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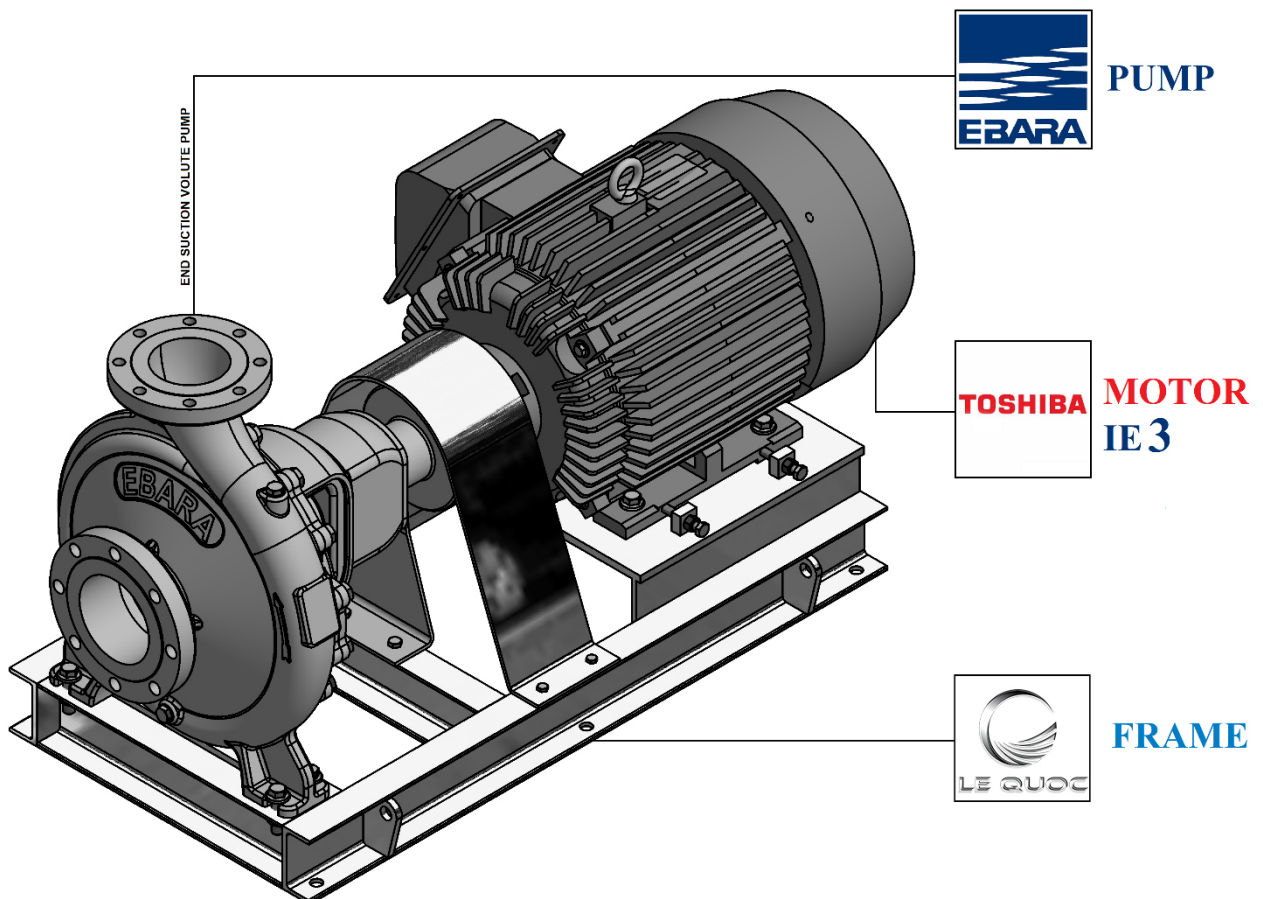
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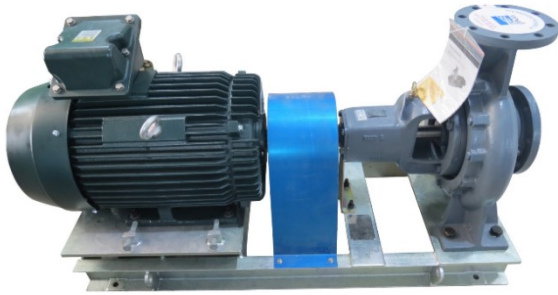
LQP High performance water pump combination

