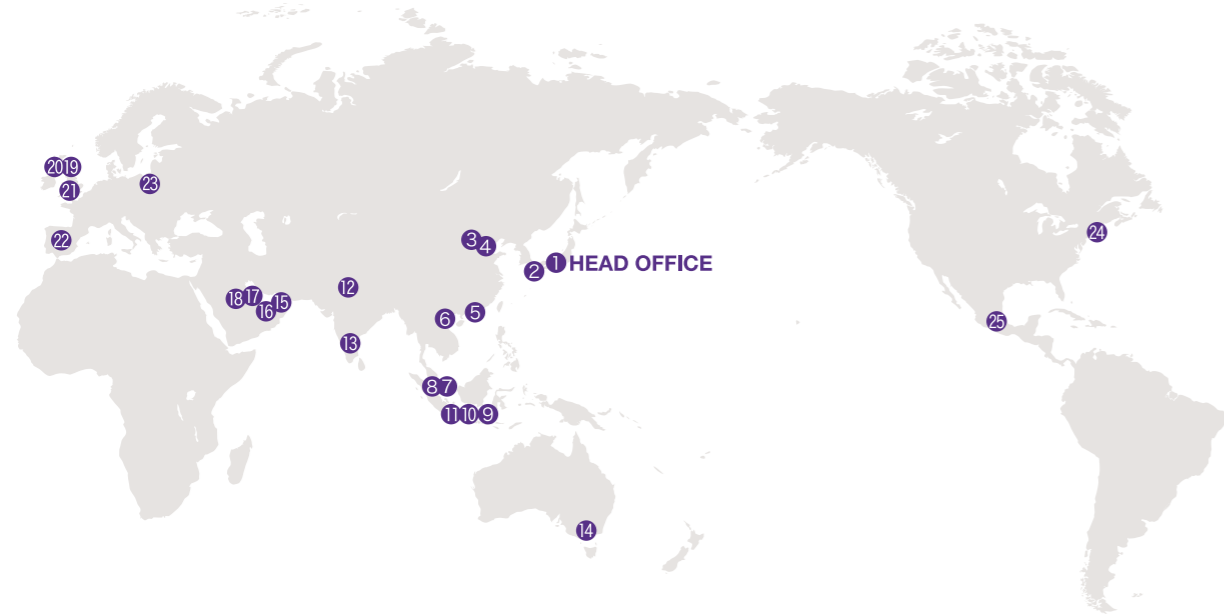


Torishima Pump Global Network



East Asia

- 1 Torishima Pump Mfg. Co., Ltd. ■ ■
1-1-8 Miyata-cho, Takatsuki-city, Osaka 569-8660 Japan
Tel : +81-72-690-2308 / Fax : +81-72-690-2329
- 2 Kyushu Torishima Co., Ltd. ■
9857-13, Ohaza Kawako, Wakagi-cho, Takeo-city,
Saga 840-0813 Japan
Tel : +81-954-26-3081 / Fax : +81-954-26-3080
- 3 Torishima Pump Mfg. Co., Ltd.
Beijing Office
Rm707, Building 1, KUNSHA CENTER,
No.16 Xinyuanli, Chaoyang District,
Beijing, P.R.China PC:100027
Tel : +86-10-84682891 / Fax : +86-10-84682890
- 4 Torishima Pump (Tianjin) Co., Ltd. ■
No.9 Gaoxin Road, Wuqing Development Zone,
Tianjin, P.R.China PC:301700
Tel : +86-22-59695601 / Fax : +86-22-59695609
- 5 Torishima (Hong Kong) Ltd. ■ ■
Unit A, 21/F., Tower A, Billion Centre,
1 Wang Kwong Road, Kowloon Bay, Kowloon,
Hong Kong
Tel : +852-2795-1838 / Fax : +852-2754-3293

South East Asia

- 6 Torishima (Hong Kong) Ltd.
Vietnam Office
No.76 Bui Thi Xuan Street, Hai Ba Trung District,
Hanoi, Socialist Republic of Vietnam
Tel : +84-4-943-7880 / Fax : +84-4-943-7876
- 7 Torishima Pump Mfg. Co., Ltd.
Singapore Office
82 Toh Guan Road East, #C2-14-4 WaterHub,
Singapore 608576
Tel : +65-6779-0123 / Fax : +65-6779-6900
- 8 Torishima Service Solutions
Asia Pte. Ltd. ■
48, Toh Guan Road East, #02-142,
Enterprise Hub, Singapore 608586
Tel : +65-6933-8772 / Fax : +65-6933-8777

- 9 P.T. Torishima Guna Engineering ■ ■
10 P.T. Torishima Guna Indonesia ■ ■
Jalan Rawa Sumur Timur No.1 Pulogadung
Industrial Estate, P.O.Box 1160, Jakarta, Indonesia
Tel : +62-21-460-3963 / Fax : +62-21-460-3937
- 11 P.T. Geteka Founindo ■ ■
JL Pulo Ayang Kav. AA2 Pulogadung Industrial
Estate, P.O.Box 1160 JAT, Jakarta 13011 Indonesia
Tel : +62-21-460-3963 / Fax : +62-21-460-3937

South Asia

- 12 Torishima Pumps India Pvt. Ltd.
302 & 302A, 3rd Floor, Tower-B, Millennium Tower,
Sector27, Gurgaon-122002, Haryana, India
Tel : +91-124-4728950 / Fax : +91-124-4728950
- 13 Torishima Pumps India Pvt. Ltd.
Service Division ■ ■
Plot No. 27 B, C, D, Hoskote KIADB Industrial Area,
Chokkahalli Village, Kasaba Hobli, Hoskote Taluk,
Bangalore-562114, Karnataka, India
Tel : +91-80-39581000 / Fax : +91-80-39581010

Oceania

- 14 Torishima Australia Pty. Ltd.
643-645 Glenhuntly Road,
Caulfield South VIC 3162 Australia
Tel : +61-3-9523-7998

Middle East

- 15 Torishima Service Solutions FZCO ■ ■
Plot of Land TP010501 Techno Park-Jebel Ali,
PO Box. 37603 Dubai, U.A.E.
Tel : +971-4-880-7344 / Fax : +971-4-880-7354
- 16 Torishima Pump Mfg. Co., Ltd.
Middle East Office
Office No.901, Deluxe Tower, Delma Street,
Al Nahyan Camp Area, P.O.Box 53567,
Abu Dhabi, U.A.E.
Tel : +971-2-674-3880 / Fax : +971-2-674-3881
- 17 Torishima Pump Mfg. Co., Ltd.
Qatar Project Office
Office No.11,1st Floor, West Corner Centre,
Salwa Road-Midmac R/A,
P.O.Box 37027 Doha, Qatar
Tel : +974-4450-6915 / Fax : +974-4450-6916

- 18 Torishima Pump Mfg.Co.,Ltd.
Saudi Arabia Office
Al Riyadh, Al Khair Plaza, Office No.2
Al Amir Muhd IBN A.A. Road, Althalea
SP-643351929, Kingdom of Saudi Arabia
Tel : +966-11-2931366

Europe

- 19 Torishima Europe Ltd.
2 Colliery Gate, Clyde Gateway East, Glasgow
G32 8RH Scotland, UK
Tel : +44-1236-443951 / Fax : +44-1236-702875
- 20 Torishima Service Solutions
Europe Ltd. ■ ■
2 Colliery Gate, Clyde Gateway East, Glasgow
G32 8RH Scotland, UK
Tel : +44-1236-442390 / Fax : +44-1236-702875
- 21 Torishima Europe Projects Ltd.
Torishima House, Brook Lane, Westbury,
Wiltshire BA13 4ES England, UK
Tel : +44-1373-858143
- 22 Torishima Europe Ltd. Madrid Office
Avda, Fuente Nueva 12, 28703
San Sebastian de los Reyes, Madrid, Spain
Tel : +34-91-002-7541 / Fax : +34-91-284-6901
- 23 Torishima Europe Ltd. Poland Office
ul. Pomianowska 7, 03-136 Warszawa, Poland
Tel : +48-604-557-137

North America

- 24 Torishima Pump Mfg. Co., Ltd.
North America East Office
100 Grove Street, Suite 217, Worcester
MA 01605-2654 U.S.A.
Tel : +1-508-753-6600 / Fax : +1-508-753-8276

Central America

- 25 Torishima Europe Ltd. Mexico Office
Av Paseo de La Reforma 350,11th floor,
Juárez,Cuauhtémoc, 06600
Ciudad de México,D.F., México
Tel : +52-55-9171-1426 / Fax : +52-55-9171-1499

CAL (Cast Iron)

CAR (Stainless Steel)

End-Suction Volute Pump



CAL



CAR

Enhanced Safety with Shaft Guard and Totally Enclosed Coupling Guard

The Eco-Pumps (CAL/CAR) are equipped with a shaft guard and totally enclosed coupling guard. A totally enclosed coupling guard improves safety and maintenance compared to an existing coupling guard due to the wide area of coverage.

