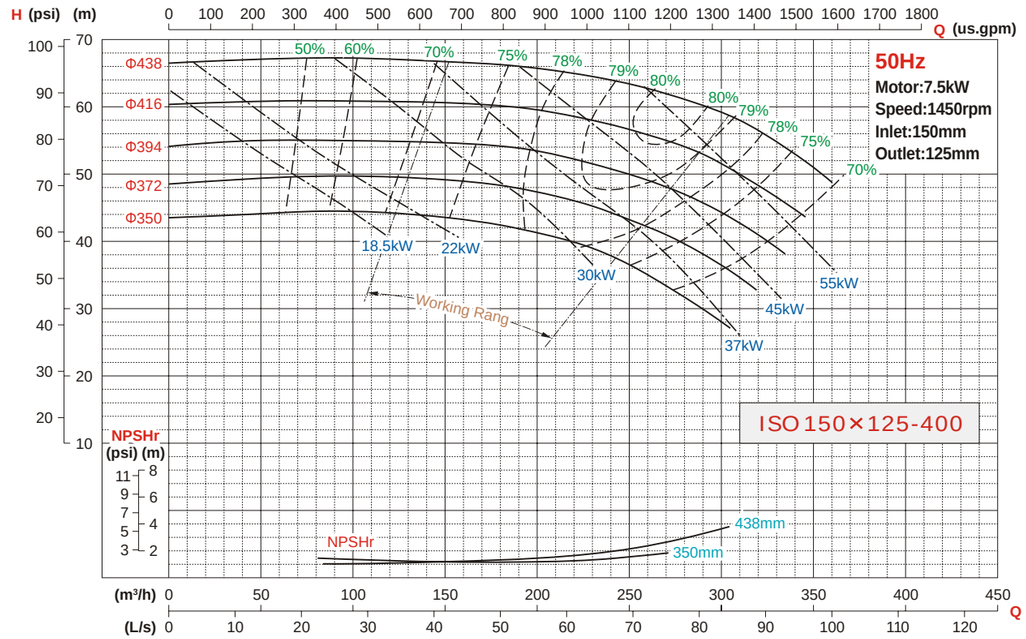
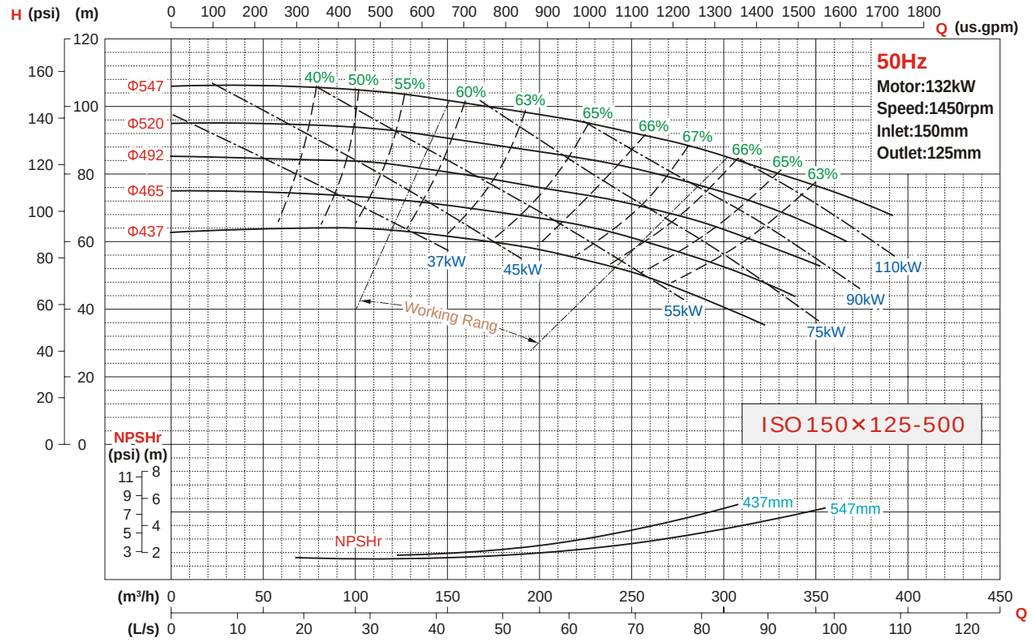
Performance Curve





ISO 150×150-250
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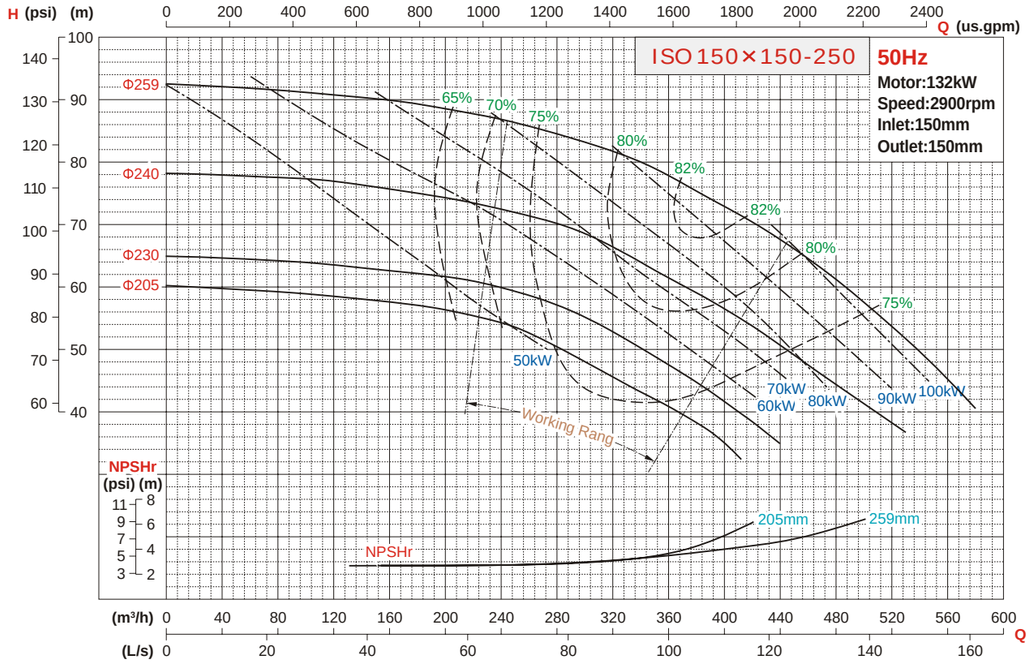
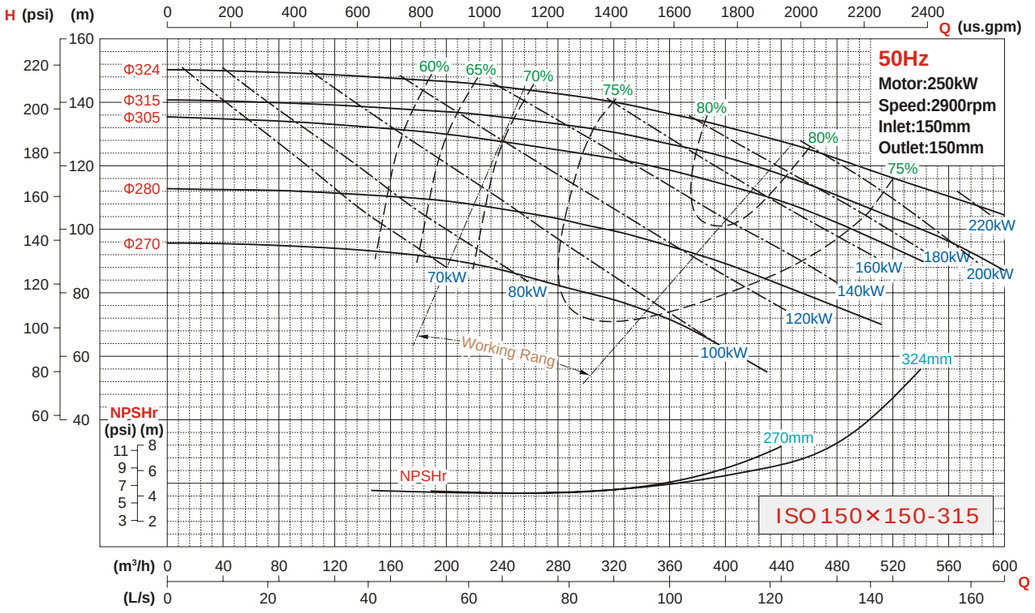
Performance Curve





ISO 150×150-400
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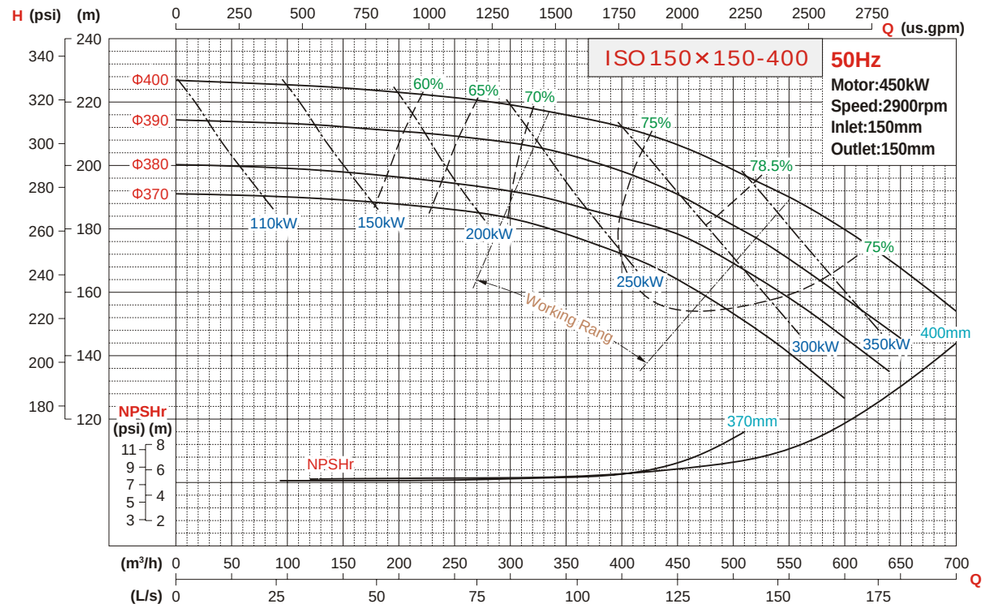
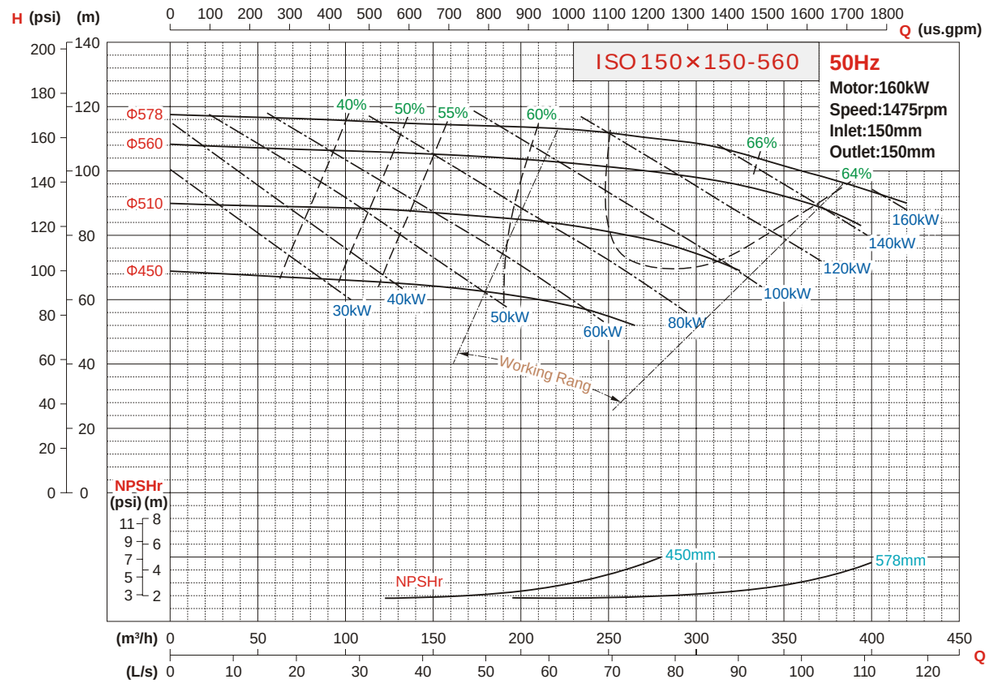
ZJ·BETTER®

Performance Curve

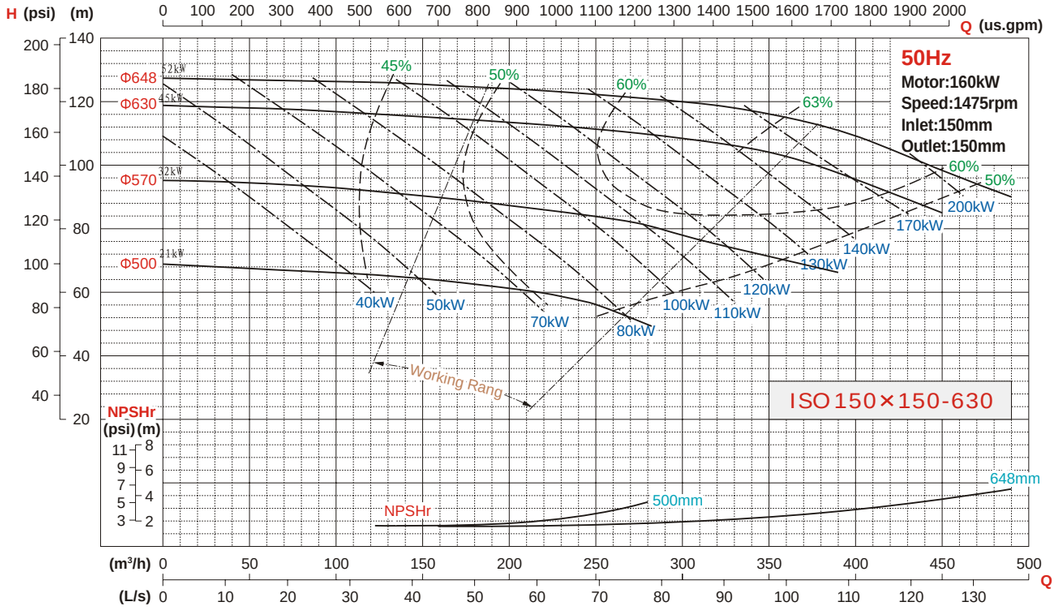


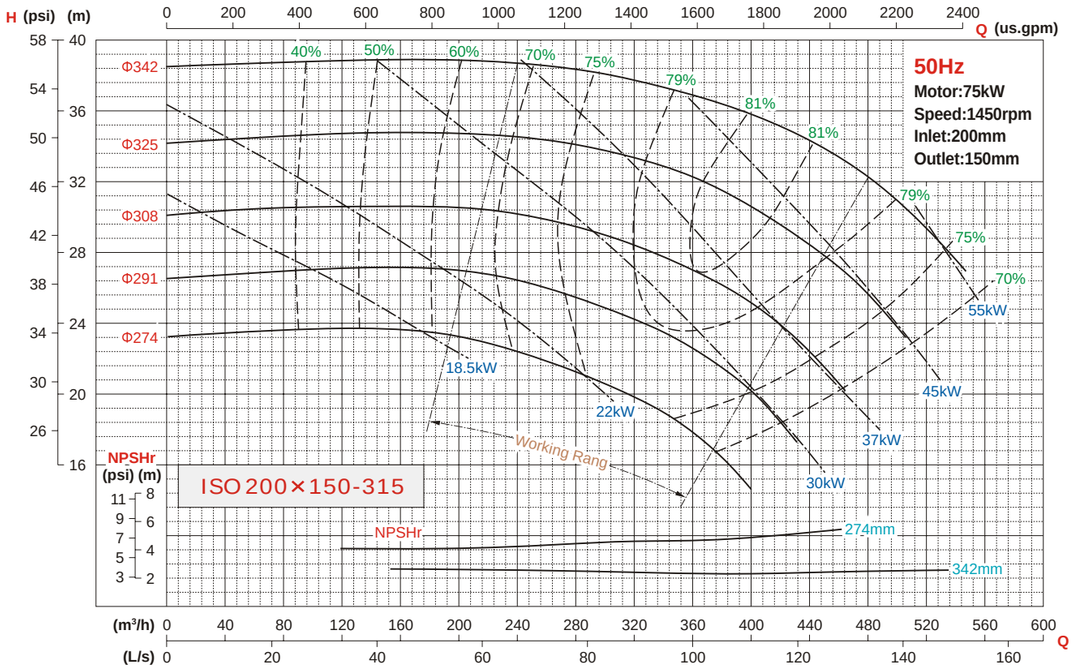


ISO 150×150-630
ISO 200×150-315

ZJ·BETTER®

Performance Curve





ISO 200×150-400
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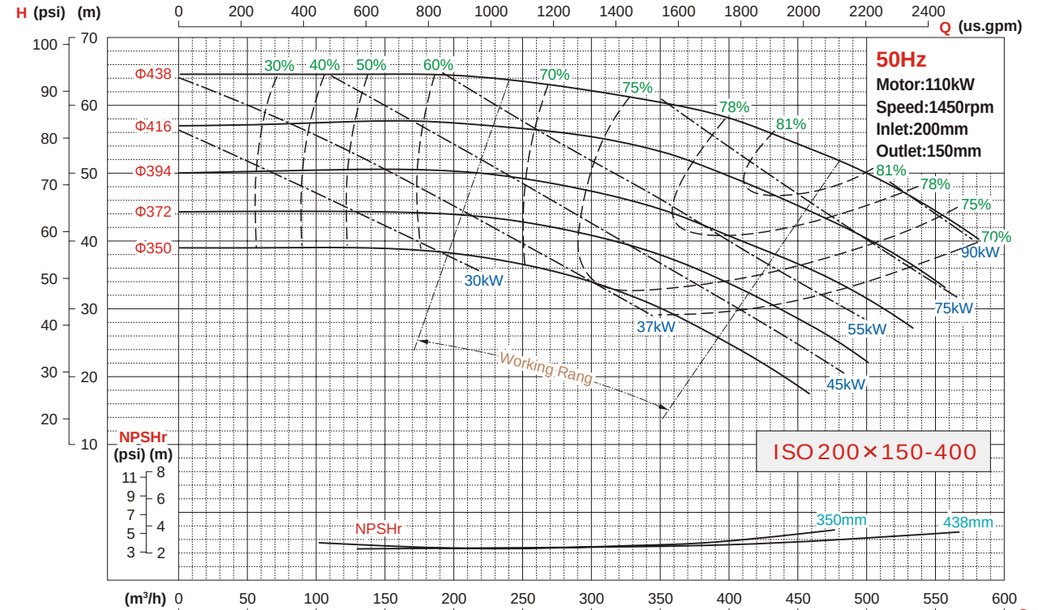
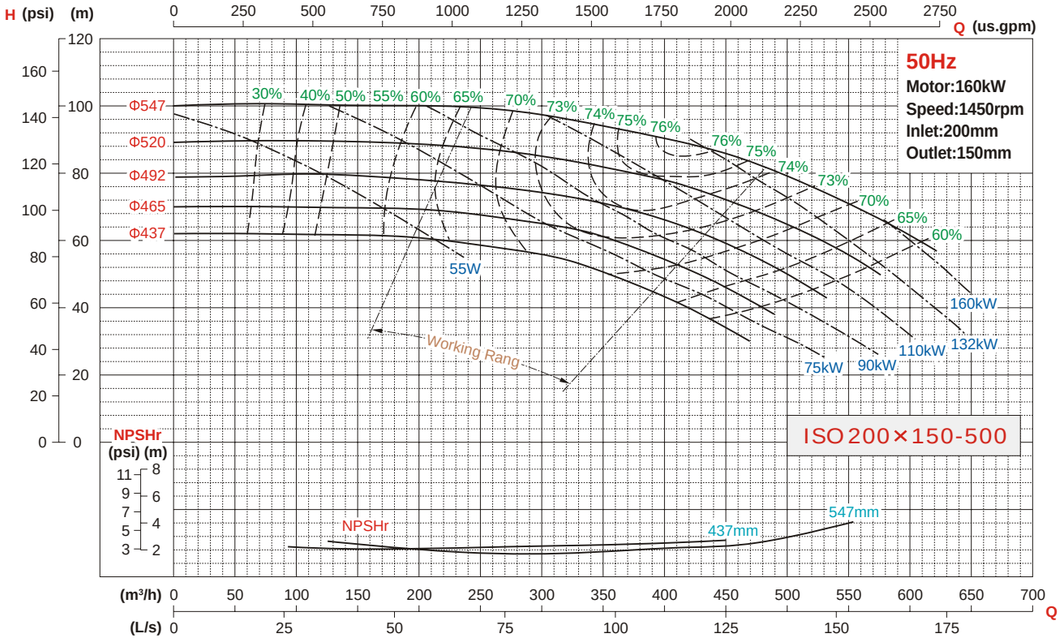
ZJ·BETTER®