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LQP Tổ Hợp Máy Bơm Nước Hiệu Suất Cao
LQP High Performance Water Pump Combination

Ứng dụng Application



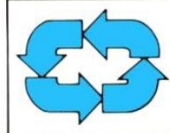
- Hệ thống điều hòa không khí hoặc trao đổi nhiệt.
- Vận chuyển nước nóng và lạnh.
- Hệ thống cấp nước cho các tòa nhà.
- Hệ thống cấp nước công nghiệp.
- Hệ thống cấp nước chữa cháy.

- Air-condition cold or hot water circulation.
- Hot and cold water circulation
- Water-supplying system of apartment building.
- Industrial water supply.
- Fire-fighting water system
- Farm water irrigation, waste water treatment.



Water Supply

- Boosting pump System
- High-rise building



Water Circulation

- Circulating of water in Heating and cooling



Đặt Tính

- Dễ dàng tháo lắp và bảo trì, BPO (Tháo rút kéo) cho phép việc tháo rút chi tiết đầu bơm “như: Vòng bi, trục và cánh bơm” một cách dễ dàng mà không cần tháo mở đường ống.
- Thân bơm, gối đỡ được đúc liền mảnh chắc chắn nhằm chống lại sự rung động khi vận hành.
- Thiết kế chống quá tải để ổn định hiệu suất khi vận hành.
- Phạm vi ứng dụng rộng rãi với lưu lượng lên tới 20 m³/phút ~ 1320 m³/giờ.
- Áp suất làm việc cao lên tới 16bar ~ 160 mét cột áp.
- Công suất : từ 0.37kW đến 335kW.

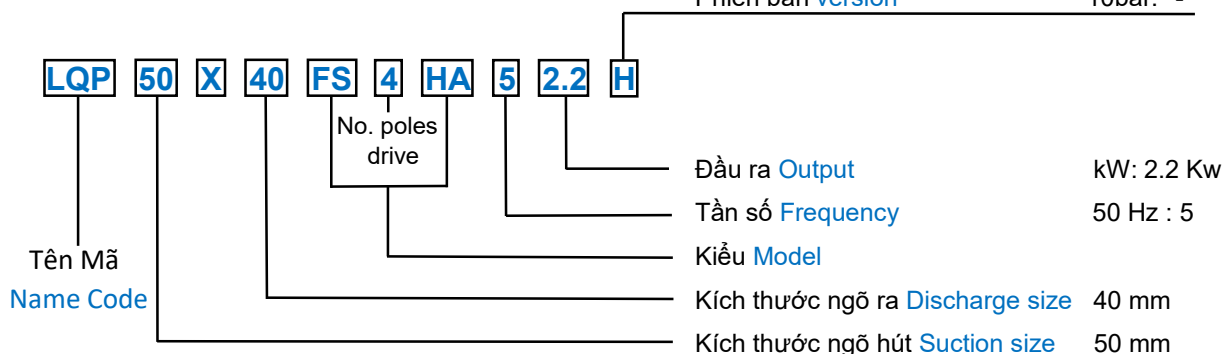
Features

- Easy removal and maintenance, BPO (Back Pull Out) system allows all rotating element to be removed without disconnecting suction and discharge pipe work.
- Top centreline discharge, foot support under casing for maximum resistance to misalignment and distortion from pipe loads.
- Non-overload design to ensure stable performance for all applications
- Wide range application with flow capacity up to 22 m³/min ~ 1320 m³/h.
- Higher working pressure up to 16 bar ~ 160 mH₂O.
- Capacity: from 0.37 kW to 335kW.