Higher Speed Enables Pump Size to be Reduced

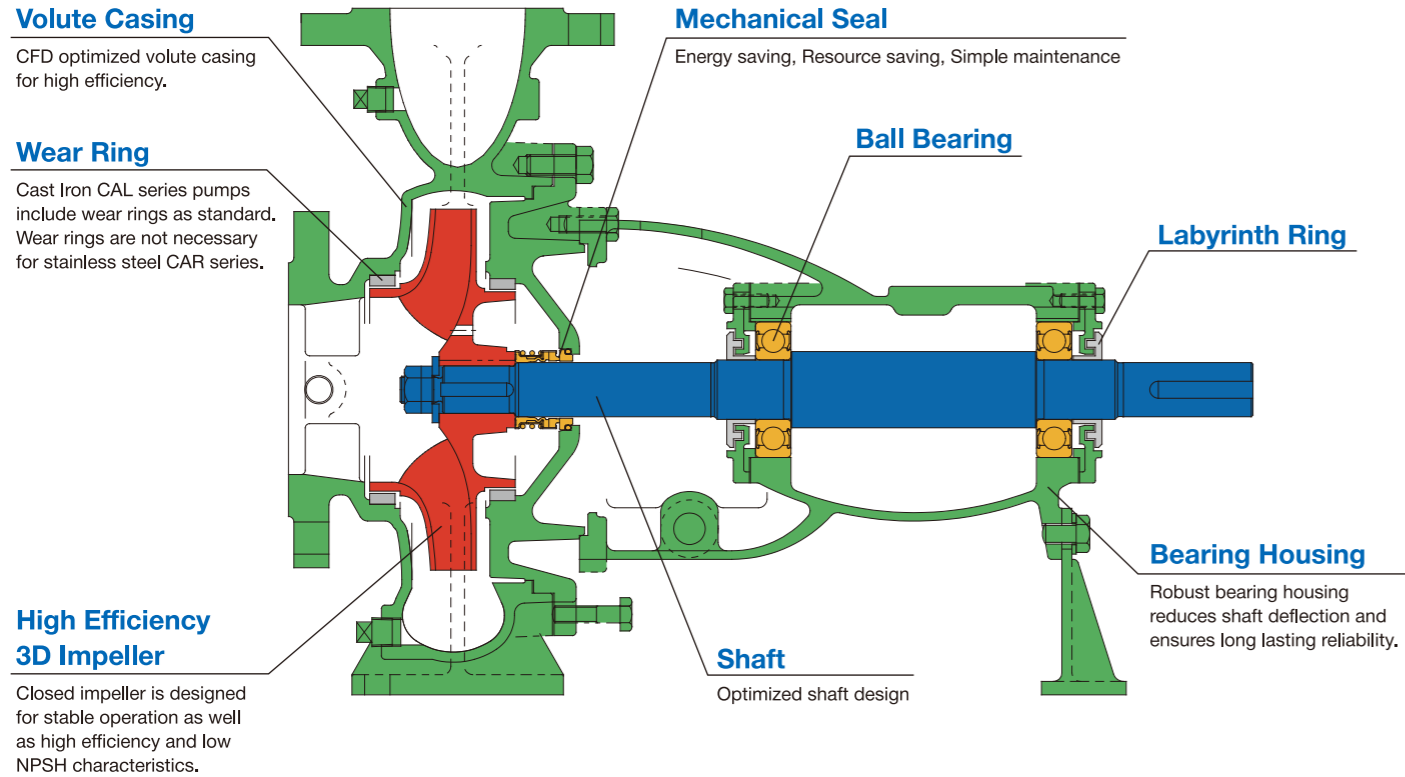
Increasing the pump speed by using a 2 pole motor reduces the pump size and weight.