Performance Curve





ISO200×200-315
ISO200×200-400

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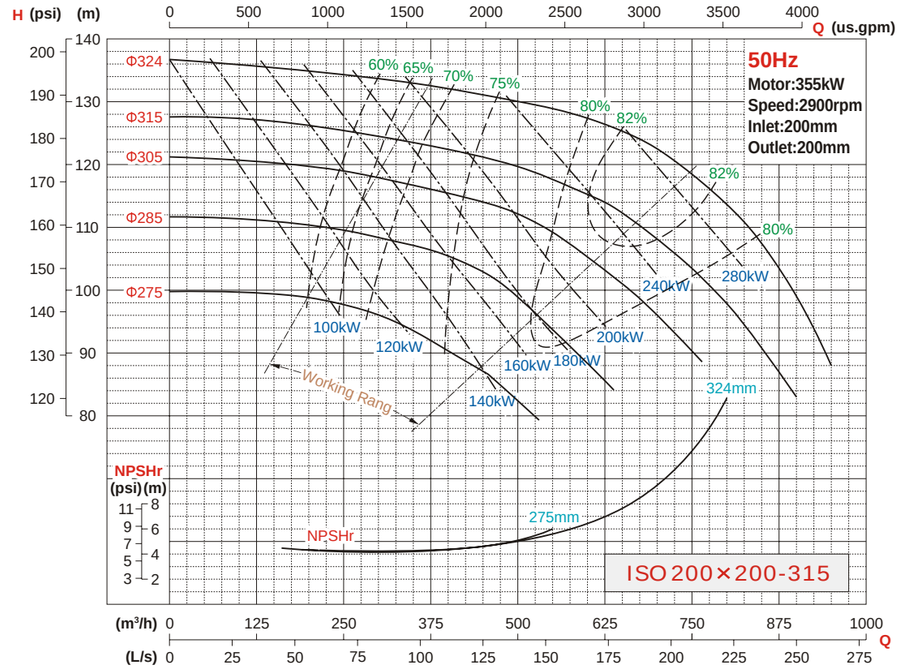
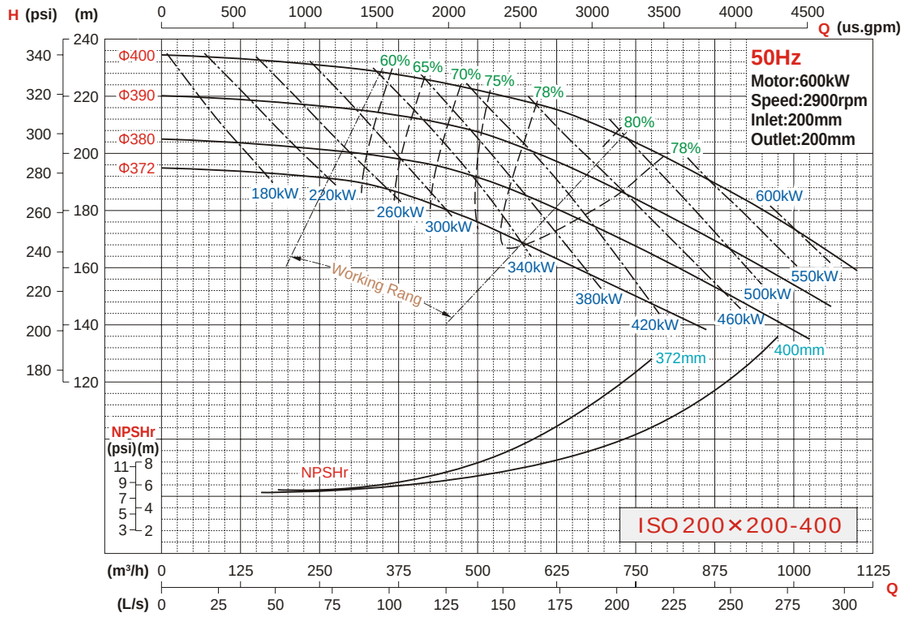
Performance Curve

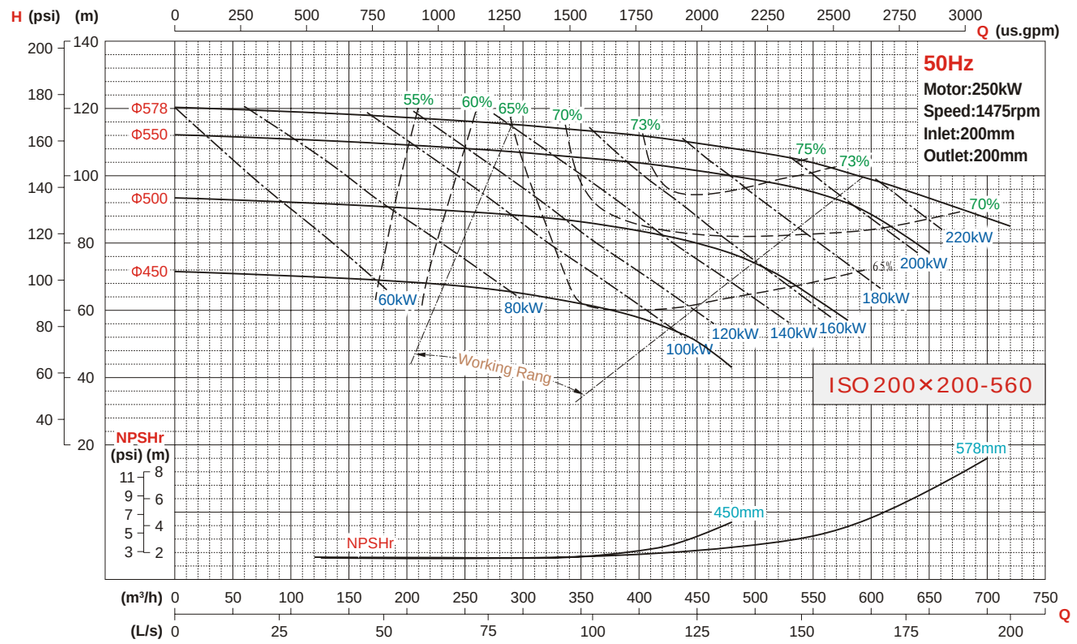


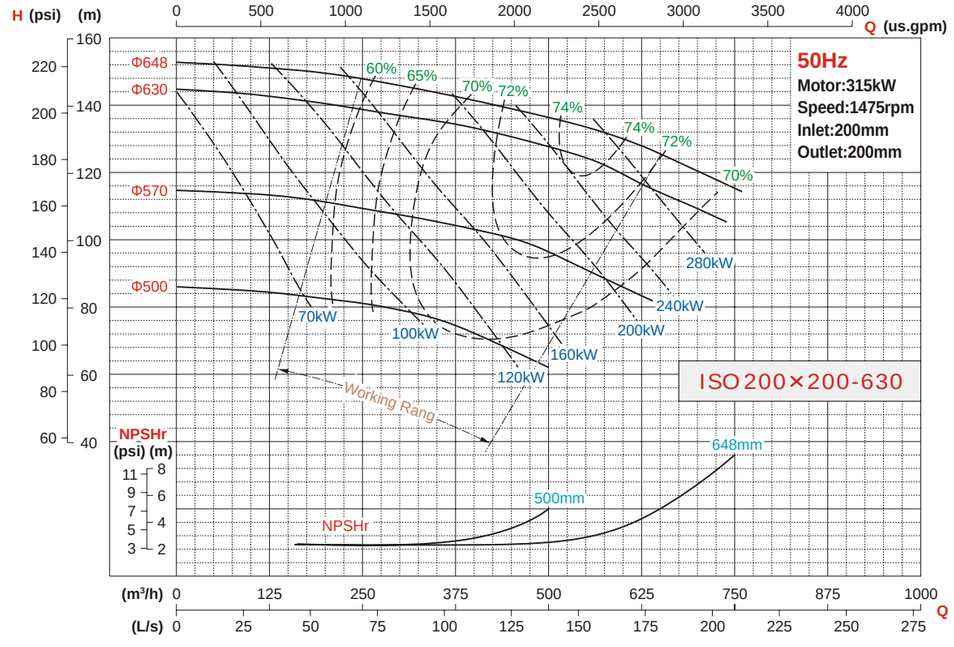


ISO200×200-560
ISO200×200-630

ZJ·BETTER®

Performance Curve

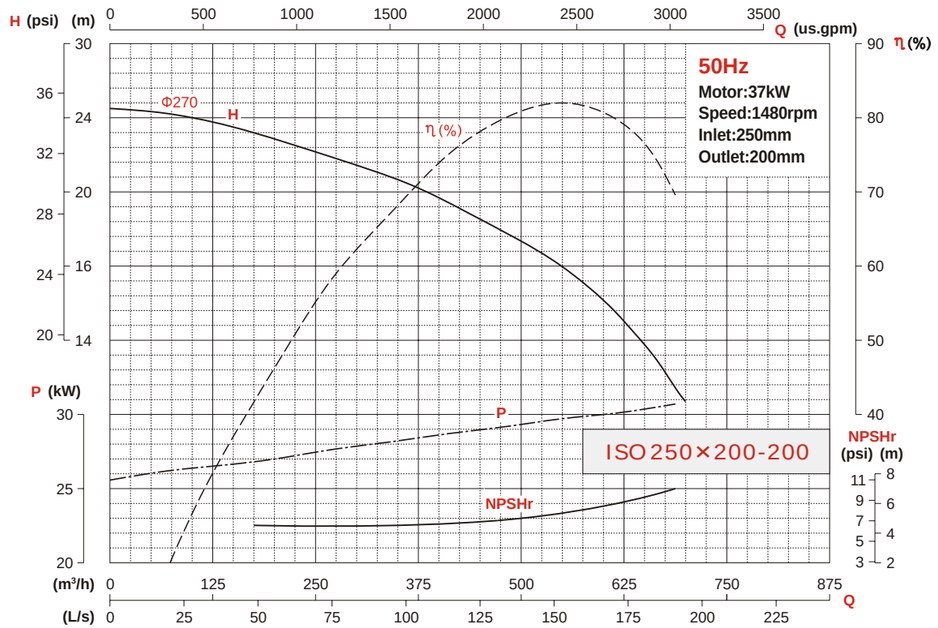


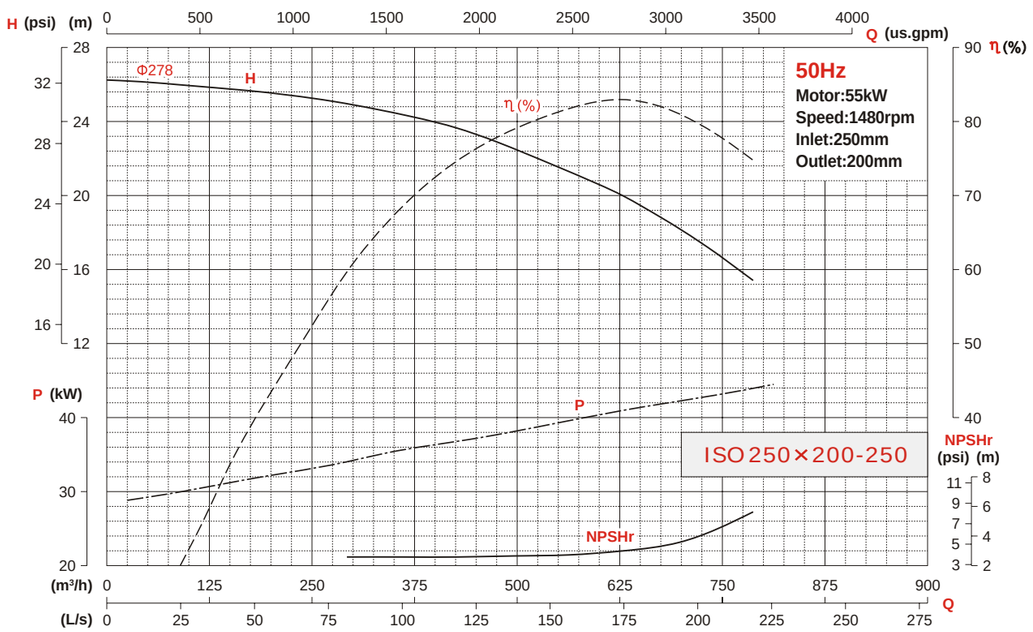


ISO250×200-200
ISO250×200-250

ZJ·BETTER

Performance Curve





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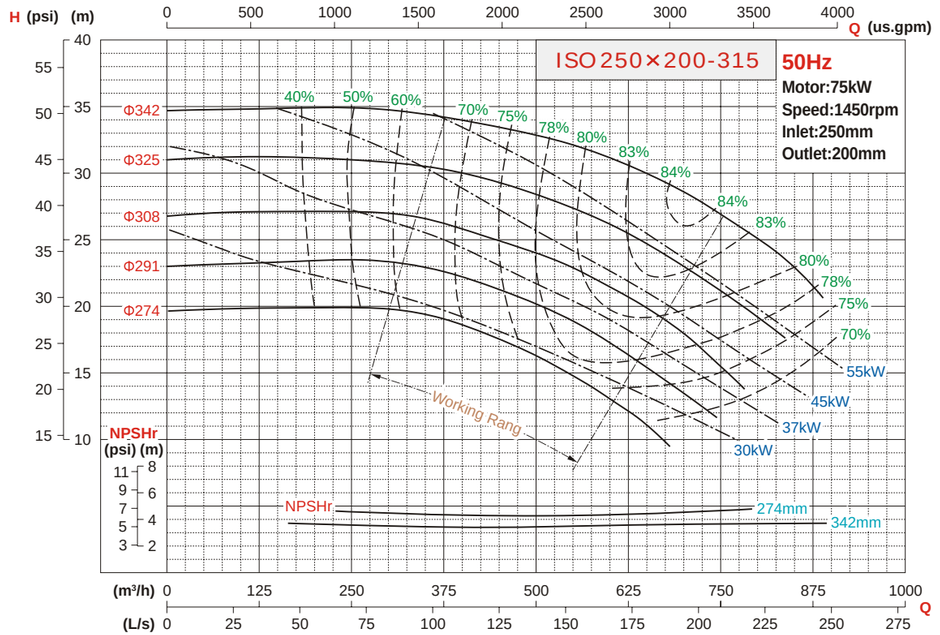
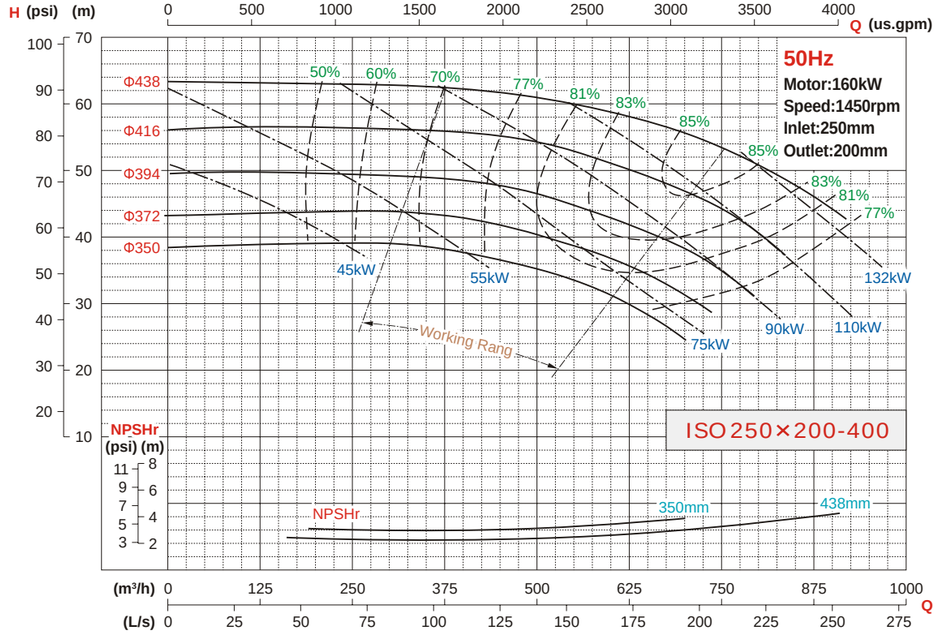
ISO250×200-315
ISO250×200-400

Performance Curve





ISO 250×200-500
ISO 250×250-560

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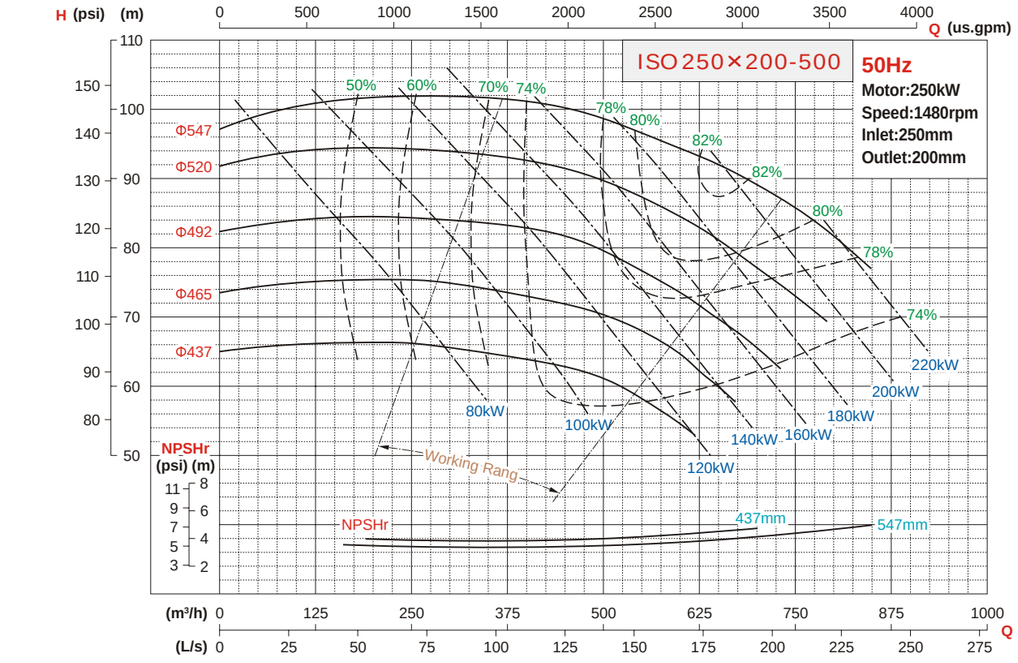
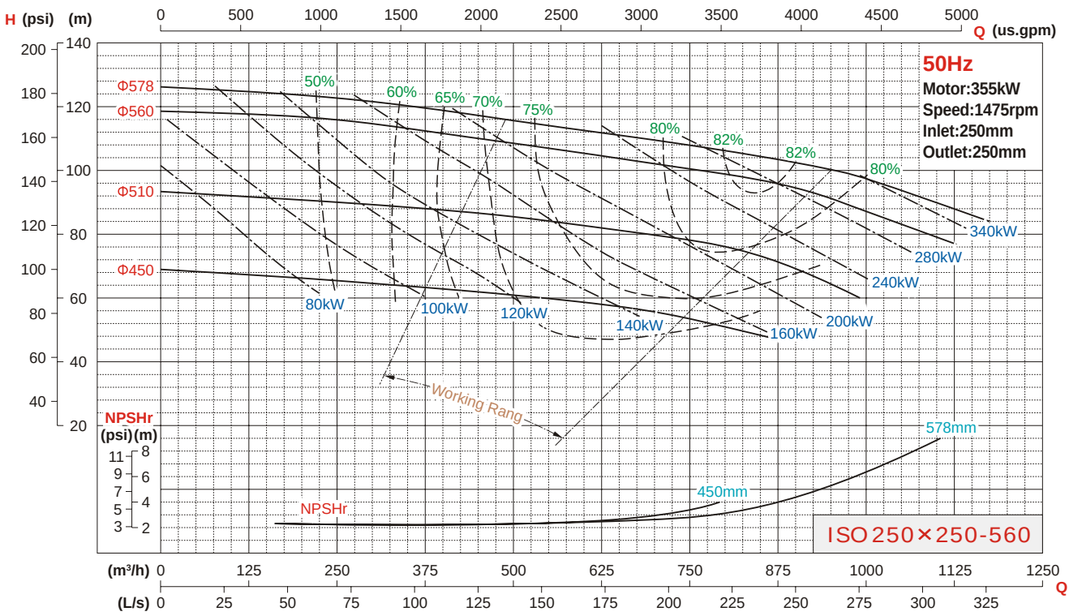
Performance Curve