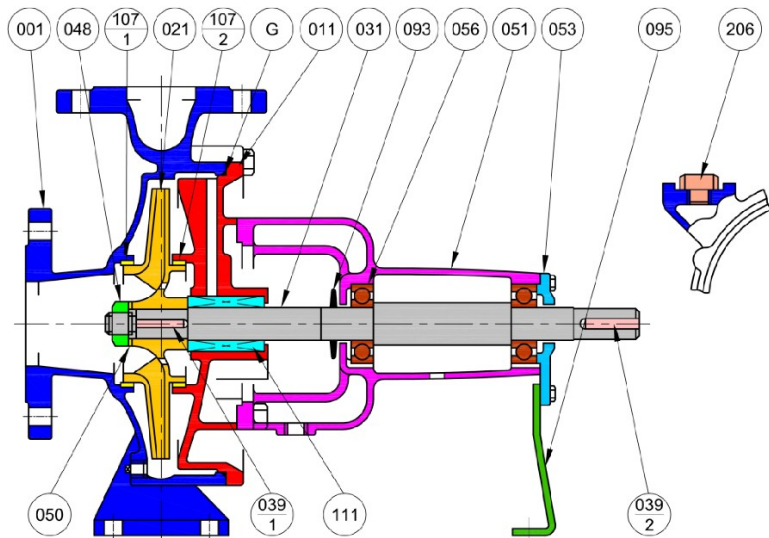
SPECIFICATIONS

DESCRIPTION		Standard		Optional	
		2 poles model	4 poles model	2 poles model	4 poles model
Liquid	Name	Clean water			
	Temperature	0 to 80°C (32 to 176°F)			
Max. Working Pressure		10 bar (10.2 kgf/cm ²) for standard flange JIS 10K RF 16 bar (16.3 kgf/cm ²) for standard flange JIS 16K RF		16 bar (16.3 kgf/cm ²)	
Synchronous Speed		3000 min ⁻¹	1500 min ⁻¹		
Installation		Indoor		Outdoor	
Construction	Impeller	Enclosed			
	Shaft seal	Mechanical seal		Gland Packing	
	Sealing	Self flushing		External flushing	
	Bearing	Sealed ball bearing		Oil bath (some models only)	
Flange	Suction & Discharge	Suction < Ø 150mm, except 100X65 FSKA : JIS 10K RF		16 bar : JIS 16K RF ; DIN PN-16	
		100X65 FSKA : JIS 16K RF		DIN PN-16	
		Suction = Ø 150mm, except below models : JIS 10K RF		16 bar : JIS 16K RF ; DIN PN-16	
		150X100 FSKA; 150X100 FSNA : JIS 16K RF		DIN PN-16	
		Suction = Ø 200mm, except below models : JIS 10K RF		16 bar : JIS 16K RF ; DIN PN-16	
		200X150 FSLA; 200X150 FSNA : JIS 16K RF		DIN PN-16	
Suction = Ø 250mm : JIS 16K RF		DIN PN-16			
Material	Casing	Cast Iron		Ductile Cast Iron (FCD)	
	Impeller	BronzeCasting (CAC406/BC6)		Cast Iron; Ductile Cast Iron (FCD)	
	Shaft	403 Stainless steel		304; 316 Stainless steel	
	seal	Mechanical Seal: Ceramic/Carbon/NBR		Gland Packing : Teflon (PTFE) impregnated Mechanical seal : SiC/SiC	
Accessories	Bare shaft			Priming funnel; valve; Companion Flange	
	With motor	Common base, Coupling guard		Priming funnel; valve; Companion Flange	

Trình Tự Ký Hiệu Type Description

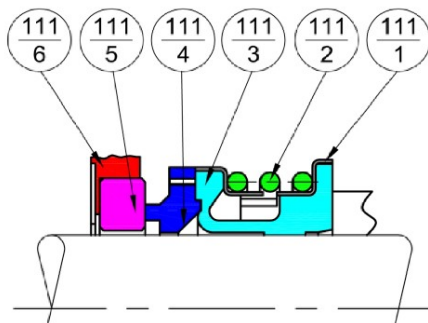


SECTIONAL VIEW (General)