**Weight reduced by 47%
compared to 4P!**

$$=(400-209) \div 400 \times 100$$

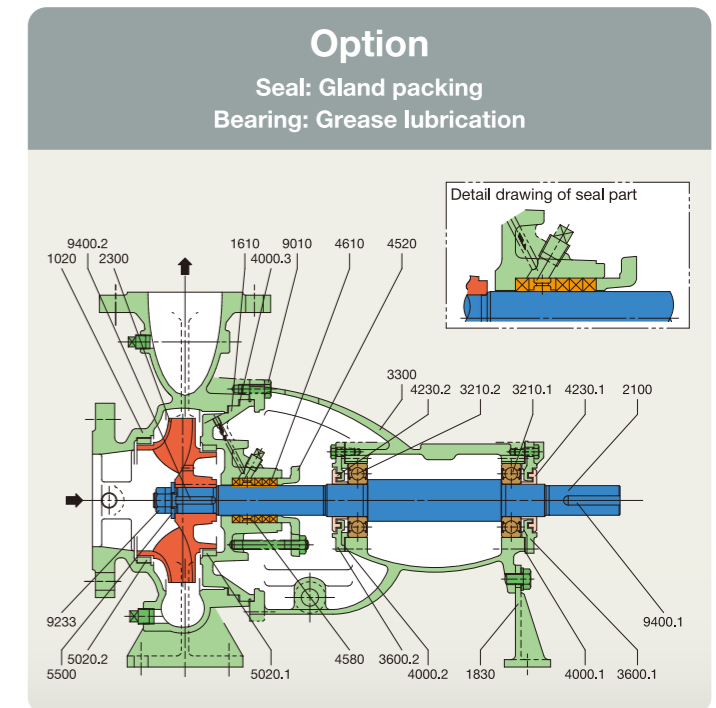
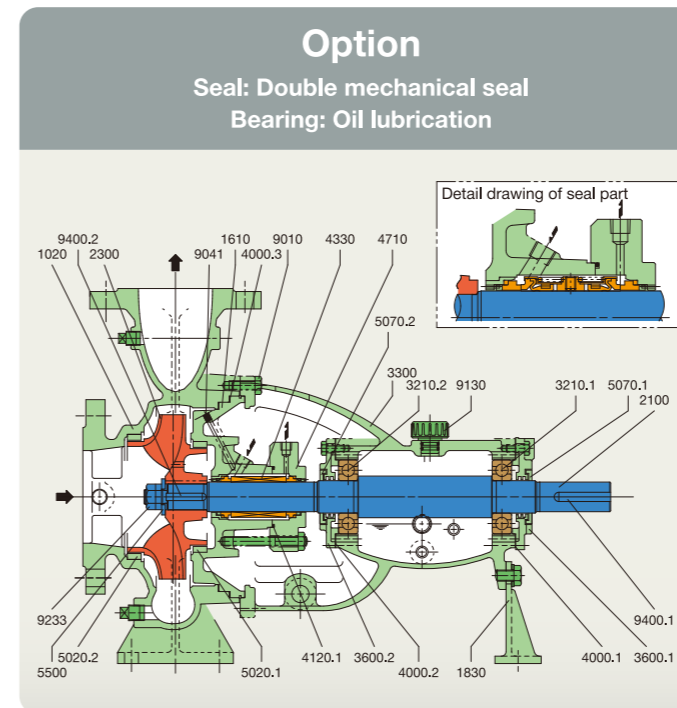
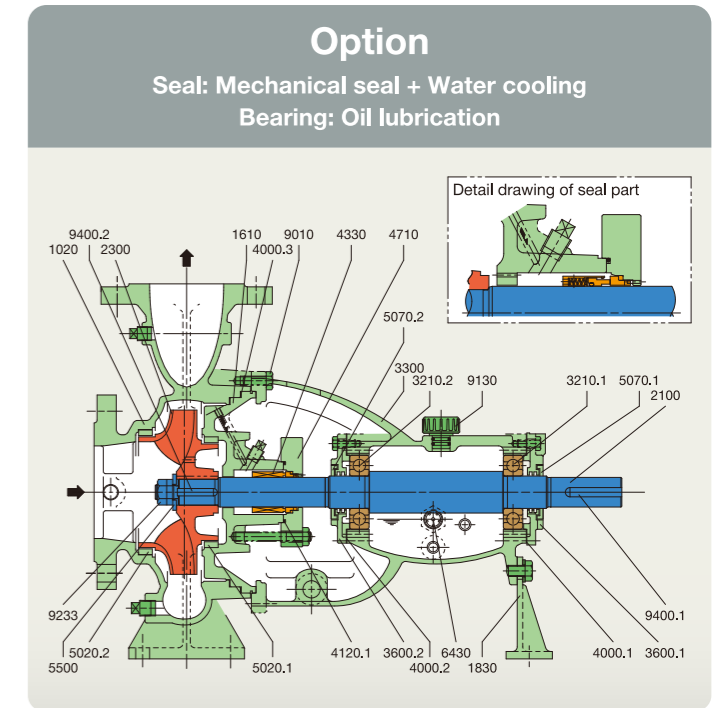
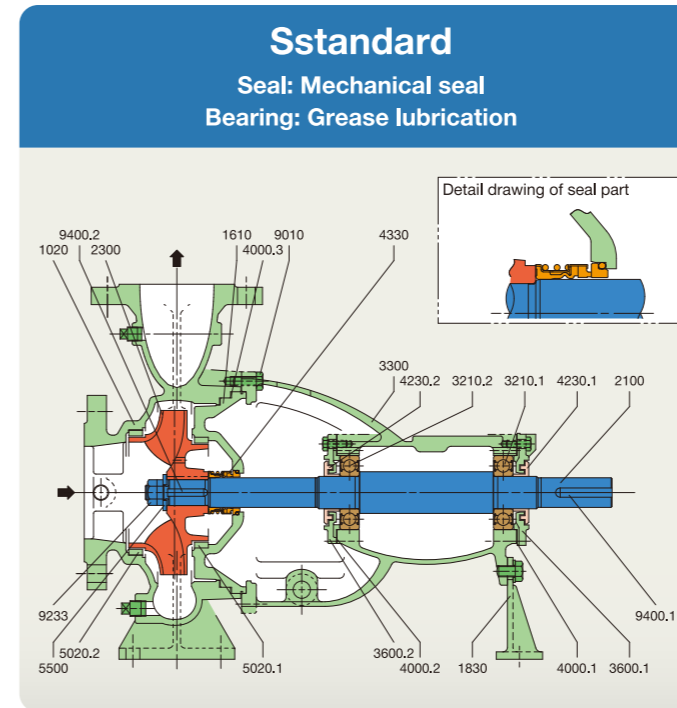
The above diagram describes characteristics of 2P.
We can provide the design

Design Features



Pump Sectional Drawing

The basic structure is same between CAL and CAR for parts interchangeability. CAR, which is made from stainless, does not require case wear ring. Due to adopting build to order method, various combination with pump material, seal and bearing is available according to liquids kinds and temperature.



Parts Interchangeability

■ **2P type** Same color and number in the same parts indicate interchangeability.

Pump type	Casing	Casing Cover	Bearing Housing	Shaft	Mechanical Seal
32-125	1	1	1	1	1
40-125	2				
65-125	3				
32-160	4	2	1	1	1
40-160	5				
50-160	6	3	1	1	1
32-200	7				
40-200	8				
50-200	9	4	2	2	2
80-160	10				
80-200	11	5	3	3	2
32-250	12				
40-250	13				
50-250	14	6	3	3	2
80-250	15				

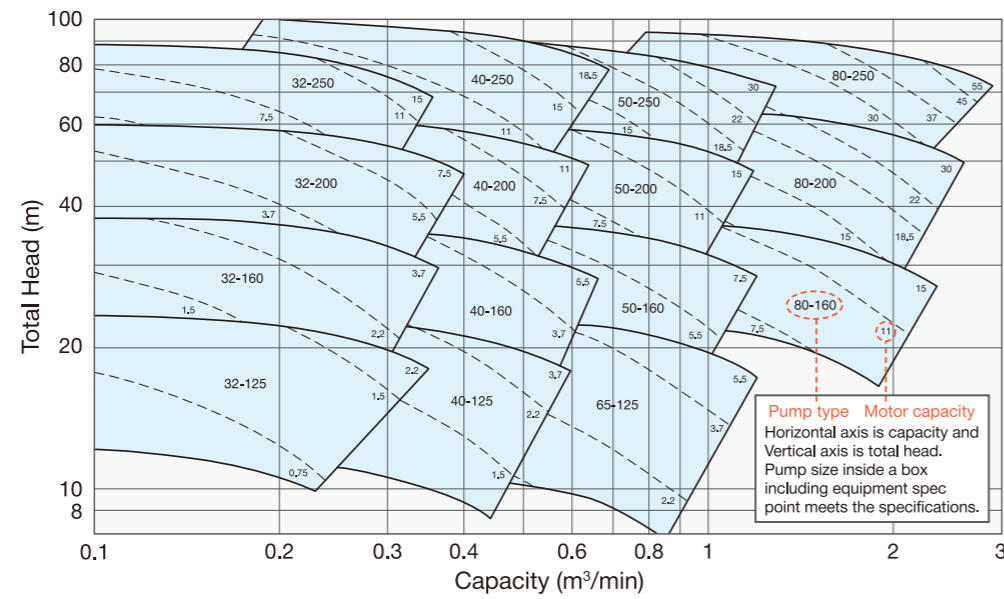
■ **4P type** Same color and number in the same parts indicate interchangeability.

Pump type	Casing	Casing Cover	Bearing Housing	Shaft	Mechanical Seal
32-125	1	1	1	1	1
40-125	2				
65-125	3				
32-160	4	2	1	1	1
40-160	5				
50-160	6	3	1	1	1
65-150	7				
32-200	8				
40-200	9	4	2	2	2
50-200	10				
65-190	11	5	2	2	2
80-150	12				
80-190	13				
100-190	14	6	2	2	2
32-250	15				
40-250	16	7	2	2	2
50-250	17				
65-240	18				
80-240	19	8	2	2	2
100-245	20				
100-250	21	9	3	3	3
50-315	22				
65-310	23				
80-310	24	10	3	3	3
100-310	25				
150-190	26	11	4	4	3
150-200	27				
125-240	28				
125-250	29	12	4	4	3
200-240	30				
200-250	31	13	4	4	3
125-310	32				
125-315	33				
80-400	34	14	5	5	4
100-400	35				
125-400	36	15	5	5	4
150-310	37				
150-315	38	16	5	5	4
150-390	39				
150-400	40				