ISO 250×250-630
ISO 300×250-250

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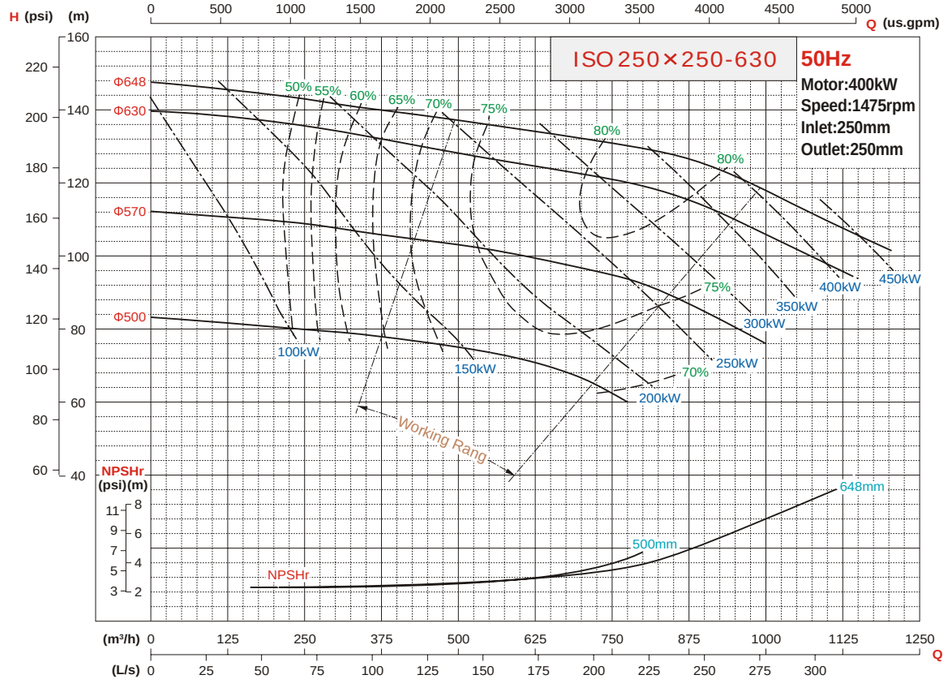
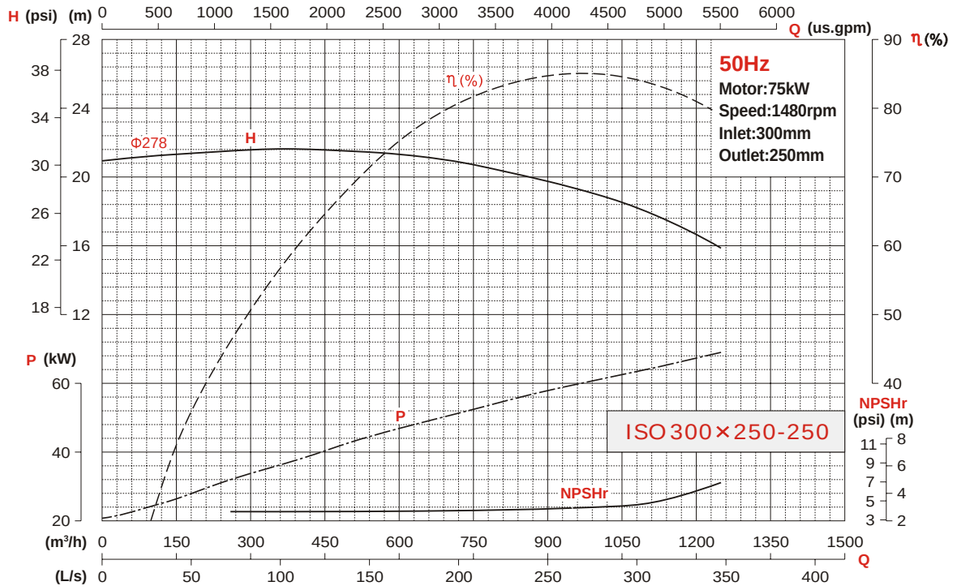
Performance Curve





ISO 300×250-315
ISO 300×250-400

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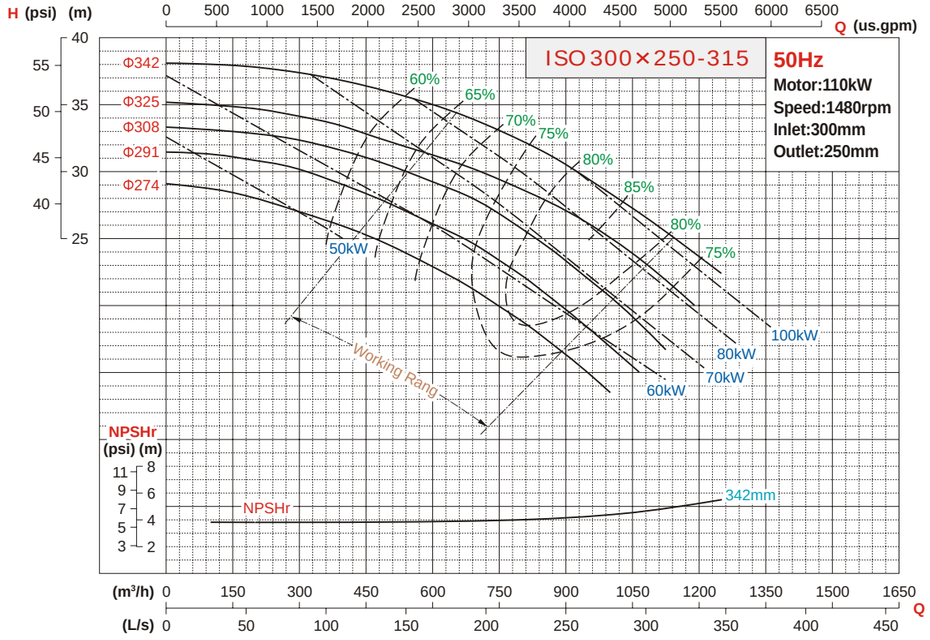
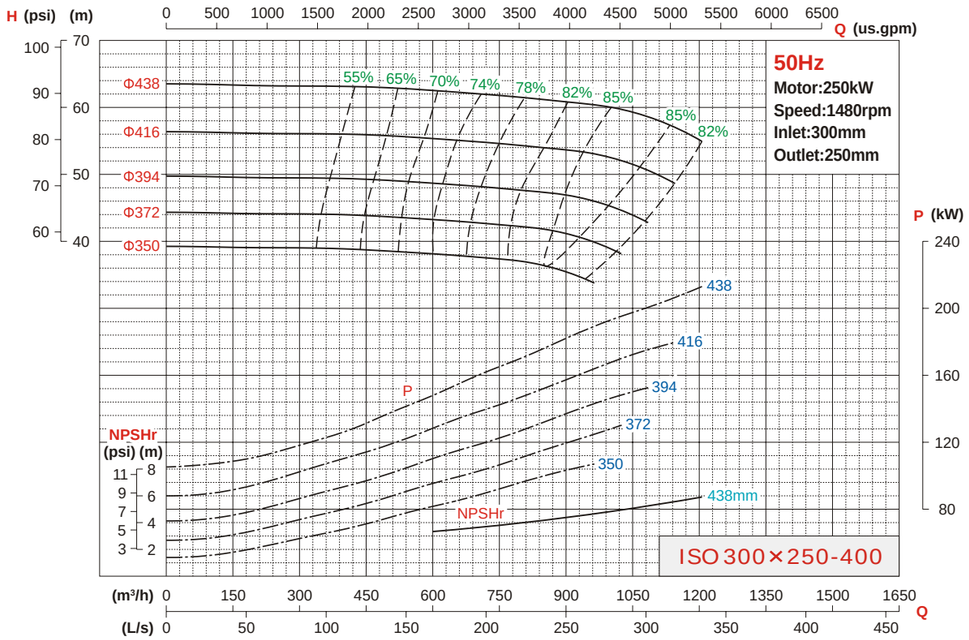
Performance Curve





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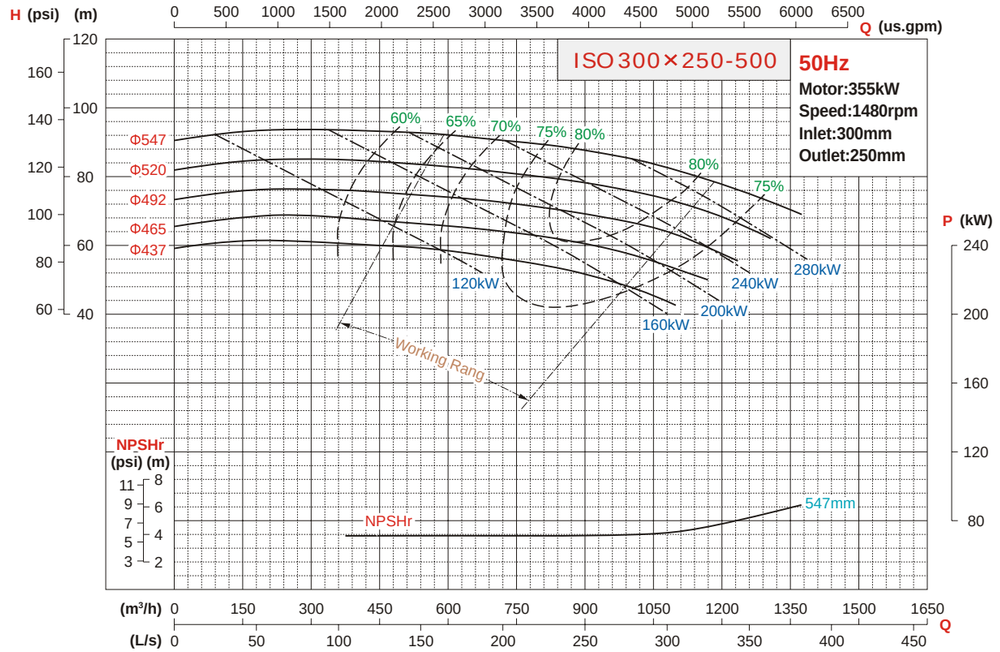
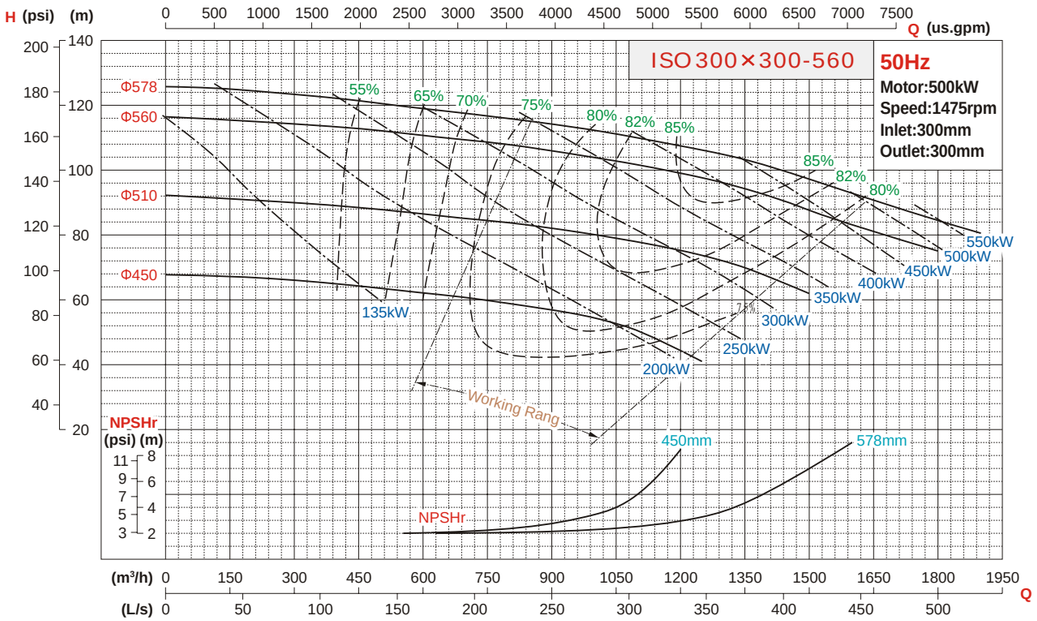
ISO 300×250-500
ISO 300×300-560

Performance Curve

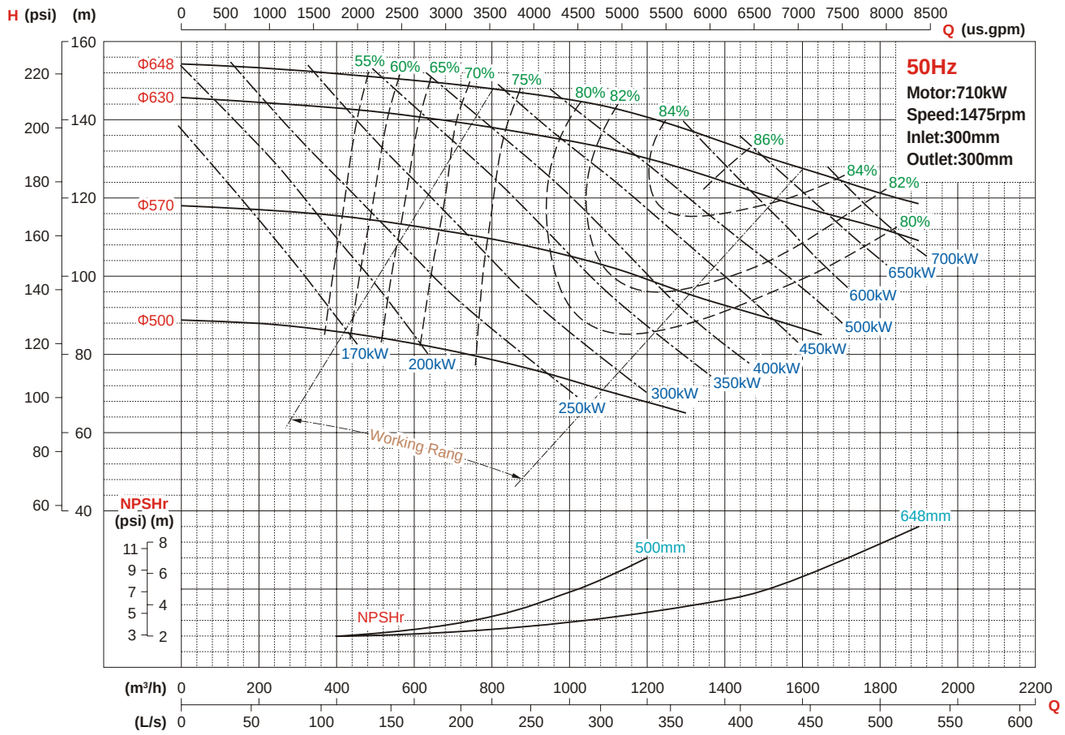




ISO 300×300-630

ZJ·BETTER®

Performance Curve



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THE BEST CIRCULATION
WATER SUPPLY EQUIPMENT
Energy-saving, Reliable, professional

Technical Data Sheet (Rated Speed: 2900rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 50×32-160	Φ182	16	4.5	71	43.5	63	3.53	4	YE3 132S₁-2 5.5kW	54	1.8	2.6
		23	6.4	101	40	58	4.04	5.5		62	2.4	3.5
		28	7.7	122	36	52	4.30	5.5		63	3	4.4
	Φ173	15	4.3	68	39.5	57	3.07	4	YE3 132S₁-2 5.5kW	54	1.8	2.6
		22	6.1	97	36	52	3.54	5.5		61	2.4	3.5
		26	7.3	116	33	48	3.80	5		62.5	3	4.4
	Φ164	15	4.1	65	35.5	51	2.58	3	YE3 112M-2 4kW	55	1.8	2.6
		21	5.8	92	32.5	47	3.05	4		61	2.4	3.5
		25	7	111	28.7	42	3.20	4		61.5	3	4.4
	Φ155	14	3.9	62	31.5	46	2.27	3	YE3 112M-2 4kW	53	1.9	2.8
		20	5.6	88	28.5	41	2.63	4		59	2.5	3.6
		24	6.7	106	25.5	37	2.92	4		57	3.2	4.6
	Φ146	13	3.7	59	27.5	40	1.99	3	YE3 100L-2 3kW	50	1.9	2.8
		19	5.3	84	25.5	37	2.26	3		58.5	2.5	3.6
		23	6.3	100	22	32	2.48	3		55	3.2	4.6
ISO 50×32-200	Φ228	16	4.5	71	68.5	99	6.60	7.5	YE3 160M₁-2 11kW	45.5	1.4	2
		23	6.4	101	65	94	7.54	11		54	2	2.9
		28	7.7	122	58	84	7.93	11		55	2.6	3.8
	Φ217	15	4.3	68	62	90	5.91	7.5	YE3 160M₁-2 11kW	44	1.4	2
		22	6.1	97	57.5	83	6.50	11		53	2	2.9
		26	7.3	116	52	75	6.92	11		54	2.6	3.8
	Φ205	15	4.1	65	54	78	4.80	5.5	YE3 132S₂-2 7.5kW	45	1.4	2
		21	5.8	92	50	73	5.55	7.5		51.5	2.3	3.3
		25	7	111	44	64	5.86	7.5		51.5	1.6	2.3
	Φ194	14	3.9	62	48.5	70	4.11	5.5	YE3 132S₁-2 5.5kW	45	1.9	2.8
		20	5.6	88	44	64	4.70	5.5		51	2.5	3.6
		24	6.7	106	37	54	4.94	5.5		49	3.2	4.6
	Φ182	13	3.7	59	42	61	3.38	4	YE3 132S₁-2 5.5kW	45	2.5	3.6
		19	5.3	84	37.5	54	3.80	5.5		51	3.1	4.5
		23	6.3	100	29.5	43	3.90	5.5		47	3.7	5.4
ISO 65×50-160	Φ182	25	7	111	44	64	4.79	5.5	YE3 132S₂-2 7.5kW	63	1.6	2.3
		36	10	159	40	58	5.60	7.5		70	2	2.9
		43	12	190	36	52	6.23	7.5		68	2.6	3.8
	Φ173	24	6.6	105	40	58	4.18	5.5	YE3 132S₂-2 7.5kW	62	1.6	2.3
		34	9.4	150	36.5	53	4.93	7.5		68.5	2	2.9
		41	11.3	180	32	46	5.31	7.5		67	2.6	3.8
	Φ164	22	6.2	99	36	52	3.63	4	YE3 132S₁-2 5.5kW	60.5	1.6	2.3
		32	8.9	141	33	48	4.29	5.5		67	2	2.9
		38	10.7	169	29	42	4.67	5.5		65	2.6	3.8
	Φ155	21	5.8	92	32	46	3.13	4	YE3 132S₁-2 5.5kW	58.5	1.1	1.6
		30	8.3	132	29	42	3.76	5.5		63	1.5	2.2
		36	10	159	25	36	3.95	5.5		62	2.3	3.3
	Φ146	20	5.4	86	28	41	2.62	3	YE3 112M-2 4kW	57	1.1	1.6
		28	7.8	123	25	36	3.00	4		63.5	1.5	2.2
		34	9.3	148	22	32	3.53	4		57	2.3	3.3