No.	Part Name	Material	Qty
001	Casing	Cast iron	1
011	Casing cover		
021	Impeller	Bronze	
031	Shaft	Stainless steel	
039-1	Impeller key		
039-2	Coupling key		
048	Impeller nut	Brass	
050	Impeller nut washer		
051	Bearing housing	Cast iron	
053	Bearing cover		
056	Ball bearing	-	2
093	Deflector	Rubber	1
095	Bearing support	Steel	
107-1	Casing ring	Bronze	
107-2	Casing ring		
111	Mechanical seal	-	
206	Plug	Steel	
G	o-ring	Rubber	

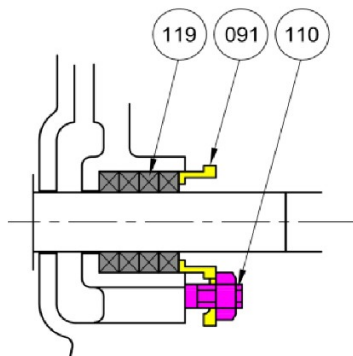
Mechanical Seal Type (Standard)



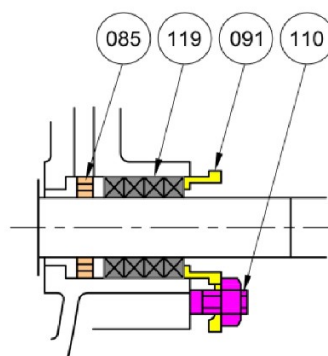
Mechanical Seal Detail			
No.	Part Name	Material	Qty
111-1	Spring Holder	Stainless steel	1
111-2	Coil Spring		
111-3	Bellows	NBR	
111-4	Seal Ring	Carbon	
111-5	Matting Ring	Ceramic	
111-6	Cup Gasket	NBR	

Gland Packing Type (Optional)

Without Lantern Ring



With Lantern Ring



No.	Part Name	Material	Qty
091	Gland	Bronze	1
110	Gland Bolt	Brass	2
119	Gland Packing	Non-Asbestos	4 or 5

No.	Part Name	Material	Qty
085	Lantern ring	Bronze	1
091	Gland		
110	Gland Bolt	Brass	2
119	Gland Packing	Non-Asbestos	4 or 5

Pump Model:

50x40 FSHA;
 65x50 FSHA, 65x50 FSJA;
 80x65 FSGA, 80x65 FSHA;
 100x80 FSGA;
 125x100 FSLA;
 150x100 FSKA, 150x100 FSNA;
 150x125 FSKA, 150x125 FSLA;
 200x150 FSJA, FSLA, FSNA;
 250x200 FSLA, 250x200 FSNA.

Pump Model:

80x65 FSJA, FSKA;
 100x65 FSKA;
 100x80 FSHA, FSJA, FSGCA, FSHCA;
 125x100 FSJCA, FSKA;
 150x125 FSHA, FSJA;
 200x150 FSHA, FSKA;

KÍCH THƯỚC – Bơm DIMENSION – Pump Pump (10 BAR Model)**4 POLES - 50Hz – 3 PHASE (1500min⁻¹)**