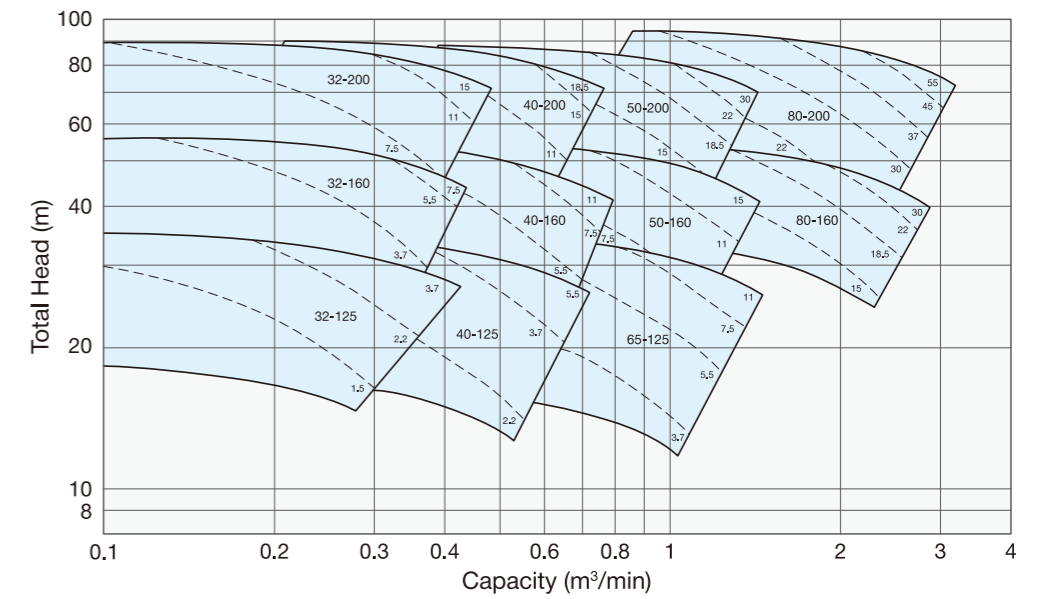
Parts number	Parts name	Parts number	Parts name	Parts number	Parts name	Parts number	Parts name
1020	Volute casing	3600.2	Bearing cover	4580	Lantern ring	9010	Hex. bolt
1610	Casing cover	4000.1	Flat gasket	4610	Gland packing	9041	Nock
1830	Support foot	4000.2	Flat gasket	4710	Seal cover	9130	Plug
2100	Shaft	4000.3	Flat gasket	5020.1	Casing wear ring	9233	Lock nut
2300	Impeller	4120.1	O-ring	5020.2	Casing wear ring	9400.1	Key
3210.1	Deep groove ball bearing	4230.1	Labyrinth ring	5070.1	Deflector	9400.2	Key
3210.2	Deep groove ball bearing	4230.2	Mechanical seal	5070.2	Deflector		
3300	Bearing housing	4330	Shaft box gland	5500	Washer		
3600.1	Bearing cover	4520		6430	Oil gauge		