Technical Data Sheet (Rated Speed: 2900rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 65×40-200	Φ228	25	7	111	69.5	101	7.69	11	YE3 160M$_2$-2 15kW	62	1.9	2.8
		36	10	159	66	96	9.52	15		68	2	2.9
		43	12	190	61.5	89	10.3	15		70	2.7	3.9
	Φ217	24	6.6	105	63	91	6.75	7.5	YE3 160M$_1$-2 11kW	60.5	1.9	2.8
		34	9.4	150	60	87	8.29	11		67	2	2.9
		41	11.3	180	54	78	8.82	11		68	2.7	3.9
	Φ205	22	6.2	99	56.5	82	6.27	7.5	YE3 160M$_1$-2 11kW	55	1.9	2.8
		32	8.9	141	53	77	7.22	11		64	2	2.9
		38	10.7	169	50	73	7.92	11		66	2.7	3.9
	Φ194	21	5.8	92	50	73	5.50	7.5	YE3 132S$_2$-2 7.5kW	52	1.9	2.8
		30	8.3	132	47	68	6.29	7.5		61	2	2.9
		36	10	159	43.5	63	6.77	7.5		63	2.7	3.9
	Φ182	20	5.4	86	44.5	65	4.85	5.5	YE3 132S$_2$-2 7.5kW	49	1.9	2.8
		28	7.8	123	42	61	5.62	7.5		57	2	2.9
		34	9.3	148	38	55	5.70	7.5		61	2.7	3.9
ISO 65×40-250	Φ278	25	7	111	105	152	15.5	22	YE3 200L$_1$-2 30kW	46.5	1.8	2.6
		36	10	159	100	145	17.8	30		55	2.2	3.2
		43	12	190	98	142	19.2	30		60	2.7	3.9
	Φ264	24	6.6	105	95	138	13.4	18.5	YE3 180M-2 22kW	46	1.7	2.5
		34	9.4	150	92	133	15.5	22		55	2.1	3
		41	11.3	180	88.5	128	17	22		58	2.6	3.8
	Φ250	22	6.2	99	85	123	11.7	15	YE3 160L-2 18.5kW	44.5	1.6	2.3
		32	8.9	141	82	119	13.5	18.5		53	2	2.9
		38	10.7	169	79	115	14.8	18.5		56	2.5	3.6
	Φ236	21	5.8	92	76	110	10.1	11	YE3 160M$_2$-2 15kW	43	1.5	2.2
		30	8.3	132	73	106	11.5	15		52	1.8	2.6
		36	10	159	70	102	12.4	15		55.5	2.4	3.5
	Φ222	20	5.4	86	66	96	8.29	11	YE3 160M$_1$-2 11kW	42.5	1.3	1.9
		28	7.8	123	63	91	9.42	11		51	1.6	2.3
		34	9.3	148	60.5	88	10.1	11		55	2.2	3.2
ISO 65×40-315	Φ342	25	7	111	155	225	30.4	37	YE3 225M-2 45kW	35	2.1	3
		36	10	159	152	220	32.8	45		45.5	2.4	3.5
		43	12	190	147.5	214	35.8	45		48.5	2.5	3.6
	Φ325	24	6.6	105	140	203	25.9	30	YE3 200L$_2$-2 37kW	35	1.9	2.8
		34	9.4	150	136	197	28	37		45	2.2	3.2
		41	11.3	180	132	191	30.6	37		48	2.3	3.3
	Φ308	22	6.2	99	124	180	22.2	30	YE3 200L$_2$-2 37kW	34	1.7	2.5
		32	8.9	141	120	174	23.2	37		45	2	2.9
		38	10.7	169	117	170	25.8	37		47.5	2.1	3
	Φ291	21	5.8	92	110	160	19.1	22	YE3 200L$_1$-2 30kW	33	1.6	2.3
		30	8.3	132	106	154	19.7	30		44	1.9	2.8
		36	10	159	103	149	21.5	30		47	2	2.9
	Φ274	20	5.4	86	97	141	15.7	22	YE3 180M-2 22kW	33	1.7	2.5
		28	7.8	123	94	136	16.7	22		43	2	2.9
		34	9.3	148	104	151	20.2	22		47	2.1	3

Technical Data Sheet (Rated Speed: 2900rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 80×65-160	Φ182	49	13.6	216	42.5	62	8.22	11	YE3 160M$_2$-2 15kW	69	1.9	2.8
		70	19.4	308	40	58	9.71	15		78.5	2	2.9
		84	23.3	370	36	52	10.3	15		80	2.1	3
	Φ173	47	13	206	39	57	7.12	7.5	YE3 160M$_1$-2 11kW	70	1.9	2.8
		67	18.6	295	36	52	8.31	11		79	2	2.9
		80	22.3	354	33	48	8.81	11		82	2.1	3
	Φ164	44	12.3	194	34.5	50	6.00	7.5	YE3 160M$_1$-2 11kW	69	1.9	2.8
		63	17.5	277	32	46	6.99	11		78.5	2	2.9
		76	21	333	29	42	7.37	11		81	2.1	3
	Φ155	42	11.7	185	30	44	5.05	5.5	YE3 132S$_2$-2 7.5kW	68	1.8	2.6
		60	16.7	264	28	41	5.87	7.5		78	2.5	3.6
		72	20	317	25	36	6.21	7.5		79	3.1	4.5
	Φ146	39	10.9	173	26.5	38	4.35	5.5	YE3 132S$_1$-2 5.5kW	65	3.2	4.6
		56	15.6	247	24	35	4.75	5.5		77	3.9	5.7
		67	18.7	296	21.5	31	5.04	5.5		78	4.5	6.5
ISO 80×50-200	Φ228	49	13.6	216	72	104	14.6	18.5	YE3 180M-2 22kW	66	1.9	2.8
		70	19.4	308	65	94	17.2	22		72	2	2.9
		84	23.3	370	58	84	19.5	22		68	2.1	3
	Φ217	47	13	206	64	93	12.4	15	YE3 160L-2 18.5kW	66	1.7	2.5
		67	18.6	295	58	84	15.1	18.5		70	1.8	2.6
		80	22.3	354	51	74	16.7	18.5		67	1.9	2.8
	Φ205	44	12.3	194	57	83	10.4	15	YE3 160L-2 18.5kW	66	1.5	2.2
		63	17.5	277	52	75	12.9	18.5		69	1.6	2.3
		76	21	333	50	73	14.9	18.5		69	1.7	2.5
	Φ194	42	11.7	185	51	74	8.71	11	YE3 160M$_2$-2 15kW	67	1.4	2
		60	16.7	264	45	65	10.8	15		68	1.5	2.2
		72	20	317	37	54	11.3	15		64	1.6	2.3
	Φ182	39	10.9	173	44	64	7.01	11	YE3 160M$_1$-2 11kW	67	1.4	2
		56	15.6	247	39	57	9.01	11		66	1.5	2.2
		67	18.7	296	34	49	9.57	11		65	1.6	2.3
ISO 80×50-250	Φ278	49	13.6	216	107	155	24.2	37	YE3 225M$_1$-2 45kW	59	1.8	2.6
		70	19.4	308	104	151	29.6	45		67	2.2	3.2
		84	23.3	370	100	145	32.7	45		70	2.6	3.8
	Φ264	47	13	206	96	139	20.8	30	YE3 200L$_2$-2 37kW	59	1.7	2.5
		67	18.6	295	93	135	25.3	37		67	2.1	3
		80	22.3	354	90	131	28.2	37		70	2.5	3.6
	Φ250	44	12.3	194	86	125	17.5	22	YE3 200L$_1$-2 30kW	59	1.6	2.3
		63	17.5	277	83	120	21.3	30		67	2	2.9
		76	21	333	80	116	23.5	30		70	2.4	3.5
	Φ236	42	11.7	185	78	113	15.9	22	YE3 200L$_1$-2 30kW	56	1.7	2.5
		60	16.7	264	75	109	18.7	30		65.5	1.8	2.6
		72	20	317	72	104	20.5	30		69	1.9	2.8
	Φ222	39	10.9	173	67	97	13	18.5	YE3 180M-2 22kW	55	1.8	2.6
		56	15.6	247	65	94	15	22		66	1.9	2.8
		67	18.7	296	62	90	16.7	22		68	2	2.9

Technical Data Sheet (Rated Speed: 2900rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 80×50-315	Φ342	49	13.6	216	156	226	39.3	55	YE3 280S-2 75kW	53	1.9	2.8
		70	19.4	308	150	218	47.7	75		60	2	2.9
		84	23.3	370	141	204	52	75		62	2.1	3
	Φ325	47	13	206	143	207	35.1	45	YE3 250M-2 55kW	52	1.9	2.8
		67	18.6	295	135	196	41.7	55		59	2	2.9
		80	22.3	354	127	184	44.9	55		62	2.1	3
	Φ308	44	12.3	194	128	186	29.6	37	YE3 225M-2 45kW	52	1.9	2.8
		63	17.5	277	121	175	35.2	45		59	2	2.9
		76	21	333	109	158	37.4	45		60	2.1	3
	Φ291	42	11.7	185	113	164	24.9	30	YE3 200L$_2$-2 37kW	52	1.9	2.8
		60	16.7	264	107	155	29.6	37		59	2	2.9
		72	20	317	98	142	32.3	37		59.5	2.1	3
	Φ274	39	10.9	173	100	145	20.5	22	YE3 200L$_1$-2 30kW	52	1.9	2.8
		56	15.6	247	94	136	24.3	30		59	2	2.9
		67	18.7	296	85	123	26.6	30		58.5	2.1	3
ISO 100×80-160	Φ182	98	27.2	431	40.5	59	14	18.5	YE3 180M-2 22kW	77	2.5	3.6
		140	38.9	616	35	51	16.7	22		80	2.8	4.1
		168	46.7	740	30	44	17.6	22		78	3.9	5.7
	Φ173	93	25.9	410	36.5	53	12.2	15	YE3 160L-2 18.5kW	76	2.6	3.8
		133	36.9	586	31	45	14.2	18.5		79	2.9	4.2
		160	44.3	703	27	39	15.2	18.5		77	4	5.8
	Φ164	88	24.5	388	32.5	47	10.5	11	YE3 160M$_2$-2 15kW	74	2.7	3.9
		126	35	555	28	41	12.3	15		78	3	4.4
		151	42	666	24	35	13.2	15		75	4.1	5.9
	Φ155	84	23.3	370	28.5	41	9.06	11	YE3 160M$_2$-2 15kW	72	2.9	4.2
		120	33.3	528	24	35	10.5	11		75	3.1	4.5
		144	40	634	20.5	30	11.2	15		72	3.7	5.4
	Φ146	78	21.8	345	25	36	7.85	11	YE3 160M$_1$-2 11kW	68	3.2	4.6
		112	31.1	493	21	30	8.90	11		72	3.4	4.9
		134	37.3	592	18	26	9.41	11		70	4	5.8
ISO 100×65-200	Φ228	98	27.2	431	71	103	26.3	30	YE3 200L$_2$-2 37kW	72	2.4	3.5
		140	38.9	616	65	94	31.4	37		79	3	4.4
		168	46.7	740	59	86	33.3	37		81	4.2	6.1
	Φ217	93	25.9	410	63	91	22.2	30	YE3 200L$_1$-2 30kW	72	2.2	3.2
		133	36.9	586	58.5	85	27.2	30		78	2.8	4.1
		160	44.3	703	53.5	78	29.1	30		80	4	5.8
	Φ205	88	24.5	388	57	83	19.3	22	YE3 200L$_1$-2 30kW	71	2.1	3
		126	35	555	52	75	23.5	30		76	2.7	3.9
		151	42	666	48	70	25	30		79	3.9	5.7
	Φ194	84	23.3	370	50	73	16.3	18.5	YE3 180M-2 22kW	70	2.6	3.8
		120	33.3	528	45.5	66	19.6	22		76	2.8	4.1
		144	40	634	41	59	21.2	22		76	3	4.4
	Φ182	78	21.8	345	44	64	14.2	15	YE3 160L-2 18.5kW	66	2.6	3.8
		112	31.1	493	39	57	15.9	18.5		75	2.8	4.1
		134	37.3	592	35	51	17.3	18.5		74	3	4.4

Technical Data Sheet (Rated Speed: 2900rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 100×65-250	Φ278	98	27.2	431	104	151	41.4	55	YE3 280S-2 75kW	67	3	4.4
		140	38.9	616	98	142	48.8	75		76.5	3.2	4.6
		168	46.7	740	91.5	133	52.3	75		80	3.8	5.5
	Φ264	93	25.9	410	94	136	35.6	45	YE3 250M-2 55kW	67	2.8	4.1
		133	36.9	586	87	126	40.9	55		77	3	4.4
		160	44.3	703	81.5	118	44.8	55		79	3.6	5.2
	Φ250	88	24.5	388	84	122	30.1	37	YE3 225M-2 45kW	67	2.8	4.1
		126	35	555	77	112	34.8	45		76	3	4.4
		151	42	666	72	104	38	45		78	3.6	5.2
	Φ236	84	23.3	370	74.5	108	25.8	30	YE3 200L$_2$-2 37kW	66	2.5	3.6
		120	33.3	528	69	100	30.1	37		75	2.8	4.1
		144	40	634	63.5	92	33.2	37		75	3.4	4.9
	Φ222	78	21.8	345	66	96	22	30	YE3 200L$_1$-2 30kW	64	2.4	3.5
		112	31.1	493	61.5	89	25.7	30		73	2.7	3.9
		134	37.3	592	56	81	28.5	30		72	3.3	4.8
ISO 100×65-315	Φ342	98	27.2	431	156.5	227	70.8	90	YE3 315S-2 110kW	59	3	4.4
		140	38.9	616	150.5	218	85.6	110		67	3.2	4.6
		168	46.7	740	144	209	92.8	110		71	3.3	4.8
	Φ325	93	25.9	410	141	204	61.6	75	YE3 280M-2 90kW	58	2.8	4.1
		133	36.9	586	134.5	195	73.3	90		66.5	3	4.4
		160	44.3	703	127.5	185	80.3	90		69	3.1	4.5
	Φ308	88	24.5	388	127.5	185	53.7	55	YE3 280S-2 75kW	57	2.8	4.1
		126	35	555	119.5	173	62.1	75		66	3	4.4
		151	42	666	113	164	69.4	75		67	3.1	4.5
	Φ291	84	23.3	370	112.5	163	46	55	YE3 280S-2 75kW	56	2.4	3.5
		120	33.3	528	106	154	54.1	75		64	2.8	4.1
		144	40	634	99	144	58.8	75		66	3.2	4.6
	Φ274	78	21.8	345	99	144	39.1	45	YE3 250M-2 55kW	54	2.3	3.3
		112	31.1	493	93.5	136	46	55		62	2.7	3.9
		134	37.3	592	87	126	49.8	55		64	3.1	4.5
ISO 125×100-200	Φ228	196	54.4	863	64	93	43.8	55	YE3 280S-2 75kW	78	3.4	4.9
		280	77.8	1233	58	84	51.4	75		86	3.6	5.2
		336	93.3	1479	52	75	56	75		85	4.5	6.5
	Φ217	186	51.7	820	57	83	37.5	45	YE3 250M-2 55kW	77	3.4	4.9
		266	73.9	1171	52	75	45.1	55		83.5	3.6	5.2
		319	88.7	1405	44.5	65	46.3	55		83.5	4.5	6.5
	Φ205	176	49	777	50	73	32	37	YE3 225M-2 45kW	75	3.6	5.2
		252	70	1110	45	65	37.7	45		82	3.8	5.5
		302	84	1331	39	57	38.7	45		83	4.7	6.8
	Φ194	167	46.3	734	43.5	63	27	30	YE3 200L$_2$-2 37kW	73	3.9	5.7
		238	66.1	1048	38	55	30.4	37		81	4	5.8
		286	79.3	1257	33	48	31.5	37		81.5	4.5	6.5
	Φ182	157	43.6	690	38	55	22.9	30	YE3 200L$_1$-2 30kW	71	4.1	5.9
		224	62.2	986	33	48	25.5	30		79	4.2	6.1
		269	74.7	1183	27	39	25	30		79	4.7	6.8

Technical Data Sheet (Rated Speed: 2900rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 125×100-250	Φ278	196	54.4	863	104	151	72.6	90	YE3 315S-2 110kW	76.5	2.9	4.2
		280	77.8	1233	95	138	87.8	110		82.5	3	4.4
		336	93.3	1479	82.5	120	93.2	110		81	3.8	5.5
	Φ264	186	51.7	820	94	136	62.7	75	YE3 280M-2 90kW	76	2.9	4.2
		266	73.9	1171	85.5	124	76.5	90		81	3	4.4
		319	88.7	1405	73.5	107	79.4	90		80.5	3.8	5.5
	Φ250	176	49	777	84	122	53.8	55	YE3 280S-2 75kW	75	3.4	4.9
		252	70	1110	76	110	65.2	75		80	3.5	5.1
		302	84	1331	64.5	94	66.4	75		80	4.3	6.2
	Φ236	167	46.3	734	74	107	45.4	55	YE3 280S-2 75kW	74	3.9	5.7
		238	66.1	1048	66	96	54.1	75		79	4	5.8
		286	79.3	1257	56	81	55.8	75		78	4.2	6.1
	Φ222	157	43.6	690	64	93	38	45	YE3 250M-2 55kW	72	4.2	6.1
		224	62.2	986	57	83	44.6	55		78	4.3	6.2
		269	74.7	1183	46.5	67	47.3	55		72	4.5	6.5
ISO 125×100-315	Φ342	196	54.4	863	160	232	113.9	132	YE3 315L₁-2 160kW	75	3.5	5.1
		280	77.8	1233	152	220	145.8	160		79.5	4	5.8
		336	93.3	1479	139	202	153.2	160		83	4.7	6.8
	Φ325	186	51.7	820	146	212	98.7	132	YE3 315L₁-2 160kW	75	3.3	4.8
		266	73.9	1171	136	197	123.9	160		79.5	3.8	5.5
		319	88.7	1405	123	178	132	160		81	4.5	6.5
	Φ308	176	49	777	129	187	82.6	110	YE3 315M-2 132kW	75	3.1	4.5
		252	70	1110	120	174	104.2	132		79	3.6	5.2
		302	84	1331	108	157	112.6	132		79	4.3	6.2
	Φ291	167	46.3	734	115	167	70.5	90	YE3 315S-2 110kW	74	2.9	4.2
		238	66.1	1048	106	154	88.1	110		78	3.4	4.9
		286	79.3	1257	94	136	93.7	110		78	4.1	5.9
	Φ274	157	43.6	690	100	145	58.5	75	YE3 280M-2 90kW	73	2.9	4.2
		224	62.2	986	92	133	72	90		78	3	4.4
		269	74.7	1183	79	115	76.1	90		76	3.1	4.5
ISO 150×150-250	Φ259	273	75.8	1202	85	123	83.2	110	YE3 315M-2 132kW	76	4	5.8
		390	108.3	1717	74	107	95.8	132		82	5	7.3
		468	130	2061	64	93	103.3	132		79	6.5	9.4
	Φ240	249	69	1094	72	104	65.8	75	YE3 280M-2 90kW	74	4	5.8
		355	98.6	1563	62	90	74	90		81	5	7.3
		426	118.3	1876	53	77	80.9	90		76	6	8.7
	Φ230	239	66.5	1054	60	87	54.3	75	YE3 280S-2 75kW	72	3.8	5.5
		342	95	1506	50	73	61.3	75		76	5	7.3
		410	114	1807	40	58	60.4	75		74	6	8.7
	Φ205	228	63.2	1002	55	80	48	55	YE3 280S-2 75kW	71	3.8	5.5
		325	90.3	1431	45	65	52.4	75		76	4	5.8
		390	108.3	1717	37	54	54.6	75		72	5.5	8
ISO 150×150-315	Φ324	294	81.7	1294	142	206	155.7	185	YE3 355M₂-2 250kW	73	4.5	6.5
		420	116.7	1849	130	189	188.2	220		79	6	8.7
		504	140	2219	118	171	207.6	250		78	6.5	9.4
	Φ315	287	79.7	1264	133	193	142.4	185	YE3 355M₁-2 220kW	73	4.1	5.9
		410	113.9	1805	122	177	170.3	185		80	6	8.7
		492	136.7	2166	110	160	193.9	220		76	9	13.1