Code Model	Motor (IE3)				Weight	Size		Total			Weight
	kW	Frame	ML	BB	Kg	Ø1	Ø2	Hight	Length	Width	kg
LQP 50x40 FS4HA	0.75	80M	303	135	20	50	40	420	745	330	80
LQP 65x50 FS4HA	0.75	80M	303	135	20	65	50	420	770	370	87
LQP 65x50 FS4JA	1.5	90L	362	165	21	65	50	485	825	420	100
	2.2	100L	370	180	30				834		112
LQP 80x65 FS4GA	0.75	80M	303	135	20	80	65	420	770	370	87
LQP 80x65 FS4HA	1.5	90L	362	165	21	80	65	440	825	370	92
LQP 80x65 FS4JA	2.2	100L	370	180	30	80	65	485	835	420	120
	4.0	112M	385	190	39				850		130
LQP 80x65 FS4KA	5.5	132S	450	205	62	80	65	585	1050	520	230
	7.5	132S	450	205	70			605			240
	11	160M	613	265	102			1213	540	285	
LQP 100x80 FS4GA	1.5	90L	362	165	21	100	80	440	825	380	100
	2.2	100L	370	180	30				835		109
LQP 100x80 FS4HA	2.2	100L	370	180	30	100	80	485	835	420	125
	4.0	112M	385	190	39				850		135
LQP 100x80 FS4JA	4.0	112M	385	190	39	100	80	530	850	460	151
	5.5	132S	450	205	62				915		177
LQP 100x80 FS4GCA	2.2	100L	370	180	30	100	80	485	860	420	124
	4.0	112M	385	190	39				875		137
LQP 100x80 FS4HCA	5.5	132S	450	205	62	100	80	510	940	450	179
	7.5	132S	450	205	70			530			193
LQP 125x100 FS4JCA	5.5	132S	450	205	62	125	100	585	955	520	233
	7.5	132S	450	205	70			605			255
	11	160M	613	265	102			1118	540	298	
LQP 125x100 FS4KA	15	160L	613	310	119	125	100	665	1228	560	331
	18.5	180M	755	315	206				1370		393
LQP 125x100 FS4LA	22	180L	755	350	212	125	100	775	1430	690	459
	30	200L	853	380	294				1528		532
LQP 150x125 FS4HA	7.5	132S	450	205	70	150	125	665	1065	540	261
	11	160M	613	265	102				1228		286
	15	160L	613	310	119				685		1228

KÍCH THƯỚC – Bơm **DIMENSION – Pump (10 BAR Model)**

Code Model	Motor (IE3)				Weight Kg	Size		Total			Weight kg
	kW	Frame	ML	BB		Ø1	Ø2	Hight	Lengt h	Width	
LQP 150x125 FS4JA	15	160L	613	310	119	150	125	725	1228	560	329
	18.5	180M	755	315	206				1370		392
	22	180L	755	350	212				745	580	447
LQP 150x125 FS4KA	30	200L	853	380	294	150	125	775	1528	690	534
	37	225S	885	380	344				1560		657
LQP 150x125 FS4LA	45	225S	885	380	374	150	125	855	1560	710	682
	55	250M	911	445	457				1586		817
	75	280S	965	485	590				875	1640	891
LQP 200x150 FS4HA	5.5	132S	450	205	62	200	150	715	1085	630	284
	7.5	132S	450	205	70						1248
	11	160M	613	265	102					735	650
LQP 200x150 FS4JA	15	160L	613	310	119	200	150	775	1308	670	426
	18.5	180M	755	315	206				1450		441
	22	180L	755	350	212				690	1450	474
	30	200L	853	380	294					1548	547
	37	225S	885	380	344					795	1580
LQP 200x150 FS4KA	37	225S	885	380	344	200	150	855	1690	690	708
	45	225S	885	380	374						1746
	55	250M	911	445	457					875	710
LQP 150x100 FS4NA	55	250M	911	445	457	150	100	985	1766	760	1030
	75	280S	965	485	590				1820		1120
	90	280M	1016	536	654				1871		1250
LQP 200x150 FS4LA	75	280S	965	485	590	200	150	925	1802	760	1070
	90	280M	1016	536	654				1853		1191
LQP 200x150 FS4NA	110	315S	1231	570	1060	200	150	1115	2088	780	1434
	132	315M	1341	680	1120				2198		1677
	160	315L	1341	680	1200				2198		1804
LQP 250x200 FS4LA	90	280M	1016	536	654	250	200	1125	1105	880	1462
	110	315S	1231	570	1060				2086		1528
	132	315M	1341	680	1120				2196	900	1725
	160	315L	1341	680	1200						1841
LQP 250x200 FS4NA	200	315L	1341	680	1295	250	200	1265	2366	920	2800
	250	355M	1531	750	1820				2556		3750
	315	355L	1531	750	2000						4150

INSTALLATION SKETCH MAP