CAL (Cast Iron) Selection Range Charts

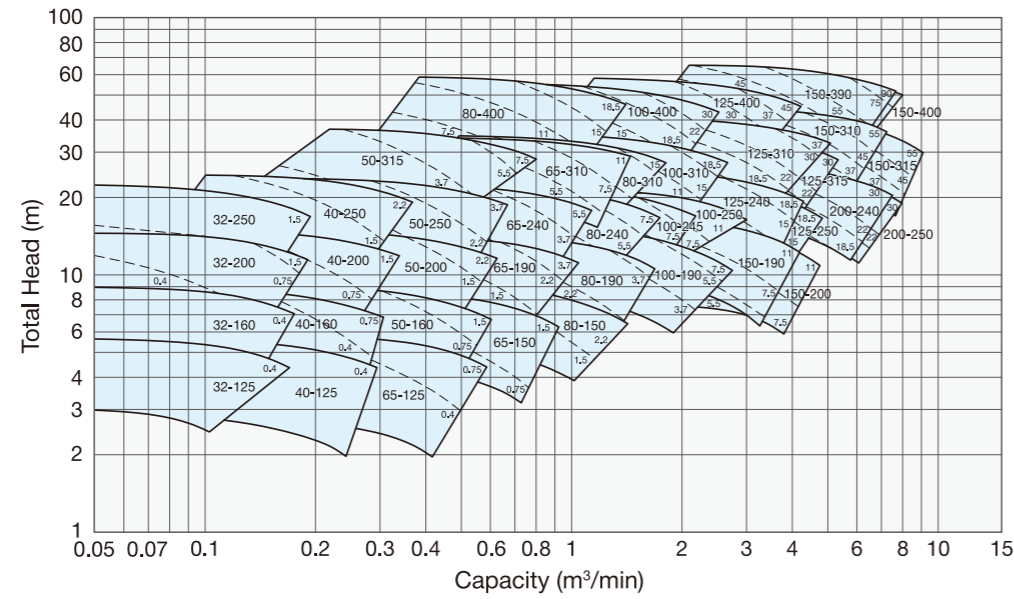
**50Hz-2P
(3000min⁻¹)**



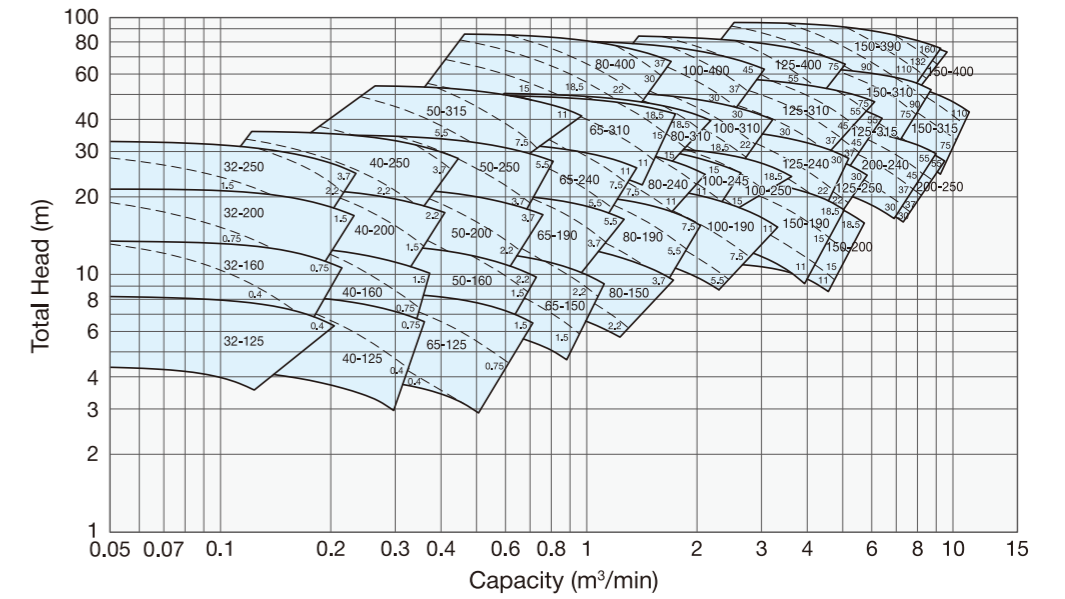
**60Hz-2P
(3600min⁻¹)**



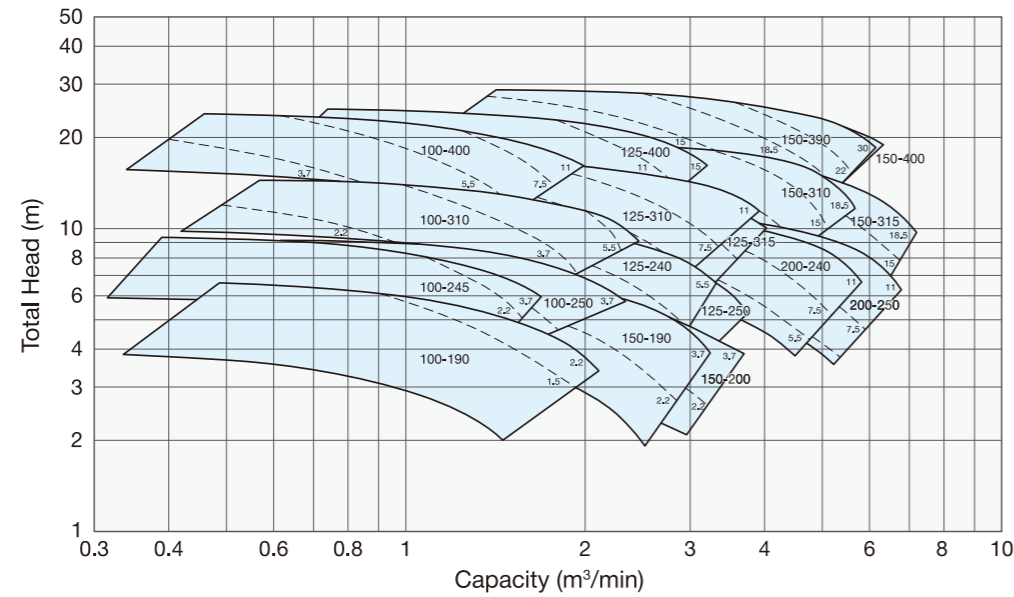
**50Hz-4P
(1500min⁻¹)**



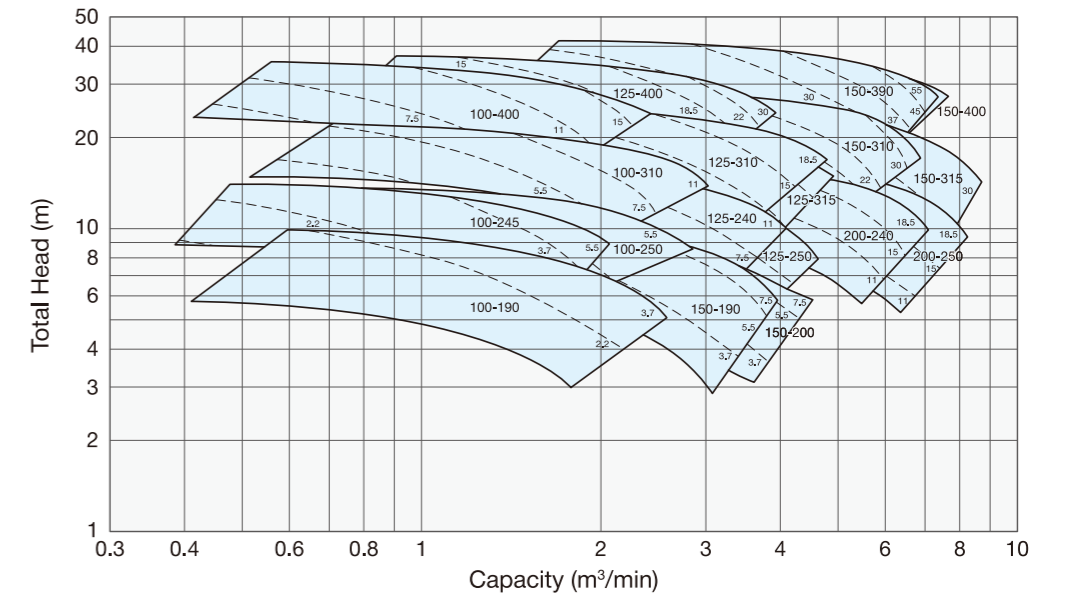
**60Hz-4P
(1800min⁻¹)**



**50Hz-6P
(1000min⁻¹)**

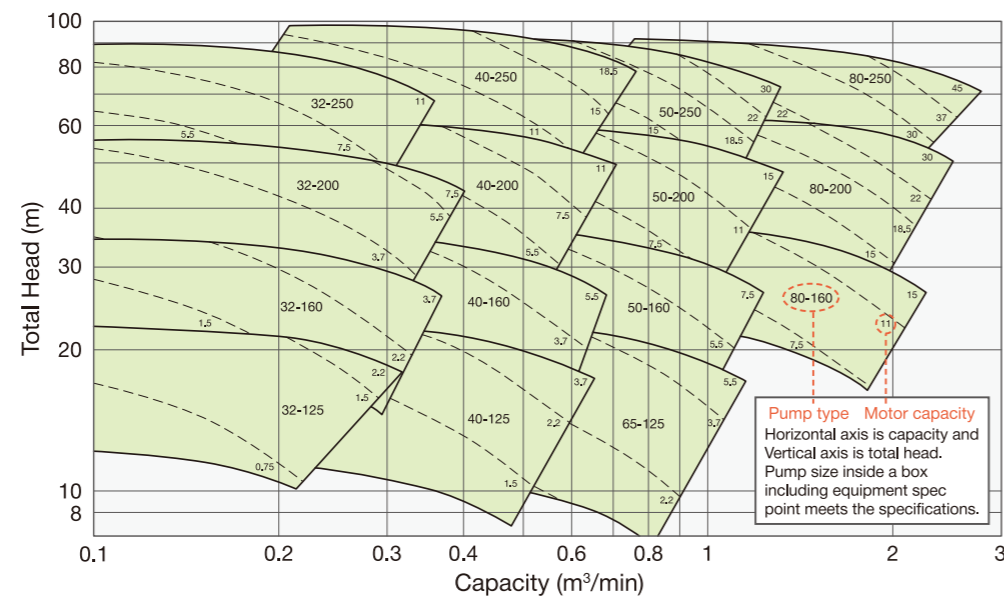


**60Hz-6P
(1200min⁻¹)**

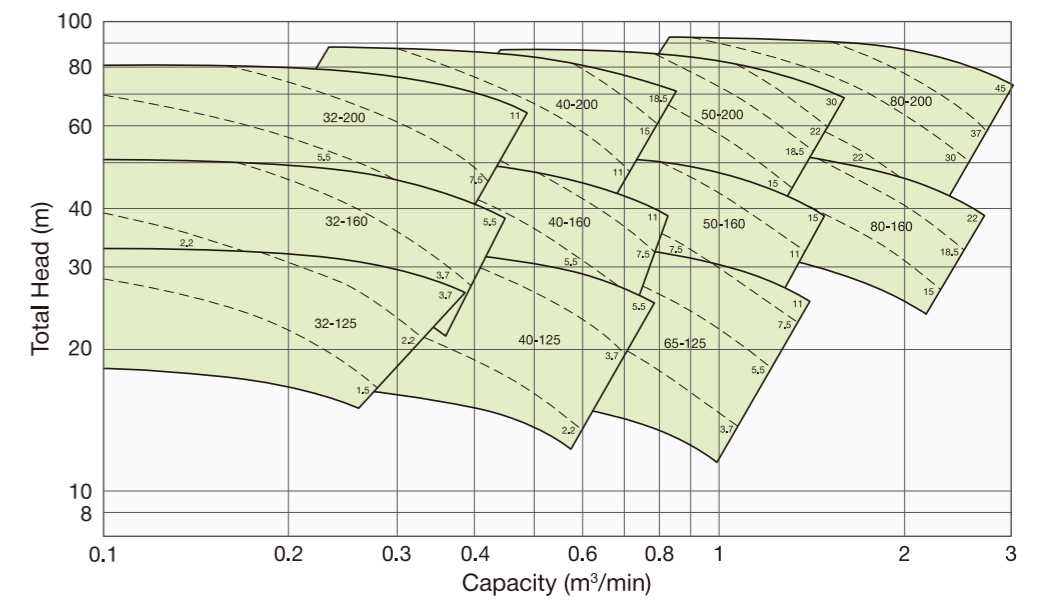


CAR (Stainless Steel) Selection Range Charts

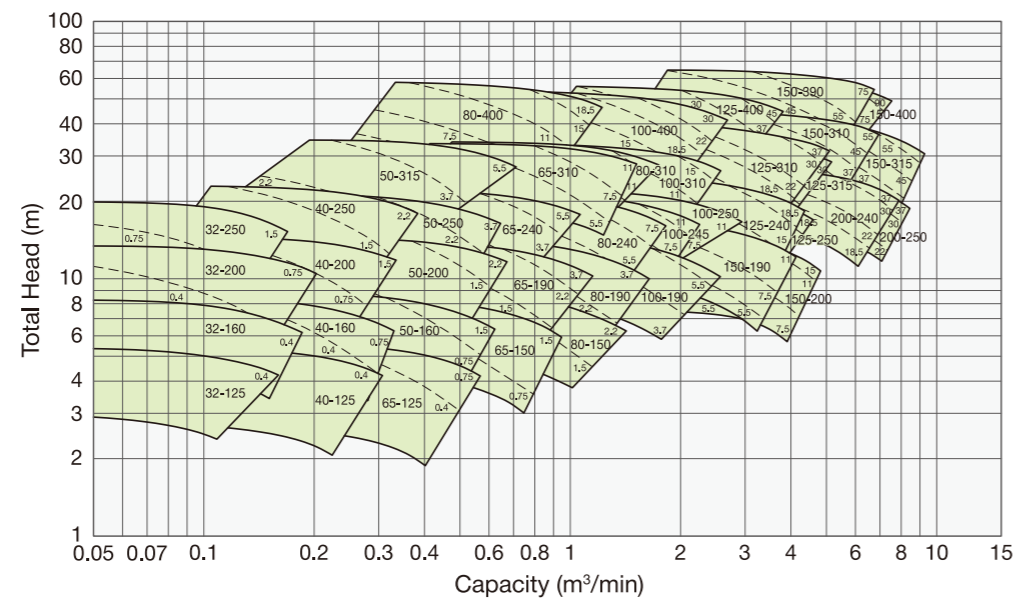
**50Hz-2P
(3000min⁻¹)**



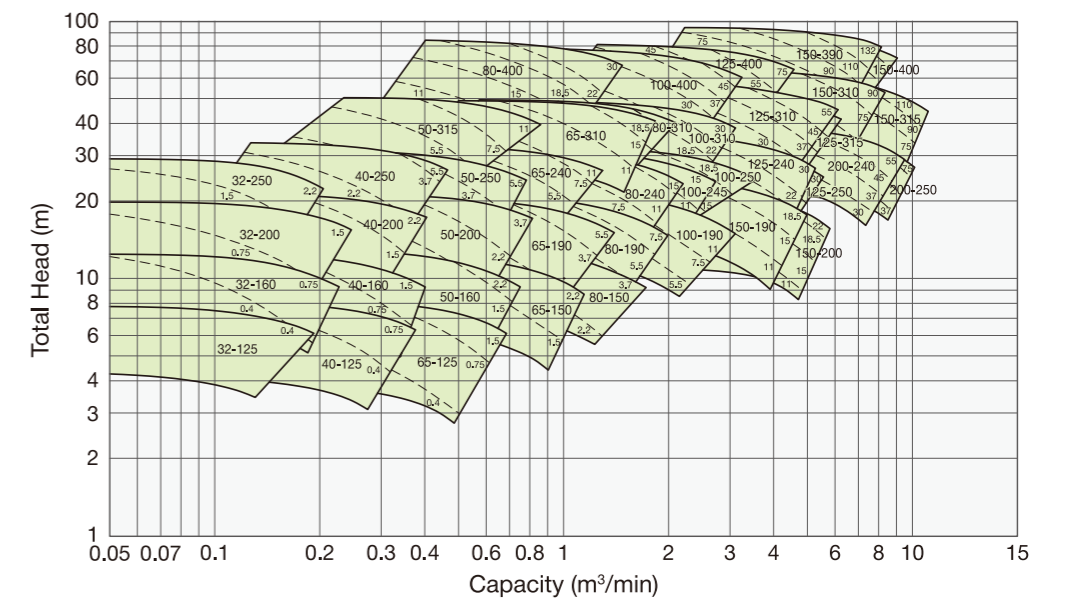
**60Hz-2P
(3600min⁻¹)**



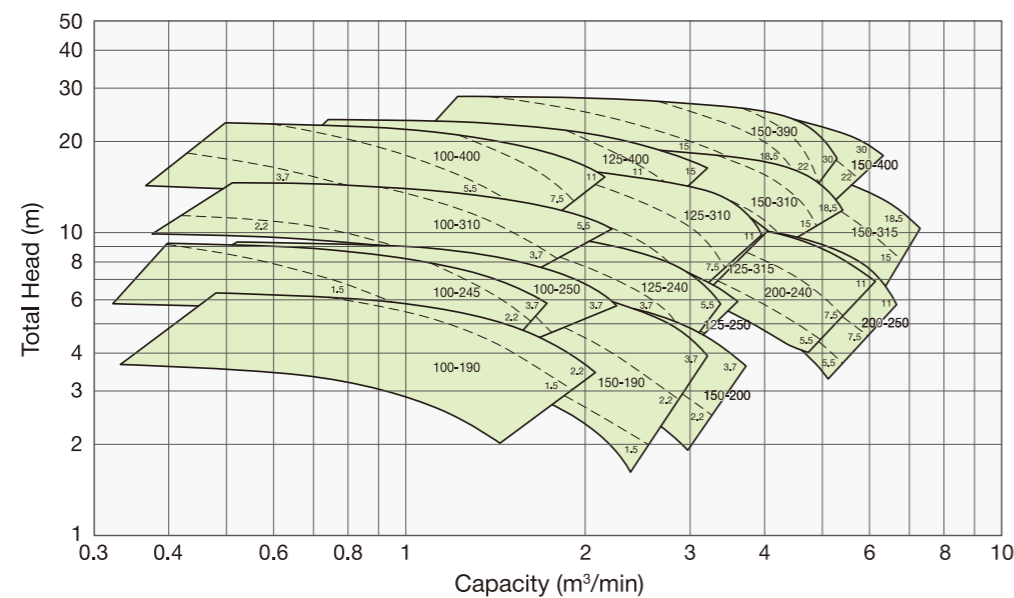
**50Hz-4P
(1500min⁻¹)**



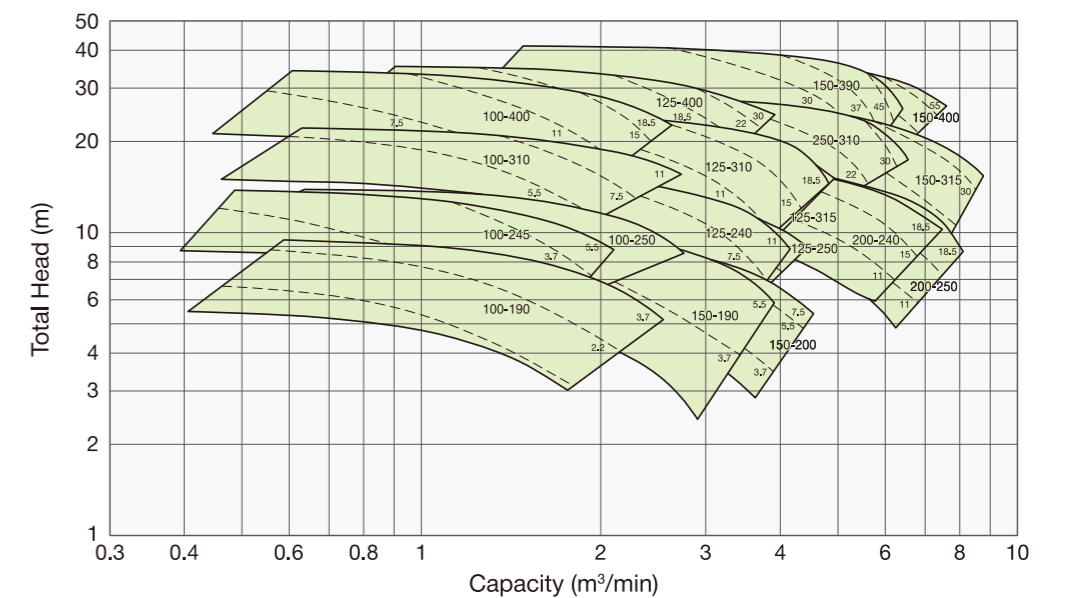
**60Hz-4P
(1800min⁻¹)**



**50Hz-6P
(1000min⁻¹)**



**60Hz-6P
(1200min⁻¹)**



Dimension Table

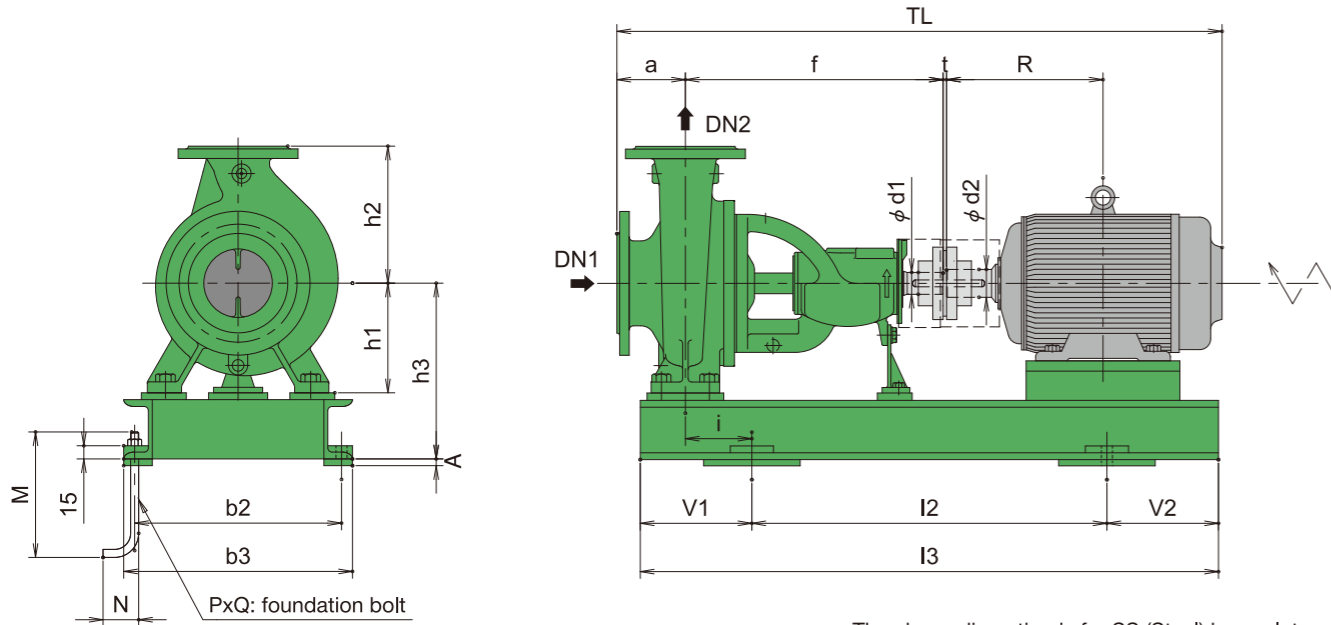
- Flange standard CAL: JIS10K RF / CAR: JIS10K RF
- Dimension in the table is based on totally enclosed fan-cooled motor.
Note: Motor size and frame depends on manufacturer selected.
- */** in the table indicate that motor frame is the same but shaft diameter (d2) is different.
- Base plate material FC: Cast Iron SS: Steel
Option: FC (Cast Iron) can be replaced with SS (Steel).



FC Base Plate



SS Base Plate



The above dimension is for SS (Steel) base plate.
FC (Cast Iron) base plate follows above.

Dimension Table for 2P Motor Drive

Pump Sizes	Pump								Motor			Base Plate				Foundation Dimensions								Coupling		Refer.														
	Bore		Dimension				Axle	Weight		Frame	Dimension		Material	b3	I3	A	Wt.	h3	i	b2	I2	M	N	P	Q		V1	V2	t	Wt.	TL									
	DN1	DN2	a	f	h1	h2	d1	Grade	Grade		R	d2																				L	R							
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm										
32-125 40-125	50 65	32 40	80 80	360 360	112 112	140 140	24 24	27 28	28 29	71M	120	14	FC	370	740	0	19.2	157	30	330	550	200	50	4	M12	95	95	3	1.1	681										
										80	140	19	FC	370	740	0	18.9	157	30	330	550	200	50	4	M12	95	95	3	1.1	725.5										
										80M	140	19	FC	370	740	0	18.9	157	30	330	550	200	50	4	M12	95	95	3	1.1	705										