Technical Data Sheet (Rated Speed: 2900rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 150×150-315	Φ305	280	77.8	1233	125	181	132.4	160	YE3 315L-2 185kW	72	4.5	6.5
		400	111.1	1761	114	165	154.3	185		80.5	5.8	8.4
		480	133.3	2113	102	148	170.9	185		78	8	11.6
	Φ280	245	68.1	1079	106	154	104	132	YE3 315L₁-2 160kW	68	4.5	6.5
		350	97.2	1541	96	139	117.3	132		78	5	7.3
		420	116.7	1849	86	125	127.7	160		77	6	8.7
	Φ270	210	58.3	925	90	131	78	90	YE3 315S-2 110kW	66	4.5	6.5
		300	83.3	1321	80	116	87.1	110		75	4.5	6.5
		360	100	1585	72	104	92.9	110		76	5	7.3
ISO 150×150-400	Φ400	364	101.1	1603	215	312	294	350	YKK 4505-2 450kW	72	5.5	8
		520	144.4	2289	195	283	363.3	400		78.5	7	10.2
		624	173.3	2747	170	247	390.4	450		74	10	14.5
	Φ390	339	94.1	1492	205	297	266.4	315	YE3 3552-2 250kW	71	5.5	6.5
		484	134.4	2131	184	267	309	375		78.5	5.5	8
		581	161.3	2557	162	235	341.7	375		75	9	13.1
	Φ380	318	88.3	1400	191	277	232.9	280	YE3 3551-2 355kW	71	5	7.3
		454	126.2	2000	178	258	285.9	315		77	6	8.7
		545	151.4	2400	158	229	312.7	355		75	7	10.2
	Φ370	280	77.8	1233	185	268	210.5	250	YE3 355L₂-2 315kW	67	5	7.3
		400	111.1	1761	172	249	249.8	280		75	5.5	8
		480	133.3	2113	160	232	268.1	315		76	7	10.2
ISO 200×200-315	Φ324	504	140	2219	130	189	220.3	250	YE3 3551-2 355kW	81	6	8.7
		720	200	3170	122	177	290	315		82.5	10	14.5
		864	240	3804	104	151	313.7	355		78	18	26.1
	Φ315	455	126.4	2003	121	175	197.3	250	YE3 355L₂-2 315kW	76	5	7.3
		650	180.6	2862	115	167	245.3	280		83	8	11.6
		780	216.7	3434	102	148	274.3	315		79	13.5	19.6
	Φ305	378	105	1664	116	168	170.6	200	YE3 355M₂-2 250kW	70	5	7.3
		540	150	2378	110	160	207.4	250		78	5.5	8
		648	180	2853	102	148	219.5	250		82	6	8.7
	Φ285	315	87.5	1387	108	157	136.2	160	YE3 315L₂-2 200kW	68	5	7.3
		450	125	1981	103	149	166.1	200		76	4.5	6.5
		540	150	2378	95	138	172.5	200		81	6	8.7
	Φ275	280	77.8	1233	97	141	117.4	132	YE3 315L₁-2 160kW	63	5	7.3
		400	111.1	1761	90	131	130.7	160		75	4.5	6.5
		480	133.3	2113	85	123	142.5	160		78	5	7.3
ISO 200×200-400	Φ400	504	140	2219	222	322	429.2	500	YKK 5002-2 630kW	71	6	8.7
		720	200	3170	208	302	509.8	560		80	9	13.1
		864	240	3804	190	276	548.5	560		81.5	13	18.9
	Φ390	455	126.4	2003	210	305	377.1	450	YKK 5001-2 560kW	69	6	8.7
		650	180.6	2862	190	276	431.2	500		78	8	11.6
		780	216.7	3434	180	261	466.3	560		82	10.5	15.2
	Φ380	378	105	1664	198	287	313.6	350	YKK 4505-2 450kW	65	6	8.7
		540	150	2378	190	276	377.6	450		74	6.5	9.4
		648	180	2853	180	261	407.2	450		78	8	11.6
	Φ372	315	87.5	1387	190	276	276.3	315	YKK 4504-2 400kW	59	6.5	9.4
		450	125	1981	180	261	298.1	350		74	6.5	9.4
		540	150	2378	172	249	324.3	400		78	8	11.6

Technical Data Sheet (Rated Speed: 1450rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 50×32-160	Φ182	12	3.2	51	10	15	0.55	0.75	YE3-802-4	57	2.2	3.2
	Φ173	11	3.1	48	9	13	0.49	0.75	YE3-802-4	55	2.2	3.2
	Φ164	11	2.9	46	8	12	0.42	0.55	YE3-801-4	54	2.3	3.3
	Φ155	10	2.8	44	7	10	0.36	0.55	YE3-801-4	53	2.3	3.3
	Φ146	10	2.6	42	6.2	9	0.31	0.55	YE3-801-4	52	2.4	3.5
ISO 50×32-200	Φ228	12	3.2	51	16	23	0.96	1.5	YE3-90L-4	52	3.5	5.1
	Φ217	11	3.1	48	14	20	0.82	1.1	YE3-90S-4	51	3.5	5.1
	Φ205	11	2.9	46	12.5	18	0.70	1.1	YE3-90S-4	51	3.5	5.1
	Φ194	10	2.8	44	10.7	16	0.57	0.75	YE3-802-4	51	3.8	5.5
	Φ182	10	2.6	42	9	13	0.47	0.55	YE3-801-4	49.5	4	5.8
ISO 65×50-160	Φ182	18	5	79	10	15	0.82	1.1	YE3-90S-4	60	3.5	5.1
	Φ173	17	4.7	75	8.8	13	0.69	1.1	YE3-90S-4	59	3.5	5.1
	Φ164	16	4.4	70	8	12	0.60	0.75	YE3-802-4	58.5	3.5	5.1
	Φ155	15	4.2	66	7.2	10	0.52	0.75	YE3-802-4	56.5	3.8	5.5
	Φ146	14	3.9	62	6.4	9	0.45	0.55	YE3-801-4	54	4	5.8
ISO 65×40-200	Φ228	18	5	79	16	23	1.27	2.2	YE3-100L$_1$-4	62	1.5	2.2
	Φ217	17	4.7	75	14.6	21	1.17	1.5	YE3-90L-4	58	1.5	2.2
	Φ205	16	4.4	70	13	19	0.99	1.5	YE3-90L-4	57	1.5	2.2
	Φ194	15	4.2	66	11.6	17	0.85	1.1	YE3-90S-4	56	1.4	2
	Φ182	14	3.9	62	10	15	0.69	1.1	YE3-90S-4	55	1.2	1.7
ISO 65×40-250	Φ278	18	5	79	25	36	2.36	4	YE3-112M-4	52	1.2	1.7
	Φ264	17	4.7	75	23	33	2.09	3	YE3-100L$_2$-4	51	1.4	2
	Φ250	16	4.4	70	20.5	30	1.82	2.2	YE3-100L$_1$-4	49	2	2.9
	Φ236	15	4.2	66	18	26	1.53	2.2	YE3-100L$_1$-4	48	3	4.4
	Φ222	14	3.9	62	15.8	23	1.37	1.5	YE3-90L-4	44	3.8	5.5
ISO 65×40-315	Φ342	18	5	79	37	54	4.03	5.5	YE3-132S-4	45	1.2	1.7
	Φ325	17	4.7	75	33.5	49	3.52	5.5	YE3-132S-4	44	1.2	1.7
	Φ308	16	4.4	70	30.5	44	3.09	4	YE3-112M-4	43	1.2	1.7
	Φ291	15	4.2	66	27	39	2.63	4	YE3-112M-4	42	1	1.5
	Φ274	14	3.9	62	23	33	2.14	3	YE3-100L$_2$-4	41	1	1.5
ISO 80×65-160	Φ182	36	10	159	10	15	1.27	1.5	YE3-90L-4	77	1.5	2.2
	Φ173	34	9.4	150	8.8	13	1.07	1.5	YE3-90L-4	76	1.5	2.2
	Φ164	32	8.9	141	7.6	11	0.88	1.1	YE3-90S-4	75	1.5	2.2
	Φ155	30	8.3	132	6.7	10	0.75	1.1	YE3-90S-4	73	1.5	2.2
	Φ146	28	7.8	123	5.8	8	0.61	0.75	YE3-802-4	72	1.5	2.2
ISO 80×50-200	Φ228	36	10	159	16.5	24	2.25	3	YE3-100L$_2$-4	72	1	1.5
	Φ217	34	9.4	150	15	22	1.96	3	YE3-100L$_2$-4	71	1	1.5
	Φ205	32	8.9	141	13	19	1.67	2.2	YE3-100L$_1$-4	68	1.2	1.7
	Φ194	30	8.3	132	11.8	17	1.44	2.2	YE3-100L$_1$-4	67	1.4	2
	Φ182	28	7.8	123	10	15	1.16	1.5	YE3-90L-4	66	1.6	2.3

Technical Data Sheet (Rated Speed: 1450rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 80×50-250	Φ278	36	10	159	25	36	3.71	5.5	YE3-132S-4	66	1.5	2.2
	Φ264	34	9.4	150	22.5	33	3.31	5.5	YE3-132S-4	63	1.5	2.2
	Φ250	32	8.9	141	20.5	30	2.88	4	YE3-112M-4	62	1.6	2.3
	Φ236	30	8.3	132	18.5	27	2.48	4	YE3-112M-4	61	1.7	2.5
	Φ222	28	7.8	123	16	23	2.07	3	YE3-100L$_2$-4	59	1.8	2.6
ISO 80×50-315	Φ278	36	10	159	37	54	6.36	7.5	YE3-132M-4	57	1	1.5
	Φ264	34	9.4	150	33	48	5.41	7.5	YE3-132M-4	56.5	1	1.5
	Φ250	32	8.9	141	29.5	43	4.59	5.5	YE3-132S-4	56	1	1.5
	Φ236	30	8.3	132	26	38	3.86	5.5	YE3-132S-4	55	1	1.5
	Φ222	28	7.8	123	23	33	3.25	4	YE3-112M-4	54	1	1.5
ISO 100×80-160	Φ182	70	19.4	308	8.5	12	2.13	3	YE3-100L$_2$-4	76	2.8	4.1
	Φ173	67	18.6	295	7.8	11	1.92	2.2	YE3-100L$_1$-4	74	2.6	3.8
	Φ164	63	17.5	277	6.8	10	1.60	2.2	YE3-100L$_1$-4	73	2.6	3.8
	Φ155	60	16.7	264	6	9	1.36	1.5	YE3-90L-4	72	2.5	3.6
	Φ146	56	15.6	247	5.2	8	1.12	1.5	YE3-90L-4	71	2.5	3.6
ISO 100×65-200	Φ228	70	19.4	308	16	23	4.01	5.5	YE3-132S-4	76	1.2	1.7
	Φ217	67	18.6	295	14.4	21	3.60	4	YE3-112M-4	73	1.2	1.7
	Φ205	63	17.5	277	13	19	3.10	4	YE3-112M-4	72	1.3	1.9
	Φ194	60	16.7	264	11.8	17	2.72	3	YE3-100L$_2$-4	71	1.3	1.9
	Φ182	56	15.6	247	9.5	14	2.13	3	YE3-100L$_2$-4	68	1.5	2.2
ISO 100×65-250	Φ278	70	19.4	308	24	35	6.10	7.5	YE3-132M-4	75	2.3	3.3
	Φ264	67	18.6	295	21.5	31	5.30	7.5	YE3-132M-4	74	2.1	3
	Φ250	63	17.5	277	19	28	4.47	5.5	YE3-132S-4	73	2.2	3.2
	Φ236	60	16.7	264	16.5	24	3.74	5.5	YE3-132S-4	72	2.3	3.3
	Φ222	56	15.6	247	14.5	21	3.35	4	YE3-112M-4	66	2.5	3.6
ISO 100×65-315	Φ342	70	19.4	308	36	52	10.6	15	YE3-160L-4	65	1.3	1.9
	Φ325	67	18.6	295	32	46	8.98	15	YE3-160L-4	65	1.3	1.9
	Φ308	63	17.5	277	28.5	41	7.76	11	YE3-160M-4	63	1.3	1.9
	Φ291	60	16.7	264	25.5	37	6.72	11	YE3-160M-4	62	1.4	2
	Φ274	56	15.6	247	22.5	33	5.82	7.5	YE3-132M-4	59	1.5	2.2
ISO 125×80-400	Φ438	90	25	396	60	87	23.7	37	YE3-225S-4	62	1.5	2.2
	Φ416	86	23.9	379	53.5	78	20.7	30	YE3-200L-4	60.5	1.4	2
	Φ394	81	22.5	357	47	68	17.4	22	YE3-180L-4	59.5	1.3	1.9
	Φ372	77	21.4	339	41.5	60	15	18.5	YE3-180M-4	58	1.2	1.7
	Φ350	72	20	317	36.5	53	12.3	15	YE3-160L-4	58	1.2	1.7
ISO 125×100-200	Φ228	140	38.9	616	14.5	21	6.58	7.5	YE3-132M-4	84	2	2.9
	Φ217	133	36.9	586	13	19	5.67	7.5	YE3-132M-4	83	2	2.9
	Φ205	126	35	555	11.5	17	4.81	5.5	YE3-132S-4	82	2.1	3
	Φ194	119	33.1	524	10	15	4.05	5.5	YE3-132S-4	80	2.2	3.2
	Φ182	112	31.1	493	8.3	12	3.16	4	YE3-112M-4	80	2.3	3.3

Technical Data Sheet (Rated Speed: 1450rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 125×100-250	Φ278	140	38.9	616	24	35	11.3	15	YE3-160L-4	81	1.5	2.2
	Φ264	133	36.9	586	21	30	9.39	15	YE3-160L-4	81	1.6	2.3
	Φ250	126	35	555	18.5	27	7.84	11	YE3-160M-4	81	1.7	2.5
	Φ236	119	33.1	524	16.5	24	6.86	11	YE3-160M-4	78	1.7	2.5
	Φ222	112	31.1	493	14	20	5.77	7.5	YE3-132M-4	74	1.9	2.8
ISO 125×100-315	Φ342	140	38.9	616	38	55	18.6	30	YE3-200L-4	78	1.5	2.2
	Φ325	133	36.9	586	34	49	15.8	22	YE3-180L-4	78	1.6	2.3
	Φ308	126	35	555	30	44	13.2	18.5	YE3-180M-4	78	1.7	2.5
	Φ291	119	33.1	524	26	38	10.9	15	YE3-160L-4	77	1.7	2.5
	Φ274	112	31.1	493	22	32	8.83	11	YE3-160M-4	76	1.9	2.8
ISO 125×100-400	Φ438	140	38.9	616	62	90	33.8	45	YE3-225M-4	70	1.8	2.6
	Φ416	133	36.9	586	56	81	29.8	37	YE3-225S-4	68	1.8	2.6
	Φ394	126	35	555	48	70	24.4	30	YE3-200L-4	67.5	1.8	2.6
	Φ372	119	33.1	524	43	62	21	30	YE3-200L-4	66.5	1.6	2.3
	Φ360	112	31.1	493	37	54	17.1	22	YE3-180L-4	66	1.6	2.3
ISO 125×100-500	Φ547	140	38.9	616	93	135	62.2	90	YE3-280M-4	57	1.6	2.3
	Φ520	133	36.9	586	85	123	54.5	75	YE3-280S-4	56.5	1.6	2.3
	Φ492	126	35	555	77	112	47.2	75	YE3-280S-4	56	1.6	2.3
	Φ465	119	33.1	524	70	102	41.2	55	YE3-250M-4	55	1.6	2.3
	Φ437	112	31.1	493	64	93	36.8	45	YE3-225M-4	53	1.6	2.3
ISO 150×125-250	Φ278	252	70	1110	21	30	17.2	22	YE3-180L-4	84	2.2	3.2
	Φ264	240	66.7	1057	19	28	15	18.5	YE3-180M-4	83	2.5	3.6
	Φ250	227	63.1	999	16.5	24	12.4	15	YE3-160L-4	82	3	4.4
	Φ236	214	59.4	942	14	20	10.2	15	YE3-160L-4	80	3.6	5.2
	Φ222	202	56.1	889	11.8	17	8.43	11	YE3-160M-4	77	4.3	6.2
ISO 150×125-315	Φ342	252	70	1110	36	52	28.7	37	YE3-225S-4	86	2.2	3.2
	Φ325	240	66.7	1057	32	46	24.6	37	YE3-225S-4	85	2.2	3.2
	Φ308	227	63.1	999	28.5	41	21.2	30	YE3-200L-4	83	2.2	3.2
	Φ291	214	59.4	942	25	36	18	22	YE3-180L-4	81	2.2	3.2
	Φ274	202	56.1	889	21.5	31	14.6	18.5	YE3-180M-4	81	2.2	3.2
ISO 150×125-400	Φ438	252	70	1110	63	91	54	75	YE3-280S-4	80	2.2	3.2
	Φ416	240	66.7	1057	57	83	46.9	75	YE3-280S-4	79.5	1.9	2.8
	Φ394	227	63.1	999	51	74	39.9	55	YE3-250M-4	79	1.6	2.3
	Φ372	214	59.4	942	46	67	34.2	45	YE3-225M-4	78.5	1.3	1.9
	Φ360	202	56.1	889	41	59	28.7	37	YE3-225S-4	78.5	1.2	1.7
ISO 150×125-500	Φ547	252	70	1110	92	133	95.7	132	YE3-315M-4	66	2.5	3.6
	Φ520	240	66.7	1057	83	120	82.2	110	YE3-315S-4	66	2.5	3.6
	Φ492	227	63.1	999	74	107	69.3	90	YE3-280M-4	66	2.5	3.6
	Φ465	214	59.4	942	66	96	58.3	75	YE3-280S-4	66	2.5	3.6
	Φ437	202	56.1	889	58	84	48.3	75	YE3-280S-4	66	2.5	3.6

Technical Data Sheet (Rated Speed: 1450rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 150×150-560	Φ578	335	93.1	1475	104	151	143.8	160	YE3-315L_1-4	66	2.5	3.6
	Φ560	315	87.5	1387	97	141	128	132	YE3-315M-4	65	2.2	3.2
	Φ510	260	72.2	1145	80	116	88.5	90	YE3-280M-4	64	2	2.9
	Φ450	212	58.9	933	60	87	55.9	75	YE3-280S-4	62	2.5	3.6
ISO 150×150-630	Φ648	360	100	1585	115	167	179	200	YE3-315L_2-4	63	3	4.4
	Φ630	336	93.3	1479	105.5	153	153.2	185	YE3-315L_2-4	63	2.5	3.6
	Φ570	274	76.1	1206	82	119	109.3	132	YE3-315M-4	56	2.2	3.2
	Φ500	220	61.1	969	60	87	71.9	75	YE3-280S-4	50	2	2.9
ISO 200×150-315	Φ342	400	111.1	1761	36	52	47.2	75	YE3-280S-4	83	2.5	3.6
	Φ325	380	105.6	1673	31.5	46	40.2	55	YE3-250M-4	81	3	4.4
	Φ308	360	100	1585	27	39	32.7	45	YE3-225M-4	81	3.5	5.1
	Φ291	340	94.4	1497	23.5	34	27.9	37	YE3-225S-4	78	4	5.8
	Φ274	320	88.9	1409	20	29	22.8	30	YE3-200L-4	76.5	4.5	6.5
ISO 200×150-400	Φ438	400	111.1	1761	58	84	77	110	YE3-315S-4	82	3	4.4
	Φ416	380	105.6	1673	51	74	66.8	90	YE3-280M-4	79	2.8	4.1
	Φ394	360	100	1585	44	64	56.8	75	YE3-280S-4	76	2.8	4.1
	Φ372	340	94.4	1497	36.5	53	44.5	55	YE3-250M-4	76	2.8	4.1
	Φ350	320	88.9	1409	32	46	37.2	45	YE3-225M-4	75	2.8	4.1
ISO 200×150-500	Φ547	400	111.1	1761	90	131	129	160	YE3-315L_1-4	76	3	4.4
	Φ520	380	105.6	1673	80	116	108.9	132	YE3-315M-4	76	2.9	4.2
	Φ492	360	100	1585	70	102	92.7	110	YE3-315S-4	74	2.8	4.1
	Φ465	340	94.4	1497	62	90	79.7	90	YE3-280M-4	72	2.7	3.9
	Φ437	320	88.9	1409	54	78	65.4	75	YE3-280S-4	72	2.6	3.8
ISO 200×200-560	Φ578	540	150	2378	105	152	205.9	250	YE3-355M_2-4	75	3	4.4
	Φ550	510	141.7	2245	98	142	186.5	220	YE3-355M_1-4	73	2	2.9
	Φ500	440	122.2	1937	81	117	142.7	160	YE3-315L_1-4	68	2	2.9
	Φ450	350	97.2	1541	62	90	90.9	110	YE3-315S-4	65	1.7	2.5
ISO 200×200-630	Φ648	580	161.1	2554	132	191	281.8	315	YE3-355L_2-4	74	3	4.4
	Φ630	550	152.8	2422	125	181	253	280	YE3-355L_1-4	74	2	2.9
	Φ570	468	130	2061	100	145	177	200	YE3-315L_2-4	72	1.5	2.2
	Φ500	372	103.3	1638	75	109	108.5	132	YE3-315M-4	70	1.2	1.7
ISO250×200-200	Φ270	550	152.8	2422	16	23	29.2	37	YE3-225S-4	82	4.2	6.1
ISO250×200-250	Φ278	630	175	2774	20	29	41.3	55	YE3-250M-4	83	3	4.4
ISO 250×200-315	Φ342	630	175	2774	31	45	63.3	75	YE3-280S-4	84	3.8	5.5
	Φ325	600	166.7	2642	26.5	38	52.2	55	YE3-250M-4	83	3.9	5.7
	Φ308	567	157.5	2496	22.5	33	42.4	45	YE3-225M-4	82	4	5.8
	Φ291	536	148.9	2360	19	28	34.7	37	YE3-225S-4	80	4.1	5.9
	Φ274	505	140.3	2223	16	23	28.6	30	YE3-200L-4	77	4.2	6.1