										90S	156	24	FC	370	740	0	18.1	157	30	330	550	200	50	4	M12	95	95	3	1.1	750.5										
										90L	168.5	24	FC	370	740	0	18.1	157	30	330	550	200	50	4	M12	95	95	3	1.1	775.5										
										100L	193	28	FC	370	740	0	18.5	157	30	330	550	200	50	4	M12	95	95	3	1.6	809										
										112M	200	28	FC	370	740	0	15.7	157	30	330	550	200	50	4	M12	95	95	3	1.6	834.5										
32-160 40-160 65-125	50 65 80	32 40 65	80 80 100	360 360 360	132 132 132	160 160 180	24 24 24	28 30 31	30 31 33	132S	239	38	FC	370	820	0	21.9	177	20	330	650	200	50	4	M12	85	85	3	3.2	897										
										80	140	19	FC	370	740	0	19.7	177	30	330	550	200	50	4	M12	95	95	3	1.1	745.5										
										80M	140	19	FC	370	740	0	19.7	177	30	330	550	200	50	4	M12	95	95	3	1.1	725										
										90S	156	24	FC	370	740	0	19	177	30	330	550	200	50	4	M12	95	95	3	1.1	770.5										
										90L	168.5	24	FC	370	740	0	19	177	30	330	550	200	50	4	M12	95	95	3	1.1	795.5										
										100L	193	28	FC	370	740	0	19.1	177	30	330	550	200	50	4	M12	95	95	3	1.6	829										
										112M	200	28	FC	370	740	0	18.7	177	30	330	550	200	50	4	M12	95	95	3	1.6	854.5										
80-160	100	80	125	470	160	225	32	50	52	132S	239	38	FC	930	1000	0	33.9	225	0	480	740	200	50	4	M12	95	95	3	3.2	1052										
										160M	323	42	SS	470	1120	0	45	270	115	440	740	200	50	4	M12	190	190	3	5.4	1206										
										160L*	345	42	SS	470	1120	0	45	270	115	440	740	200	50	4	M12	190	190	3	6.7	1250										
										160L**	345	48	SS	470	1120	0	45	270	115	440	740	200	50	4	M12	190	190	3	9.0	1168.5										
										180MA	351.5	48	SS	470	1180	0	45	270	115	440	740	200	50	4	M12	190	250	3	9.0	1270										
										180M*	351.5	48	SS	470	1180	0	45	270	115	440	740	200	50	4	M12	190	250	3	9.0	1242										
										180M**	351.5	55	SS	470	1180	0	45	270	115	440	740	200	50	4	M12	190	250	4	13.9	1176										
32-250 40-250 50-250 80-200	50 65 80 100	32 40 50 80	100 100 100 125	470 470 470 470	180 180 180 250	225 225 225 32	32	54 55 57 60	56 58 59 62	180L	370.5	55	SS	470	1180	0	45	270	115	440	740	200	50	4	M12	190	250	4	13.9	1281										
										200LA	395.5	55	SS	530	1250	10	67	317	130	490	840	250	63	4	M16	205	205	4	13.9	1369										
										200L	395.5	55	SS	530	1250	10	67	317	130	490	840	250	63	4	M16	205	205	4	13.9	1349.5										
										225S	402	55	SS	530	1250	10	69	342	130	490	840	250	63	4	M16	205	205	4	13.9	1366										
										225MA	414.5	55	SS	530	1250	10	69	342	130	490	840	250	63	4	M16	205	205	4	13.9	1410										
										225M	414.5	55	SS	530	1250	10	69	342	130	490	840	250	63	4	M16	205	205	4	13.9	1463.5										
										250SA	463.5	60	SS	530	1250	10	76	370	130	490	840	250	63	4	M16	205	205	4	21.0	1481.5										
										250M	452.5	55	SS	530	1250	10	76	370	130	490	840	250	63	4	M16	205	205	4	13.9	1527										
										80-250	100	80	125	470	225	280	32	67	70	160M	323	42	SS	470	1120	0	52	317	100	440	740	200	50	4	M12	190	190	3	5.4	1206
																				160L*	345	42	SS	470	1120	0	52	317	100	440	740	200	50	4	M12	190	190	3	6.7	1250
																				160L**	345	48	SS	470	1120	0	52	317	100	440	740	200	50	4	M12	190	190	3	9.0	1168.5
																				180MA	351.5	48	SS	470	1180	0	55	317	100	440	740	200	50	4	M12	190	250	3	9.0	1270
																				180M*	351.5	48	SS	470	1180	0	55	317	100	440	740	200	50	4	M12	190	250	3	9.0	1242
																				180M**	351.5	55	SS	470	1180	0	55	317	100	440	740	200	50	4	M12	190	250	4	13.9	1176
180L	370.5	55	SS	470	1180	0	55	317	100											440	740	200	50	4	M12	190	250	4	13.9	1281										
200LA	395.5	55	SS	530	1250	10	74	342	115											490	840	250	63	4	M16	205	205	4	13.9	1369										
200L	395.5	55	SS	530	1250	10	74	342	115											490	840	250	63	4	M16	205	205	4	13.9	1349.5										
225S	402	55	SS	530	1250	10	65	342	115											490	840	250	63	4	M16	205	205	4	13.9	1366										
225MA	414.5	55	SS	530	1250	10	65	342	115											490	840	250	63	4	M16	205	205	4	13.9	1410										
225M	414.5	55	SS	530	1250	10	65	342	115											490	840	250	63	4	M16	205	205	4	13.9	1463.5										
250SA	463.5	60	SS	530	1250	10	74	370	115											490	840	250	63	4	M16	205	205	4	21.0	1481.5										
250M	452.5	55	SS	530	1250	10	74	370	115											490	840	250	63	4	M16	205	205	4	13.9	1527										