ISO

SINGLE STAGE CENTRIFUGAL PUMP
(END-SUCTION PUMP)
ISO 2858 | ISO 9908 | UL 448

ZJ·BETTER®

Technical Data Sheet (Rated Speed: 1450rpm)

Pump Model	Impeller Diameter	Flow Q			Head H		Shaft Power P	Motor Power N	Motor Model	Eff. η	(NPSH)r	
	mm	m^3/h	L/s	GPM	m	Psi	kW	kW		%	m	Psi
ISO 250×200-400	Φ438	630	175	2774	58	84	117.1	160	YE3-315L$_1$-4	85	3	4.4
	Φ416	600	166.7	2642	51	74	100.4	132	YE3-315M-4	83	2.9	4.2
	Φ394	567	157.5	2496	44	64	82.9	110	YE3-315S-4	82	3	4.4
	Φ372	536	148.9	2360	39	57	70.3	90	YE3-280M-4	81	3.1	4.5
	Φ350	505	140.3	2223	35	51	60.9	75	YE3-280S-4	79	3.5	5.1
ISO 250×200-500	Φ547	650	180.6	2862	92	133	197.4	250	YE3-355M$_2$-4	82.5	4	5.8
	Φ520	618	171.7	2721	83.1	120	170.6	220	YE3-355M$_1$-4	82	4	5.8
	Φ492	585	162.5	2576	74.4	108	148.2	200	YE3-315L$_2$-4	80	4	5.8
	Φ465	553	153.6	2435	66.5	96	128.4	160	YE3-315L$_1$-4	78	4	5.8
	Φ437	519	144.2	2285	58.7	85	106.4	132	YE3-315M-4	78	4	5.8
ISO 250×250-560	Φ578	860	238.9	3786	106	154	302.8	355	YE3-355-4	82	4	5.8
	Φ560	830	230.6	3654	98	142	270.1	315	YE3-355L$_2$-4	82	3.5	5.1
	Φ510	760	211.1	3346	78	113	201.8	220	YE3-355M$_1$-4	80	3	4.4
	Φ450	665	184.7	2928	57	83	139.5	160	YE3-315L$_1$-4	74	2.7	3.9
ISO 250×250-630	Φ648	855	237.5	3764	128	186	370.2	400	YKK4006-4/10KV	80.5	6.5	9.4
	Φ630	816	226.7	3593	119	173	328.5	355	YE3-355-4	80.5	5	7.3
	Φ570	720	200	3170	96	139	242.9	280	YE3-355L$_1$-4	77.5	4	5.8
	Φ500	625	173.6	2752	71	103	163.3	185	YE3-315L$_2$-4	74	3	4.4
ISO300×250-250	Φ342	1000	277.8	4403	19	28	60.9	75	YE3-280S-4	85	3.5	5.1
ISO 300×250-315	Φ342	1000	277.8	4403	29	42	91.8	110	YE3-315S-4	86	4	5.8
	Φ325	950	263.9	4183	26.2	38	79.7	110	YE3-315S-4	85	4	5.8
	Φ308	900	250	3963	23.5	34	68.6	90	YE3-280M-4	84	4	5.8
	Φ291	850	236.1	3742	21	30	58.6	75	YE3-280S-4	83	4	5.8
	Φ274	800	222.2	3522	19	28	50.5	75	YE3-280S-4	82	4	5.8
ISO 300×250-400	Φ438	1000	277.8	4403	62	90	198.6	250	YE3-355M$_2$-4	85	5	7.3
	Φ416	950	263.9	4183	55.9	81	170.1	220	YE3-355M$_1$-4	85	5	7.3
	Φ394	900	250	3963	50.2	73	148.2	200	YE3-315L$_2$-4	83	5	7.3
	Φ375	850	236.1	3742	44.7	65	127.7	160	YE3-315L$_1$-4	81	5	7.3
	Φ350	800	222.2	3522	39.6	57	106.5	132	YE3-315M-4	81	5	7.3
ISO 300×250-500	Φ547	1100	305.6	4843	82	119	289	355	YE3-355-4	85	5	7.3
	Φ520	1046	290.6	4605	74	107	254	315	YE3-355L$_2$-4	83	5	7.3
	Φ492	989	274.7	4354	66	96	216.8	280	YE3-355L$_1$-4	82	5	7.3
	Φ465	935	259.7	4117	59	86	185.5	220	YE3-355M$_1$-4	81	5	7.3
	Φ437	879	244.2	3870	52	75	155.6	200	YE3-315L$_2$-4	80	5	7.3
ISO 300×300-560	Φ578	1340	372.2	5900	104	151	446.5	500	YKK4502-4/10KV	85	3.8	5.5
	Φ560	1280	355.6	5636	97	141	397.8	450	YKK4501-4/10KV	85	3.5	5.1
	Φ510	1140	316.7	5019	77	112	291.5	355	YE3-355-4	82	3.2	4.6
	Φ450	950	263.9	4183	56	81	181.1	220	YE3-355M$_1$-4	80	3	4.4
ISO 300×300-630	Φ648	1450	402.8	6384	132	191	606.1	710	YKK4505-4/10KV	86	4.5	6.5
	Φ630	1375	381.9	6054	125	181	544.3	630	YKK4504-4/10KV	86	4.8	7
	Φ570	1170	325	5151	100	145	388.6	450	YKK4501-4/10KV	82	5	7.3
	Φ500	950	263.9	4183	75	109	248.8	280	YE3-355L$_1$-4	78	5.5	8

ZJ·BETTER®

THE BEST CIRCULATION
WATER SUPPLY EQUIPMENT
Energy-saving, Reliable, professional

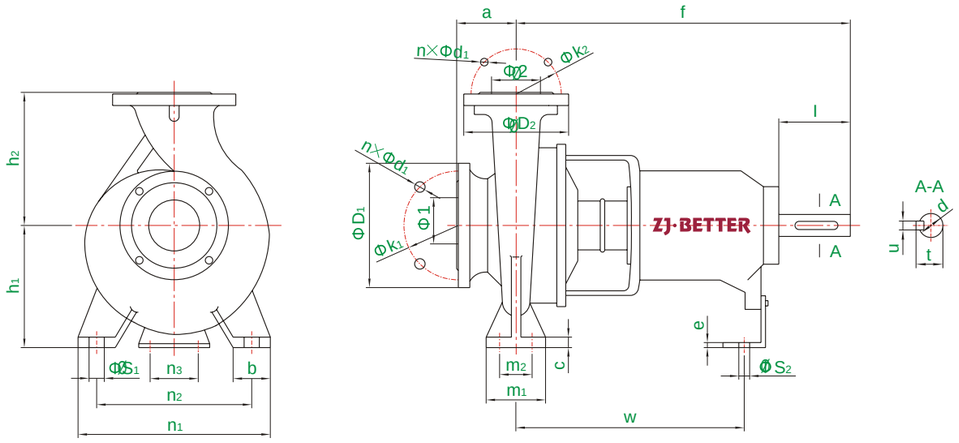
Inlet and Outlet, Taper Pipe Caliber Technical Data Sheet (Rated Speed: 2900rpm)

Pump Model	Model	Pump		Taper Pipe		Pump Model	Model	Pump		Taper Pipe	
		Suction	Discharge	Suction	Discharge			Suction	Discharge	Suction	Discharge
	kW	mm		mm			kW	mm		mm	
ISO 50×32-160	5.5	50	32	65	50	ISO 100×65-200	37	100	65	150	125
ISO 50×32-200	11					ISO 100×65-250	75				
ISO 65×50-160	7.5	65	50	80	65	ISO 100×65-315	110				
ISO 65×40-200	15	65	40	80	65	ISO 125×100-200	75	125	100	250	200
ISO 65×40-250	30					ISO 125×100-250	110				
ISO 65×40-315	45					ISO 125×100-315	160				
ISO 80×65-160	15	80	65	125	100	ISO 150×150-250	132	150	150	300	250
ISO 80×50-200	22	80	50	125	100	ISO 150×150-315	250				
ISO 80×50-250	45					ISO 150×150-400	450				
ISO 80×50-315	75					ISO 200×200-315	355	200	200	350	300
ISO 100×80-160	22	100	80	150	125	ISO 200×200-400	630				

Inlet and Outlet, Taper Pipe Caliber Technical Data Sheet (Rated Speed: 1450rpm)

Pump Model	Model	Pump		Taper Pipe		Pump Model	Model	Pump		Taper Pipe	
		Suction	Discharge	Suction	Discharge			Suction	Discharge	Suction	Discharge
	kW	mm		mm			kW	mm		mm	
ISO 50×32-160	0.75	50	32	65	50	ISO 150×125-400	75	150	125	250	200
ISO 50×32-200	1.5					ISO 150×125-500	132				
ISO 65×50-160	1.1	65	50	80	65	ISO 150×150-560	160	150	150	250	200
ISO 65×40-200	2.2	65	40	65	65	ISO 150×150-630	200				
ISO 65×40-250	4					ISO 200×150-315	75	200	150	250	200
ISO 65×40-315	5.5					ISO 200×150-400	110				
ISO 80×65-160	1.5	80	65	100	80	ISO 200×150-500	160				
ISO 80×50-200	3	80	50	100	80	ISO 200×200-560	250	200	200	300	250
ISO 80×50-250	5.5					ISO 200×200-630	315				
ISO 80×50-315	7.5					ISO 250×200-200	37	250	200	350	300
ISO 100×80-160	3	100	80	125	100	ISO 250×200-250	55				
ISO 100×65-200	5.5	100	65	125	100	ISO 250×200-315	75				
ISO 100×65-250	7.5					ISO 250×200-400	160				
ISO 100×65-315	15					ISO 250×200-500	250				
ISO 125×80-400	37	125	80	150	100	ISO 250×250-560	355	250	250	400	350
ISO 125×100-200	7.5	125	100	200	150	ISO 250×250-630	400				
ISO 125×100-250	15					ISO 300×250-250	75	300	250	450	400
ISO 125×100-315	30					ISO 300×250-315	110				
ISO 125×100-400	45	125	100	200	150	ISO 300×250-400	250				
ISO 125×100-500	90					ISO 300×250-500	355				
ISO 150×125-250	22	150	125	250	200	ISO 300×300-560	500	300	300	450	400
ISO 150×125-315	37					ISO 300×300-630	710				

Outline and Installation Drawing



Flange Connection Dimensions											
Φ1, Φ2	32	40	50	65	80	100	125	150	200	250	300
$\Phi k_1, \Phi k_2$	100	110	125	145	160	180	210	240	295	355	410
D_1, D_2	140	150	165	185	200	220	250	285	340	405	460
$n \times \Phi d_1$	4×18	4×18	4×18	4×18	8×18	8×18	8×18	8×22	12×22	12×26	12×26

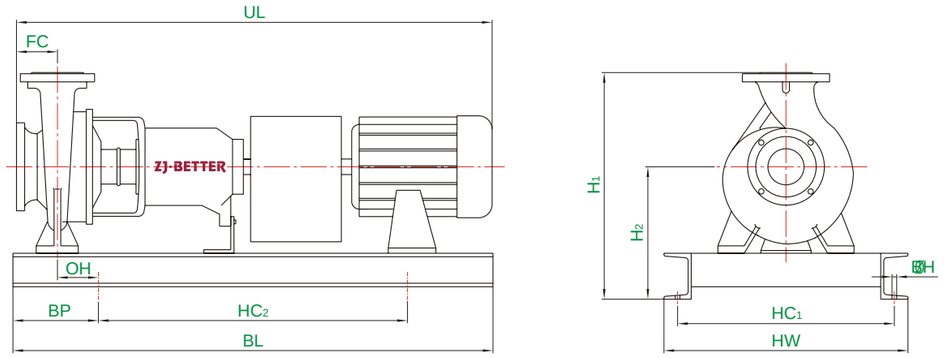
Outline and Installation Dimensions

Pump Model	Shaft DN	Pump Dimensions						Pump Foot Dimensions											Shaft End	
		Φ1	Φ2	a	f	h_1	h_2	b	c	e	m_1	m_2	n_1	n_2	n_3	ΦS_1	ΦS_2	w	d	l
ISO50×32-160	25	50	32	80	385	132	160	50	12	6	100	70	240	190	110	14	14	285	24	50
ISO50×32-200	25	50	32	80	385	160	180	50	12	6	100	70	240	190	110	14	14	285	24	50
ISO65×50-160	25	65	50	80	385	132	160	50	12	6	100	70	240	190	110	14	14	285	24	50
ISO65×40-200	25	65	40	100	385	160	180	50	13	6	100	70	265	212	110	14	14	285	24	50
ISO65×40-250	35	65	40	100	500	180	225	65	14	6	125	95	320	250	110	14	14	370	32	80
ISO65×40-315	35	65	40	125	500	200	250	65	16	6	125	95	345	280	110	14	14	370	32	80
ISO80×65-160	25	80	65	100	385	160	180	50	13	6	100	70	265	212	110	14	14	285	24	50
ISO80×50-200	25	80	50	100	385	160	200	50	13	6	100	70	265	212	110	14	14	285	24	50
ISO80×50-250	35	80	50	125	500	180	225	65	15	6	125	95	320	250	110	14	14	370	32	80
ISO80×50-315	35	80	50	125	500	225	280	65	18	6	125	95	345	280	110	14	14	370	32	80
ISO100×80-160	35	100	80	100	500	160	200	65	14	6	125	95	280	212	110	14	14	370	32	80
ISO100×65-200	35	100	65	100	500	180	225	65	14	6	125	95	320	250	110	14	14	370	32	80

Outline and Installation Dimensions

Pump Model	Shaft DN	Pump Dimensions						Pump Foot Dimensions											Shaft End	
		Φ1	Φ2	a	f	h_1	h_2	b	c	e	m_1	m_2	n_1	n_2	n_3	ΦS_1	ΦS_2	w	d	l
ISO100×65-250	35	100	65	125	500	200	250	80	16	6	160	120	360	280	110	18	14	370	32	80
ISO100×65-315	45	100	65	125	530	225	280	80	18	6	160	120	400	315	110	18	14	370	42	110
ISO125×80-400	45	125	80	125	530	280	355	80	20	6	160	120	435	355	110	18	14	370	42	110
ISO125×100-200	35	125	100	125	500	200	280	80	17	6	160	120	350	280	110	18	14	370	32	80
ISO125×100-250	45	125	100	140	530	225	280	80	18	6	160	120	400	315	110	18	14	370	42	110
ISO125×100-315	45	125	100	140	530	250	315	80	19	6	160	120	400	315	110	18	14	370	42	110
ISO125×100-400	45	125	100	140	530	280	355	100	20	6	200	150	500	400	110	22	14	370	42	110
ISO125×100-500	55	125	100	160	670	355	450	82	25	10	200	150	550	450	140	22	18	500	48	110
ISO150×125-250	45	150	125	140	530	250	355	80	19	6	160	120	400	315	110	18	14	370	42	110
ISO150×125-315	45	150	125	140	530	280	355	100	20	6	200	150	500	400	110	22	14	370	42	110
ISO150×125-400	45	150	125	140	530	315	400	100	21	6	200	150	500	400	110	22	14	370	42	110
ISO150×125-500	55	150	125	160	670	355	450	100	25	10	200	150	550	450	140	22	18	500	48	110
ISO150×150-250	42	150	150	200	625	250	315	80	15	10	160	120	400	315	140	18	17.5	530	42	80
ISO150×150-315	42	150	150	205	625	270	370	100	15	10	200	150	500	400	140	23	17.5	530	42	80
ISO150×150-400	48	150	150	230	675	315	410	100	18	10	200	150	550	450	140	28	17.5	575	48	82
ISO150×150-560	48	150	150	250	675	425	500	130	30	12	260	190	690	560	140	27	17.5	575	48	82
ISO150×150-630	48	150	150	260	675	475	540	130	30	12	260	190	800	670	180	28	17.5	575	48	82
ISO200×150-315	55	200	150	160	670	315	400	100	25	10	200	150	550	450	140	22	18	500	48	110
ISO200×150-400	55	200	150	160	670	315	450	100	25	10	200	150	550	450	140	22	18	500	48	110
ISO200×150-500	55	200	150	160	670	400	500	100	25	10	200	150	550	450	140	22	18	500	48	110
ISO200×200-315	48	200	200	245	675	300	420	100	20	10	200	150	500	400	140	30	17.5	575	48	82
ISO200×200-400	50	200	200	260	779.5	335	470	100	20	14	200	150	500	450	140	30	22	680	60	102.5
ISO200×200-560	50	200	200	270	780	425	570	130	30	12	260	190	690	560	140	27	17.5	680	60	102.5
ISO200×200-630	50	200	200	280	780	475	620	150	30	12	270	190	820	670	180	33	17.5	680	60	102.5
ISO250×200-200	55	250	200	180	670	315	450	100	22	10	200	150	550	450	140	22	14	500	48	110
ISO250×200-250	70	250	200	180	885	315	450	100	25	12	200	150	550	450	180	22	18	670	65	140
ISO250×200-315	55	250	200	180	670	315	450	100	25	10	200	150	550	450	140	22	18	500	48	110
ISO250×200-400	55	250	200	180	670	355	500	100	25	10	200	150	550	450	140	22	18	500	48	110
ISO250×200-500	70	250	200	225	885	400	580	150	28	12	315	250	760	630	180	26	18	670	65	140
ISO250×250-560	50	250	250	290	780	450	620	150	30	12	270	190	820	670	180	33	17.5	680	60	102.5
ISO250×250-630	75	250	250	320	875	500	660	150	35	12	270	190	820	670	180	33	17.5	775	75	102.5
ISO300×250-250	70	300	250	225	885	355	560	125	24	12	250	190	630	500	180	22	18	670	65	140
ISO300×250-315	55	300	250	225	670	355	500	125	24	12	250	190	690	560	140	22	14	500	48	110
ISO300×250-400	70	300	250	225	885	450	560	150	28	12	250	190	690	560	180	26	18	670	65	140
ISO300×250-500	70	300	250	225	885	450	630	150	28	12	315	250	760	630	180	26	18	670	65	140
ISO300×300-560	75	300	300	330	875	500	670	150	30	12	270	190	820	670	180	33	17.5	775	75	102.5
ISO300×300-630	75	300	300	350	875	500	720	150	35	12	270	190	900	750	180	33	17.5	775	75	102.5

Installation Drawing



Installation Dimensions (Rated Speed: 2900rpm)

Pump Model	Motor		Pump Installation Dimensions											Total Weight
	Model	Power	H_1	H_2	HC_1	HC_2	HW	BL	BP	BH	OH	UL	FC	(kg)
ISO50×32-160	YE3-100L-2	3	367	207	310	450	350	835	150	14	87	861	80	103
	YE3-112M-2	4	367	207	310	450	350	835	150	14	87	861	80	113
	YE3-132S_1-2	5.5	367	207	310	500	350	835	170	14	95	956	80	133
ISO50×32-200	YE3-132S_1-2	5.5	415	235	310	500	350	855	170	14	95	956	80	143
	YE3-132S_2-2	7.5	415	235	310	500	350	855	170	14	95	956	80	148
	YE3-160M_1-2	11	432	252	350	580	390	1020	190	14	120	1082	80	207
ISO65×50-160	YE3-112M-2	4	367	207	310	450	350	835	150	14	87	881	80	115
	YE3-132S_1-2	5.5	367	207	310	500	350	855	170	14	95	956	80	135
	YE3-132S_2-2	7.5	367	207	310	500	350	855	170	14	95	956	80	140
ISO65×40-200	YE3-132S_2-2	7.5	415	235	310	500	350	855	170	14	95	976	100	150
	YE3-160M_1-2	11	432	252	350	580	390	1020	190	14	120	1102	100	210
	YE3-160M_2-2	15	432	252	350	580	390	1020	190	14	120	1102	100	220
ISO65×40-250	YE3-160M_1-2	11	520	295	400	750	440	1210	220	18	133	1217	100	255
	YE3-160M_2-2	15	520	295	400	750	440	1210	220	18	133	1217	100	265
	YE3-160L-2	18.5	520	295	400	750	440	1210	220	18	133	1265	100	280
	YE3-180M-2	22	520	295	400	750	440	1210	220	18	132	1290	100	311
	YE3-200L_1-2	30	560	335	400	780	450	1230	230	22	145	1395	100	380
ISO65×40-315	YE3-180M-2	22	565	315	400	750	440	1210	220	18	132	1315	125	321
	YE3-200L_1-2	30	585	335	400	780	450	1230	230	22	145	1420	125	390
	YE3-200L_2-2	37	585	335	400	780	450	1230	230	22	145	1422	125	410
	YE3-225M-2	45	610	360	450	800	490	1270	230	22	145	1462	125	482
ISO80×65-160	YE3-132S_1-2	5.5	415	235	310	500	350	855	170	14	95	976	100	142
	YE3-132S_2-2	7.5	415	235	310	500	350	855	170	14	95	976	100	148
	YE3-160M_1-2	11	432	252	350	580	390	1020	190	14	120	1102	100	206
	YE3-160M_2-2	15	432	252	350	580	390	1020	190	14	120	1102	100	216

Installation Dimensions (Rated Speed: 2900rpm)

Pump Model	Motor		Pump Installation Dimensions											Total Weight
	Model	Power	H_1	H_2	HC_1	HC_2	HW	BL	BP	BH	OH	UL	FC	(kg)
ISO80×50-200	YE3-160M_1-2	11	452	252	350	580	390	1020	190	14	120	1102	100	214
	YE3-160M_2-2	15	452	252	350	580	390	1020	190	14	120	1102	100	224
	YE3-160L-2	18.5	452	252	350	580	390	1020	190	14	120	1150	100	240
	YE3-180M-2	22	475	275	350	580	390	1065	190	14	130	1175	100	272
ISO80×50-250	YE3-180M-2	22	520	295	400	750	440	1210	220	18	132	1315	125	313
	YE3-200L_1-2	30	560	335	400	780	450	1230	230	22	145	1420	125	382
	YE3-200L_2-2	37	560	335	400	780	450	1230	230	22	145	1422	125	402
	YE3-225M_1-2	45	585	360	450	800	490	1270	230	22	117	1462	125	474
ISO80×50-315	YE3-200L_1-2	30	645	365	500	800	540	1260	230	22	125	1420	125	415
	YE3-200L_2-2	37	645	365	500	800	540	1260	230	22	125	1422	125	435
	YE3-225M-2	45	640	360	450	800	490	1270	230	22	145	1462	125	489
	YE3-250M-2	55	690	410	500	870	550	1390	260	26	160	1577	125	595
	YE3-280S-2	75	720	440	550	910	600	1510	300	26	190	1647	125	757
ISO100×80-160	YE3-160M_1-2	11	475	275	400	750	440	1210	220	18	133	1217	100	253
	YE3-160M_2-2	15	475	275	400	750	440	1210	220	18	133	1217	100	263
	YE3-160L-2	18.5	475	275	400	750	440	1210	220	18	133	1265	100	278
	YE3-180M-2	22	495	295	400	750	440	1180	220	18	142	1290	100	302
ISO100×65-200	YE3-160L-2	18.5	520	295	400	750	440	1210	220	18	133	1265	100	280
	YE3-180M-2	22	520	295	400	750	440	1210	220	18	132	1290	100	311
	YE3-200L_1-2	30	560	335	400	780	450	1230	230	22	145	1395	100	380
	YE3-200L_2-2	37	560	335	400	780	450	1230	230	22	145	1397	100	400
ISO100×65-250	YE3-200L_1-2	30	585	335	400	780	450	1230	230	22	145	1420	125	390
	YE3-200L_2-2	37	585	335	400	780	450	1230	230	22	145	1422	125	410
	YE3-225M-2	45	610	360	450	800	490	1270	230	22	145	1462	125	517
	YE3-250M-2	55	660	410	500	870	550	1390	260	26	160	1577	125	588
	YE3-280S-2	75	690	440	550	910	600	1510	300	26	190	1647	125	750
ISO100×65-315	YE3-250M-2	55	690	410	500	870	550	1390	260	26	160	1607	125	627
	YE3-280S-2	75	720	440	550	910	600	1510	300	26	190	1607	125	789
	YE3-280M-2	90	720	440	550	910	600	1510	300	26	190	1736	125	847
	YE3-315S-2	110	760	480	620	950	670	1630	300	26	207	1876	125	1144
ISO125×100-200	YE3-200L_1-2	30	615	335	400	780	450	1230	230	22	145	1420	125	395
	YE3-200L_2-2	37	615	335	400	780	450	1230	230	22	145	1422	125	415
	YE3-225M-2	45	640	360	450	800	490	1270	230	22	145	1462	125	487
	YE3-250M-2	55	690	410	500	870	550	1390	260	26	160	1577	125	593
	YE3-280S-2	75	720	440	550	910	600	1510	300	26	190	1647	125	755
ISO125×100-250	YE3-250M-2	55	690	410	500	870	550	1390	260	26	160	1622	140	634
	YE3-280S-2	75	720	440	550	910	600	1510	300	26	190	1692	140	787
	YE3-280M-2	90	720	440	550	910	600	1510	300	26	190	1751	140	855
	YE3-315S-2	110	760	480	620	950	670	1630	300	26	207	1891	140	1152
ISO125×100-315	YE3-280M-2	90	755	440	550	910	600	1510	300	26	190	1751	140	864
	YE3-315S-2	110	795	480	620	950	670	1630	300	26	207	1891	140	1161
	YE3-315M-2	132	795	480	620	950	670	1630	300	26	217	1941	140	1281
	YE3-315L_1-2	160	795	480	620	950	670	1630	300	26	217	1944	140	1354

Installation Dimensions (Rated Speed: 1450rpm)

Pump Model	Motor		Pump Installation Dimensions											Total Weight
	Model	Power	H_1	H_2	HC_1	HC_2	HW	BL	BP	BH	OH	UL	FC	(kg)
ISO50×32-160	YE3-801-4	0.55	367	207	270	430	310	695	120	14	55	766	80	81
	YE3-802-4	0.75	367	207	270	430	310	695	120	14	55	766	80	81
ISO50×32-200	YE3-801-4	0.55	415	235	270	430	310	695	120	14	55	766	80	91
	YE3-802-4	0.75	415	235	270	430	310	695	120	14	55	766	80	91
	YE3-90S-4	1.1	415	235	270	450	310	790	150	14	69	791	80	102
	YE3-90L-4	1.5	415	235	270	450	310	790	150	14	69	791	80	102
ISO65×50-160	YE3-801-4	0.55	367	207	270	430	310	695	120	14	55	766	80	82
	YE3-802-4	0.75	367	207	270	430	310	695	120	14	55	766	80	83
	YE3-90S-4	1.1	367	207	270	450	310	790	150	14	69	791	80	89
ISO65×40-200	YE3-90S-4	1.1	415	235	270	450	310	790	150	14	69	811	100	98
	YE3-90L-4	1.5	415	235	270	450	310	790	150	14	69	811	100	103
	YE3-100L_1-4	2.2	415	235	310	450	350	835	150	14	87	881	100	111
ISO65×40-250	YE3-90L-4	1.5	480	255	310	500	350	895	160	14	90	952	100	130
	YE3-100L_1-4	2.2	500	275	350	520	390	975	185	14	102	997	100	147
	YE3-100L_2-4	3	500	275	350	520	390	975	185	14	102	997	100	152
	YE3-112M-4	4	500	275	350	550	390	975	185	14	100	1017	100	162
	YE3-100L_2-4	3	545	295	350	520	390	975	185	14	102	1022	125	162
ISO65×40-315	YE3-112M-4	4	545	295	350	550	390	975	185	14	100	1042	125	172
	YE3-132S-4	5.5	565	315	400	630	440	1065	210	18	122	1117	125	203
ISO80×65-160	YE3-802-4	0.75	415	235	270	430	310	695	120	14	55	786	100	90
	YE3-90S-4	1.1	415	235	270	430	310	790	150	14	69	811	100	96
	YE3-90L-4	1.5	415	235	270	430	310	790	150	14	69	836	100	101
ISO80×50-200	YE3-90L-4	1.5	435	235	270	450	310	790	150	14	69	836	100	107
	YE3-100L_1-4	2.2	435	235	310	450	350	835	150	14	87	881	100	114
	YE3-100L_2-4	3	435	235	310	450	350	835	150	14	87	881	100	119
ISO80×50-250	YE3-100L_2-4	3	500	275	350	520	390	975	185	14	102	1022	125	154
	YE3-112M-4	4	500	275	350	550	390	975	185	14	100	1042	125	164
	YE3-132S-4	5.5	520	295	400	630	440	1065	210	18	122	1117	125	195
ISO80×50-315	YE3-112M-4	4	600	320	350	550	390	975	185	14	100	1042	125	179
	YE3-132S-4	5.5	620	340	400	630	440	1065	210	18	122	1117	125	210
	YE3-132M-4	7.5	620	340	400	630	440	1065	210	18	122	1157	125	223
ISO100×80-160	YE3-90L-4	1.5	435	235	310	500	350	895	160	14	90	952	100	128
	YE3-100L_1-4	2.2	455	255	350	520	390	975	185	14	102	997	100	142
	YE3-100L_2-4	3	455	255	350	520	390	975	185	14	102	997	100	147
ISO100×65-200	YE3-100L_2-4	3	500	275	350	520	390	975	185	14	102	997	100	153
	YE3-112M-4	4	500	275	350	550	390	975	185	14	100	1017	100	162
	YE3-132S-4	5.5	520	295	400	630	440	1065	210	18	122	1092	100	192
ISO100×65-250	YE3-112M-4	4	545	295	350	550	390	975	185	14	100	1042	125	173
	YE3-132S-4	5.5	565	315	400	630	440	1065	210	18	122	1117	125	203
	YE3-132M-4	7.5	565	315	400	630	440	1065	210	18	122	1157	125	216

Installation Dimensions (Rated Speed: 1450rpm)

Pump Model	Motor		Pump Installation Dimensions											Total Weight
	Model	Power	H_1	H_2	HC_1	HC_2	HW	BL	BP	BH	OH	UL	FC	(kg)
ISO100×65-315	YE3-132M-4	7.5	620	340	400	630	440	1065	210	18	122	1192	125	260
	YE3-160M-4	11	620	340	400	750	440	1210	220	18	133	1277	125	314
	YE3-160L-4	15	620	340	400	750	440	1210	220	18	133	1322	125	327
ISO125×80-400	YE3-160L-4	15	755	400	430	700	475	1230	250	18	160	1322	125	380
	YE3-180M-4	18.5	755	400	430	700	475	1230	250	18	160	1347	125	421
	YE3-180L-4	22	755	400	430	700	475	1230	250	18	160	1387	125	439
	YE3-200L-4	30	775	420	500	800	540	1260	230	22	125	1452	125	516
	YE3-225S-4	37	795	440	550	820	600	1330	230	26	140	1497	125	581
ISO125×100-200	YE3-112M-4	4	575	295	350	550	390	975	185	14	100	1042	125	177
	YE3-132S-4	5.5	595	315	400	630	440	1065	210	18	122	1117	125	208
	YE3-132M-4	7.5	595	315	400	630	440	1065	210	18	122	1157	125	221
ISO125×100-250	YE3-132M-4	7.5	620	340	400	630	440	1065	210	18	122	1207	140	268
	YE3-160M-4	11	620	340	400	750	440	1210	220	18	133	1292	140	322
	YE3-160L-4	15	620	340	400	750	440	1210	220	18	133	1337	140	335
ISO125×100-315	YE3-160M-4	11	680	365	400	750	440	1210	220	18	133	1292	140	331
	YE3-160L-4	15	680	365	400	750	440	1210	220	18	133	1337	140	344
	YE3-180M-4	18.5	680	365	400	750	440	1210	220	18	132	1362	140	383
	YE3-180L-4	22	685	370	430	700	475	1230	250	18	160	1402	140	408
	YE3-200L-4	30	705	390	500	800	540	1260	230	22	125	1467	140	486
ISO125×100-400	YE3-180L-4	22	775	420	540	780	580	1260	230	22	117	1402	140	468
	YE3-200L-4	30	775	420	500	800	540	1260	230	22	125	1467	140	526
	YE3-225S-4	37	795	440	550	820	600	1330	250	26	140	1512	140	291
	YE3-225M-4	45	795	440	550	820	600	1330	250	26	140	1546	140	629
ISO125×100-500	YE3-225M-4	45	965	515	550	880	600	1480	300	26	190	1706	160	767
	YE3-250M-4	55	965	515	550	950	600	1540	300	26	190	1791	160	865
	YE3-280S-4	75	965	515	550	1050	600	1670	300	26	190	1864	160	1024
	YE3-280M-4	90	965	515	550	1050	600	1670	300	26	190	1914	160	1039
ISO150×125-250	YE3-160M-4	11	720	365	400	750	440	1210	220	18	133	1292	140	336
	YE3-160L-4	15	720	365	400	750	440	1210	220	18	133	1337	140	349
	YE3-180M-4	18.5	720	365	400	750	440	1210	220	18	132	1362	140	388
	YE3-180L-4	22	725	370	430	700	475	1230	250	18	160	1402	140	414
ISO150×125-315	YE3-180M-4	18.5	775	420	540	780	580	1260	230	22	117	1362	140	425
	YE3-180L-4	22	775	420	540	780	580	1260	230	22	117	1402	140	443
	YE3-200L-4	30	775	420	500	800	540	1260	230	22	125	1467	140	501
	YE3-225S-4	37	795	440	550	820	600	1330	250	26	140	1512	140	566
ISO150×125-400	YE3-225S-4	37	875	475	550	820	600	1323	250	26	140	1512	140	602
	YE3-225M-4	45	875	475	550	820	600	1330	250	26	140	1546	140	640
	YE3-250M-4	55	875	475	500	870	550	1390	260	26	150	1631	140	728
	YE3-280S-4	75	875	475	500	910	600	1510	300	26	190	1704	140	879

Installation Dimensions (Rated Speed: 1450rpm)

Pump Model	Motor		Pump Installation Dimensions											Total Weight
	Model	Power	H_1	H_2	HC_1	HC_2	HW	BL	BP	BH	OH	UL	FC	(kg)
ISO150×125-500	YE3-280S-4	75	965	515	550	1050	600	1670	300	26	190	1864	160	1047
	YE3-280M-4	90	965	515	550	1050	600	1670	300	26	190	1914	160	1062
	YE3-315S-4	110	970	520	620	1140	680	1830	320	26	172	2054	160	1411
	YE3-315M-4	132	970	520	620	1140	680	1830	320	26	172	2104	160	1561
ISO150×150-560	YE3-280S-4	75	1090	590	680	1100	730	1770	335	26	130	1959	250	
	YE3-280M-4	90	1090	590	680	1100	730	1770	335	26	130	2009	250	
	YE3-315M-4	132	1090	590	680	1140	730	1850	355	26	192	2270	250	
	YE3-315L_1-4	160	1090	590	770	1200	830	1930	365	26	122	2199	250	
ISO150×150-630	YE3-280S-4	75	1180	640	770	1100	830	1770	335	26	130	1969	260	
	YE3-315M-4	132	1180	640	770	1140	830	1850	355	26	192	2280	260	
	YE3-315L-4	185	1240	700	770	1140	830	1850	355	26	192	2330	260	
	YE3-315L_2-4	200	1240	700	770	1140	830	1850	355	26	192	2330	260	
ISO200×150-315	YE3-200L-4	30	875	475	550	910	590	1410	250	26	140	1636	160	518
	YE3-225S-4	37	875	475	550	880	600	1480	300	26	190	1681	160	651
	YE3-225M-4	45	875	475	550	880	600	1480	300	26	190	1706	160	686
	YE3-250M-4	55	875	475	550	950	600	1540	300	26	190	1791	160	774
	YE3-280S-4	75	875	475	550	1050	600	1670	300	26	190	1864	160	933
ISO200×150-400	YE3-225M-4	45	925	475	550	880	600	1480	300	26	190	1706	160	764
	YE3-250M-4	55	925	475	550	950	600	1540	300	26	190	1791	160	852
	YE3-280S-4	75	925	475	550	1050	600	1670	300	26	190	1864	160	1011
	YE3-280M-4	90	925	475	550	1050	600	1670	300	26	190	1914	160	1026
	YE3-315S-4	110	930	480	620	1140	600	1830	320	26	172	2054	160	1375
ISO200×150-500	YE3-280S-4	75	1060	560	550	1050	600	1670	300	26	190	1864	160	1093
	YE3-280M-4	90	1060	560	550	1050	600	1670	300	26	190	1914	160	1108
	YE3-315S-4	110	1065	565	620	1140	680	1830	320	26	172	2054	160	1457
	YE3-315M-4	132	1065	565	620	1140	680	1830	320	26	172	2104	160	1607
	YE3-315L_1-4	160	1065	565	620	1140	680	1830	320	26	172	2104	160	1687
ISO200×200-560	YE3-315S-4	110	1220	650	770	1200	830	1900	350	26	170	2274	270	
	YE3-315L_1-4	160	1220	650	770	1200	830	2000	400	26	192	2324	270	
	YE3-355M_1-4	220	1220	650	770	1300	830	2200	450	26	267	2626	270	
	YE3-355M_2-4	250	1220	650	770	1300	830	2200	450	26	267	2626	270	
ISO200×200-630	YE3-315M-4	132	1320	700	770	1200	830	1950	375	26	217	2405	280	
	YE3-315L_2-4	200	1320	700	770	1200	830	1950	375	26	217	2455	280	
	YE3-355L_1-4	280	1320	700	770	1300	830	2200	450	26	267	2636	280	
	YE3-355L_2-4	315	1320	700	770	1300	830	2200	450	26	267	2636	280	
ISO250×200-200	YE3-225S-4	37	925	475	550	880	600	1460	300	26	190	1709	180	
ISO250×200-250	YE3-250M-4	55	945	495	570	1100	620	1770	335	26	220	2034	180	
ISO250×200-315	YE3-200L-4	30	925	475	550	910	590	1410	250	26	140	1656	180	653
	YE3-225S-4	37	925	475	550	880	600	1480	300	26	190	1701	180	706
	YE3-225M-4	45	925	475	550	880	600	1480	300	26	190	1726	180	741
	YE3-250M-4	55	925	475	550	950	600	1540	300	26	190	1811	180	829
	YE3-280S-4	75	925	475	550	1050	600	1670	300	26	190	1884	180	988

Installation Dimensions (Rated Speed: 1450rpm)

Pump Model	Motor		Pump Installation Dimensions											Total Weight
	Model	Power	H_1	H_2	HC_1	HC_2	HW	BL	BP	BH	OH	UL	FC	(kg)
ISO250×200-400	YE3-280S-4	75	1015	515	550	1050	600	1670	300	26	190	1884	180	1051
	YE3-280M-4	90	1015	515	550	1050	600	1670	300	26	190	1934	180	1066
	YE3-315S-4	110	1020	520	620	1140	680	1630	320	26	172	2074	180	1415
	YE3-315M-4	132	1020	520	620	1140	680	1630	320	26	172	2124	180	1565
	YE3-315L_1-4	160	1020	520	620	1140	680	1630	320	26	172	2124	180	1645
ISO250×200-500	YE3-315M-4	132	1205	625	770	1170	830	2070	450	33	277	2455	225	
	YE3-315L_1-4	160	1205	625	770	1170	830	2070	450	33	277	2455	225	
	YE3-315L_2-4	200	1205	625	770	1170	830	2070	450	33	277	2505	225	
	YE3-355M_1-4	220	1205	625	770	1340	830	2185	420	33	247	2686	225	
	YE3-355M_2-4	250	1205	625	770	1340	830	2185	420	33	247	2686	225	
ISO250×250-560	YE3-315L_1-4	160	1150	650	770	1200	830	2000	400	33	192	2344	290	
	YE3-355M_1-4	220	1150	650	770	1300	830	2200	450	33	267	2646	290	
	YE3-355L_2-4	315	1150	650	770	1300	830	2200	450	33	267	2646	290	
	YE3-355L_3-4	355	1150	650	770	1400	830	2462	531	33	281	2881	290	
ISO250×250-630	YE3-315L-4	185	1380	725	770	1170	830	2070	450	33	267	2590	320	
	YE3-355L_1-4	280	1385	725	770	1400	830	2300	450	33	262	2771	320	
	YE3-355L_3-4	355	1385	725	770	1400	830	2472	536	33	276	2891	320	
	YKK4504-4/10KV	400	1385	725	940	1600	1000	2800	600	33	360	3470	320	
ISO300×250-250	YE3-280S-4	75	1115	555	630	1135	680	1865	365	26	225	2155	225	
ISO300×250-315	YE3-280S-4	75	1035	535	680	1080	730	1700	310	26	170	1940	225	
	YE3-280M-4	90	1035	535	680	1080	730	1700	310	26	170	1990	225	
	YE3-315S-4	110	1035	535	680	1100	730	1720	310	26	170	2169	225	
ISO300×250-400	YE3-315M-4	132	1235	675	770	1200	830	2125	460	33	232	2455	225	
	YE3-315L_1-4	160	1235	675	770	1200	830	2125	460	33	232	2455	225	
	YE3-315L_2-4	200	1235	675	770	1200	830	2125	460	33	232	2505	225	
	YE3-355M_1-4	220	1235	675	770	1350	830	2350	500	33	272	2686	225	
	YE3-355M_2-4	250	1235	675	770	1350	830	2350	500	33	272	2686	225	
ISO300×250-500	YE3-315L_2-4	200	1305	675	770	1200	830	2125	460	33	232	2505	225	
	YE3-355M_1-4	220	1305	675	770	1350	830	2350	500	33	272	2686	225	
	YE3-355L_1-4	280	1305	675	770	1350	830	2350	500	33	272	2686	225	
	YE3-355L_2-4	315	1305	675	770	1350	830	2350	500	33	272	2686	225	
	YE3-355L_3-4	355	1305	675	770	1500	830	2650	500	33	272	3066	225	
ISO300×300-560	YE3-355M_1-4	220	1395	725	770	1400	830	2300	450	33	262	2781	330	
	YE3-355L_3-4	355	1395	725	770	1600	830	2742	571	33	241	3161	330	
	YKK4505-4/10KV	450	1395	725	940	1600	1000	2800	600	33	360	3480	330	
	YKK4506-4/10KV	500	1395	725	940	1600	1000	2800	600	33	360	3480	330	
ISO300×300-630	YE3-355L_1-4	280	1445	725	870	1400	930	2300	450	33	262	2801	350	
	YKK4505-4/10KV	450	1445	725	940	1600	1000	2800	600	33	360	3500	350	
	YKK5002-4/10KV	630	1445	725	940	1700	1000	3050	675	33	435	3525	350	
	YKK5003-4/10KV	710	1445	725	940	1700	1000	3050	675	33	435	3525	350	

Installation Instructions

Respected Users of Better (China) Technology Co.,LTD.:

Thank you very much for choosing ZJ. BETTER products.

Better Technology has more than 20 years of experience in pump development, strict quality management system and perfect after-sales service to ensure that you can get high quality and reliable XA series centrifugal pumps.

Summarize:

This manual describes the structure, parameters and proper installation, use and maintenance methods of the product. Please read this manual carefully before use to ensure that you understand the contents of this manual and use the product according to the requirements of the manual to ensure the durability of the product.

This manual has been marked with various safety precautions and is not responsible for damage caused by the user's mistake or negligence in using the information in this manual.

As far as the company is aware, the information in this manual is correct. Because there are many unpredictable situations, this manual can only serve as a guide to use and should not be considered as the sole source of technical description. If you have any questions regarding the installation, construction or use, please contact us.

System components are selected by the purchaser. As for how they use it, our company is not responsible. However, our technical engineers, salesmen, and service personnel are available to assist you in making decisions.

This manual is a compilation of our company. However, the user's system is different, our company cannot guarantee the integrity of this manual, so there may be deficiencies in this manual. Buyers and users should always be responsible for verifying the accuracy of the information and taking security measures.

At any time, our company has the right to make changes to the structure and design of the product and related documentation, and is not responsible for any technical or editorial errors or omissions in the manual and for incidental or consequential damages resulting from the use of the manual.

The data in the manual is consistent with the recent printing. All data is subject to the latest revised version of the data. All technical data modifications are not notified to the customer and no new information will be replaced for the customer.

1. Safety

This operating manual covers the basics for the installation, use and maintenance of the ISO series centrifugal pumps. The installer and the professional must read this manual before installation and start-up, and put it near the machine for frequent use.

1.1 The Signs of Safety Instructions

This manual describes how to operate the product to ensure safe operation. Operators and maintenance personnel must be familiar with these procedures. The following are some common signs in the use of this product.

⚠ Indicate that it may endanger the user's personal safety. Be sure to strictly observe the relevant operating rules.

! Indicate that it may cause abnormal or damaged operation of the pump. Please follow the relevant instructions to avoid this situation.

★ Indicate useful instructions or suggestions for users. Additional attention will be given to bold fonts.

● The steering arrow mark on the pump body must be clearly visible.

1.2 Qualified Persons and Training

Pumps are in operation, maintenance, inspection and assembly. All the those involved in these staff must be qualified to do such work. The operators must be clearly responsible person in charge and supervisors. If the operators do not have the necessary capacity to deal with problems, they must be appropriately trained and guided. In addition, the operator is also responsible for ensuring that the persons fully understand the contents of the specification.

Installation Instructions

1.3 Non-compliance with Safety Rules

Non-compliance with safety rules would be harm to human security, the environment and machine. If you do not comply with safety rules, it may result in:

- Function machines or units of significant loss.
- Provided repairing and maintenance work are interrupted.
- Electrical, machine and chemical effects will cause danger to persons.
- The leakage of hazardous substances cause harm to the environment.

1.4 Operation, Maintenance, Inspection, Safety Rules

- If the machine parts are heated, there are dangerous hidden dangers, users need to take necessary safety measures.
- When the machine starts, the protective cover of the moving parts (such as coupling) cannot be removed from the machine.
- If dangerous goods are transported from shaft seals or other places, we must do a good job of discharging, in order to avoid damage and pollution to human body and environment.
- Users should ensure that all maintenance, inspection, and installation are performed by authorized professionals.
- The most basic principle: the machine can be maintained or checked after shutdown, and the shutdown operation must be strictly carried out in accordance with the manual.
- After the maintenance or inspection of the machine, put all the protective devices back in place immediately before starting the pump.
- When working in the working area of the machine, pay attention to avoid slip.

1.5 Improving and Manufacturing Spare Parts without Authorization

Improvements or modifications to the machine require the consent of the manufacturer. Original spare parts and accessories authorized by the manufacturer are guaranteed. The manufacturer is not responsible for any loss caused by the use of other accessories.

1.6 Illegal operation

Only when the machine is used according to the instructions, the work safety is guaranteed. If the user does not install and operate according to the instructions, the manufacturer is not responsible for any problems.

1.7 Transportation

In any case, the pump unit is placed horizontally, which ensure that units can be placed restfully, the pump units are transported in any way, such as road transport, rail transport, or shipping, etc.

When lifting a single pump or a whole unit, please refer to the following figure for the location of the lifting:

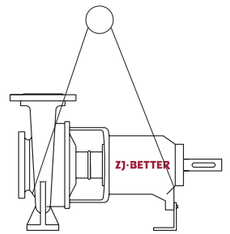


Figure 1

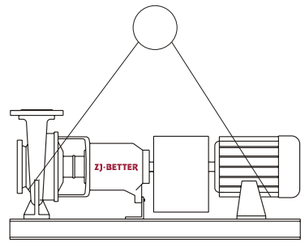


Figure 2

Lifting Instructions:

1) The lifting drawing is a schematic diagram of the position of the lifting rope when the whole pump is lifted.
2) Safe cranes and ropes should be selected according to lifting weight.
3) When hoisting, all positions where the rope contacts the pump should be padded with enough thickness of material to prevent damage to the appearance of the pump.

⚠ DO NOT STAND UNDER THE PUMP WHEN HOISTING.

1.8 Storage

If the equipment is to be stored for a period of time before debugging, it should be stored indoors or in a shelter. The maximum storage time is 12 months, and it is required to be placed in a dry place, and the rotor should be rotated once a month.

Installation Instructions

2. Pump Unit Installation, Operation and Maintenance

2.1 Installation

• Before installation, please check the packing list of the pump equipment and the data on the order form and the pump nameplate.

• Installation location: should be selected close to the transport liquid, so that the pump is installed with the minimum suction height and the shortest suction line, avoid direct sunlight and rain.

⚠ NOTE: The distance between the unit and the surrounding obstacles should be greater than 150mm to ensure that the motor fan has sufficient air source.

•The installation height of the pump, the length, diameter and flow rate of the pipeline should be calculated in order to reduce unnecessary losses.

•The installation height of the pump should be calculated according to the atmospheric pressure or the surface pressure of the altitude in different regions and the saturated vapor pressure of the different temperatures of the medium.

$$H_Z \leqslant H_A - H_V - \triangle h_s - NPSHr - 0.5\ (m)$$

H_Z---Pump installation height, the distance from the center line of the pump shaft to the water absorption level. When the calculated value is "+", it indicates that the center line of the pump shaft is higher than the distance of the water absorption level. The height of the pump installation can only be less than or equal to the calculated value; When the value is "-", it means that the water level is higher than the center line of the pump shaft. When installing, the liquid level should be greater than or equal to the absolute value of the calculated value.

H_A---water level pressure of Inhaled liquid m (liquid column)

H_V---Saturated vapor pressure of liquid at delivery temperature m (liquid column)

$\triangle h_s$---Total resistance loss in the suction pipe m (liquid column)

The saturated vapor pressure above can be found in the relevant manual or ask our company.

The normal atmospheric water standard atmospheric pressure state is calculated by the following formula:

$$H_Z \leqslant 10 - \triangle h_s - NPSHr - 0.5(m)$$

• Installation basis: The pump unit is placed on a solid foundation, preferably made of concrete, strong enough to support the pump unit.

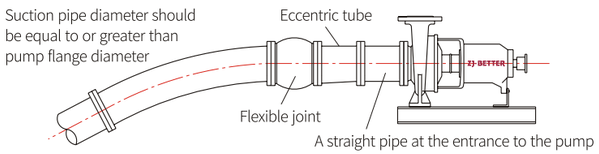
• Correction axis: When assembling the coupling, use a flat ruler, feeler gauge or dial indicator to detect the correction tolerance.

Coupling	Two-axis Radial Displacement	Inclination of Two Axes	End Clearance
Elastic sleeve pin	0.04～0.05	0.2/1000	2～4
Claw type, plum type	0.05～0.10	1/1000	2～3

• Suction and discharge pipes: All pipes must be installed in the correct position to be connected to the pump and secured with their respective brackets. In order to avoid excessive external torque acting on the pump, the inlet and outlet pipes should be connected by flexible joints. (The pipe connection method affects the vibration crack of the pump set)

⚠ NOTE: When installing the pipeline, especially the inlet pipeline, the pipeline welding slag, rust and dirt should be removed.

• Suction pipe: If pumping water from the pool, the length of the straight pipe before the suction port of the pump should not be less than 3 times the diameter of the inlet. The depth of the suction nozzle below the water surface should be greater than 1.5 times the diameter of the inlet and not less than 500mm. The distance between the suction nozzle and the pool wall should be greater than 1.5 times, the distance from the bottom of the pool should be greater than 1.5 times and not less than 500mm, and a filter screen should be added. The total area of the filter should not be less than 2 to 3 times the area of the suction nozzle.

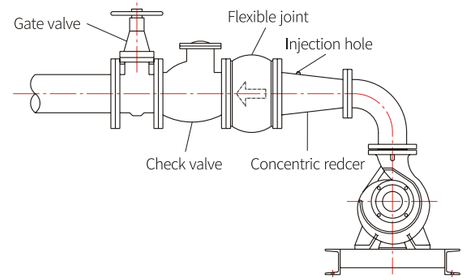


⚠ NOTE: The installation of the horizontal section of the suction pipe should be inclined downwards in the direction of the water flow to prevent the air from being trapped.

• Discharge pipe: The diameter of the discharge line should meet the flow demand, so the hydraulic friction loss of the line will not be too

Installation Instructions

large. When the drain line is fixed on an uneven floor, air bubbles are generated at a high point in the tube. At this point, it is important to install an exhaust valve at these locations to remove any air buildup that may affect the pump flow.



• Safety measures: In order to ensure the reliable operation of the motor, it is necessary to use the control cabinet of the regular manufacturer and the motor protection device should be installed.

⚠ WARNING: If the control cabinet is not installed, the motor will be damaged due to the full opening of the outlet valve or a sudden increase in current under certain conditions.

2.2 Operation

• Open the inlet valve and bleed plug, close the outlet valve, fill the pump with water, then close the bleed plug, or vacuum.

• The pump (motor) should be driven a few times before starting to prevent the pump from being damaged due to stuck, dry grinding and sudden starting.

• Start the motor and check that the steering is in the direction indicated by the arrow (clockwise rotation from the motor side).

⚠ NOTE: Read and pay attention to the warning signs before starting.

⚠ WARNING: It is strictly forbidden to test run when there is no water in the pump to avoid damage to the shaft seal.

• When the inlet valve is fully open and the outlet valve is closed, start the water pump, open the pressure gauge, and gradually open the outlet valve until the required operating conditions (when the outlet valve is closed, the running time should not exceed 3 minutes. If no liquid is withdrawn, immediately stop and check), pay attention to the current when the motor is running, should not exceed the rated current.

⚠ NOTE: The operating condition flow is not more than 120% of the rated flow of the product sample, and not less than 60% of the rated flow rate of the product. During operation, the actual lift H = (P out - P into) / 0.0098 should not be less than the head corresponding to the large flow rate given in the performance table (P is the value of the pressure gauge at the exit, P The value of the vacuum pressure gauge at the inlet flange of the pump, pressure unit: MPa, head unit: m). The ideal and efficient operating conditions are the intermediate points given in the performance table, which can be adjusted by observing the inlet and outlet (vacuum) pressure gauges.

• Shutdown sequence: Close the valve on the discharge pipe - motor - pressure gauge.

2.3 Maintenance

• Always check for smoothness and mechanical seal wear and leakage during operation, and replace the seals in time to prevent pressurized water from entering the bearing.

• Always check the temperature change of the bearing housing, the maximum temperature should not exceed 80 degree (GB50275-98).

• Always check the inlet tank for any changes in float and water level. If the inlet tank falls below the minimum water level, the pump should stop running to avoid cavitation and damage the impeller. If necessary, the outlet valve can be adjusted to reduce the amount of water pumped out and promote the water level of the pool.

• Pay attention to the changes in the pressure gauge and the ammeter. If find an abnormality, take appropriate measures in time.

• When the pump is deactivated for a long time, it should be drained, to remove rust and coated with anti-rust grease.

⚠ NOTE: The machine must be disconnected from the power source before servicing, replacing parts, or when assembling and reassembling the motor.

2.4 Lubricating

• For bearings with a dust-proof (sealed) cover on both sides, the bearing is filled with grease for a certain period of life without additional grease.

• For suspensions with greased holes, apply an appropriate amount of No. 3 lithium complex grease to the oil cup with a high pressure oil gun for every 500-1000 hours of operation.

Installation Instructions

• For suspensions with oil holes, the bearing oil should be added before operation. The oil level should not be lower than the center of the oil mirror, and should not be higher than 2/3 of the oil mirror; the first oil change time is 500 hours, and then replaced every six months.

The bearing lubricants are selected as follows:

Bearing Operating Temperature Range	Applicable Lubricant Grade
-30°C～0°C	ISO VG15、22、32 Frozen oil
0°C～50°C	ISO VG32、46、68 Bearing oil
50°C～80°C	ISO VG100、150、220 Bearing oil
80°C～110°C	ISO VG320、460 Bearing oil
Note: Different grades of lubricants are forbidden to be mixed.	

⚠ NOTE: The replacement cycle of lubricating oil and grease is shortened as the operating temperature of the bearing increases.

3. Disassemble Sequence

1) When the drive connection is "with intermediate section coupling", the middle part of the drive is removed first, then the pump rotor part can be withdrawn; if there is no intermediate section, the motor foot bolt must be removed first, and the motor is moved backwards;

2) Remove the pump cover (or suspension) and the pump body connecting bolts, and take the suspension components together with the pump cover, impeller, etc. from the pump body;

3) Loosen the impeller nut for about 2 turns, insert a pair of wooden or metal wedges between the impeller and the pump cover, use a hard-wood block to hold the impeller nut, then use a hammer to quickly hit the wooden mat, remove the impeller, the key and the sleeve portion;

4) Loosen the pump cover and suspension connecting bolts and remove the pump cover;

5) Remove the bearing gland and suspension coupling bolts, then remove the bearing gland, shaft and bearing.

⚠ NOTE: If the bushing and packing seal ring are damaged, please contact our sales department.

4. Installation Sequence

The sequence of installation is opposite to the sequence of disassembling.

⚠ NOTE: During the installation process, the sealing surface should be kept clean, and some small parts such as keys and water retaining rings. O-rings and the like are easily omitted or misplaced.

⚠ NOTE: When installing a mechanical seal, check all seal components for failure and damage. The rubber parts and sealing surfaces should be kept clean. When the sealing parts are introduced, special lubricating oil (such as silicone oil) should be used. Ethylene propylene rubber should be banned from mineral oil.

Attached: main parameters of the pump nameplate (example)

Model: ISO 200×150-500
Flow: 400m³/h Speed：1450r/min
Head: 90m Impeller Diameter: 547mm

The nameplate indicates the type, configuration, operation data and product code of the pump. Please provide such information when repeat orders and order spare parts. If you need additional information that is not available on the instructions or in case of damage to the instructions, please contact Better Technology Service Center.

⚠ NOTE: The above are the main technical parameters of the pump at current 50Hz. Please refer to the nameplate technical parameters for the performance of the XA pump of the specific specification you purchased.
⚠ NOTE: When corrosive medium or medium temperature is higher than 80 degree, please specify when ordering.
⚠ WARNING: Do not incinerate rubber seals in the pump, such as auxiliary seals for mechanical seals, O-type seals, etc., to avoid harmful gases polluting the environment and endangering human health.
⚠ DANGER: Wiring connections and line maintenance between the pump unit and the power supply must be performed by qualified personnel.

The Cause of the Failure and Its Solution

Insufficient pump flow	Motor overload	Pump outlet pressure is high	Bearing temperature rise is too large	Pump leakage	Shaft seal leakage	Pump running vibration is too large	Pump temperature rises too high	Failure/cause	Solution
◆								Pump outlet pressure is too large	Adjust the outlet valve so that the pump pressure meets the operating conditions
◆								The lift of the device is too high or the resistance is too high	Increase the speed or remove any debris from the pipeline
◆						◆	◆	Pump or suction pipe does not completely exclude air or fill liquid	Drain the air or fill it with liquid
◆								Inhalation pipe diameter is too small or there is debris blocking	Increase the diameter of the pipe to remove the blockage
◆								Easy to accumulate air in the suction pipe	Properly design the suction pipe; set the exhaust valve
			◆		◆	◆		The pump is deformed by additional external force of the pipeline, or the pump and the pipeline resonate	Check the pipe connection to avoid additional external force on the pump and reduce the pipe support spacing if necessary, supported by anti-vibration material.
◆						◆	◆	Sucking height is too large Excessive suction line resistance NPSHa is too small	Reduce the installation height of the pump or raise the liquid level; Fully open suction pipe valve; Increase the diameter of the suction pipe; Increase the suction filter area.
	◆		◆			◆	◆	The rotating part has friction with the fixed part	Check the pump for any inhaled debris or the cause of friction
			◆					Additional axial force	Correct the coaxiality between the pump shaft and the motor shaft
◆								Leakage at the shaft seal	Adjust or replace the shaft seal
◆								Inhalation pipe is not deep enough or leaking	Increase the immersion depth, repair the pipeline, and block the leak
◆								Wrong direction of rotation	Change motor steering
						◆		Bearing wear or damage	Replacement of new bearings
			◆			◆	◆	Pump operating conditions flow is too small	Increase pump flow or set bypass bypass pipe
	◆					◆		The operating conditions do not match the order, and running at a large flow rate.	Use the outlet valve to adjust the condition or select new model
◆	◆							The density and viscosity of the medium are inconsistent with the order	Select new model
					◆			The material selection of the shaft seal is not suitable	Use the right material
	◆	◆						Speed is too high	Check the motor speed and current according to the motor nameplate
				◆				The bolts are not tightened and the sealant and gasket are invalid	Tighten the bolts and replace the gasket with a suitable sealant
					◆			Machine seal damage	Change
◆								Excessive wear or damage of the seal ring	Replace the new seal ring
					◆			Pump running vibration	Improve inhalation conditions and increase pump suction pressure; Re-adjust the pump to the motor; rebalance the impeller.
			◆		◆	◆		Pump shaft and motor shaft are asymmetrical	Check and readjust the coaxiality of the couplings
			◆					Grease/oil failure or improper grade	Add the appropriate amount of grease/oil to the bearing cavity.
	◆							Operating voltage is too low	Increase the voltage
						◆		Rotor imbalance	Clean the impeller and rebalance the impeller

★ NOTE: Please keep this instruction properly for use in pump upkeep and maintenance. If you do not understand this instruction, please contact us.