Dimension Table for 2P Motor Drive

Pump Sizes	Pump								Motor			Base Plate				Foundation Dimensions								Coupling		Refer.					
	Bore		Dimension				Axle	Weight		Frame	Dimension		Material	b3	I3	A	Wt.	h3	i	b2	I2	M	N	P	Q		V1	V2	t	Wt.	TL
	DN1	DN2	a	f	h1	h2	d1	Grade	Grade		R	d2																			
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	
32-200 40-200 50-160	50 65 80	32 40 50	80 80 100	360 360 360	160 160 160	180 180 180	24 24 24	36 37 32	38 39 33	90L	168.5	24	FC	370	740	0	20.1	205	30	330	550	200	50	4	M12	95	95	3	1.1	795.5	
										100L	193	28	FC	370	740	0	20.4	205	30	330	550	200	50	4	M12	95	95	3	1.6	829	
										112M	200	28	FC	370	740	0	20.1	205	30	330	550	200	50	4	M12	95	95	3	1.6	854.5	
										132S	239	38	FC	370	820	0	20	205	20	330	650	200	50	4	M12	85	85	3	3.2	917	
										160M	323	42	SS	430	1000	0	39	250	110	400	660	200	50	4	M12	170	170	3	5.4	1071	
										160L	345	42	SS	430	1000	0	39	250	110	400	660	200	50	4	M12	170	170	3	6.7	1115	
										180																					

Motor Parameter Comparison Table by Motor Type

2P Motor

Frame size	Center height	Shaft dia.	Totally enclosed fan-cooled (TU motor)		Drip-proof		Increased-safety explosion-proof		Flame-proof	
	R		d2	Output	Weight	Output	Weight	Output	Weight	Output
---	mm	mm	kW	kg	kW	kg	kW	kg	kW	kg
71M	120	14	0.4	7	-	-	0.4	7.2	0.4	17
80	140	19	-	-	-	-	-	-	-	-
80M	140	19	0.75	18	0.75	9	0.75	11.5	0.75	26
90S	156	24	-	-	-	-	-	-	-	-
90L	168.5	24	1.5	27.5	1.5	15.5	1.5	18.5	1.5	29
100L	193	28	2.2	28	2.2	16	2.2	29.5	-	42
112M	200	28	3.7	47	3.7	27	3.7	40	3.7	58
132S	239	38	5.5	73	5.5	34	5.5	60	5.5	74
160M	323	42	11	133	11	65	7.5	85	11	125
160L*	345	42	15	135	15	75	-	-	15	15
160L**	345	48	-	-	22	105	-	-	-	-
180M*	351.5	48	22	235	-	-	15	150	22	205
180MA	351.5	48	-	-	-	-	-	-	-	-
180M**	351.5	55	-	-	30	120	-	-	-	-
180L	370.5	55	30	248	37	190	-	-	-	-
200LA	395.5	55	-	-	-	-	-	-	-	-
200L	395.5	55	37	333	45	357	-	-	22	240
225S	402	55	55	467	-	-	30	310	37	390
225MA	414.5	55	-	-	-	-	-	-	-	-
225M	414.5	55	-	-	-	-	-	-	45	450
250SA	463.5	60	-	-	-	-	-	-	-	-
250M	462.5	55	-	-	-	-	45	550	55	590

4P Motor

Frame size	Center height	Shaft dia.	Totally enclosed fan-cooled (TU motor)		Drip-proof		Increased-safety explosion-proof		Flame-proof	
	R		d2	Output	Weight	Output	Weight	Output	Weight	Output
---	mm	mm	kW	kg	kW	kg	kW	kg	kW	kg
71M	120	14	0.4	8	-	-	0.4	9	0.4	17
80	140	19	-	-	-	-	-	-	-	-
80M	140	19	0.75	11	0.75	10.5	0.75	12	0.75	28
90L	168.5	24	1.5	20	1.5	16	1.5	20	1.5	30
100L	193	28	2.2	25	2.2	22	2.2	33	2.2	45
112M	200	28	3.7	37	3.7	30	3.7	41	3.7	58
132S	239	38	5.5	49	5.5	40	5.5	60	5.5	77
132M	258	38	7.5	60	7.5	51	7.5	74	7.5	95
160M	323	42	11	85	11	70	11	98	11	115
160L*	345	42	15	105	15	85	15	115	15	145
160L**	345	48	-	-	18.5	110	-	-	-	-
180MC	351.5	48	-	-	-	-	-	-	-	-
180M*	351.5	48	18.5	130	-	-	18.5	165	18.5	200
180M**	351.5	55	-	-	22	125	-	-	-	-
180LC	370.5	48	-	-	-	-	-	-	-	-
180L*	370.5	55	30	175	-	-	-	-	-	-
200LC	395.5	55	-	-	-	-	-	-	-	-
200L*	395.5	55	-	-	-	-	-	-	30	375
200L**	425.5	60	37	230	-	-	22	230	-	-
180L**	400.5	60	-	-	37	195	-	-	-	-
225SC	432	60	-	-	-	-	-	-	-	-
225S*	432	60	-	-	-	-	-	-	37	440
225S**	432	65	55	275	-	-	30	295	-	-
200M	406.5	65	-	-	55	240	-	-	-	-
225MC	444.5	60	-	-	-	-	-	-	-	-
225M	444.5	60	-	-	-	-	-	-	45	500
250SC	463.5	70	-	-	-	-	-	-	-	-
250M*	482.5	65	-	-	-	-	-	-	55	600
250M**	482.5	75	90	520	-	-	45	550	-	-
225S	432	75	-	-	75	350	-	-	-	-
225M	444.5	75	-	-	90	380	-	-	-	-
250S	463.5	75	75	470	-	-	-	-	-	-
250MC	482.5	70	-	-	-	-	-	-	-	-
280SB	544	80	-	-	-	-	-	-	-	-
280S*	514	75	-	-	-	-	-	-	75	780
280M*	539.5	75	-	-	-	-	-	-	90	920
280M**	569.5	85	132	800	-	-	75	800	-	-
250S	493.5	85	-	-	110	500	-	-	-	-
250M***	512.5	85	-	-	132	565	-	-	-	-
280S**	544	85	110	685	-	-	-	-	-	-
280MB	569.5	80	-	-	-	-	-	-	-	-
315SB	589	85	-	-	-	-	-	-	-	-

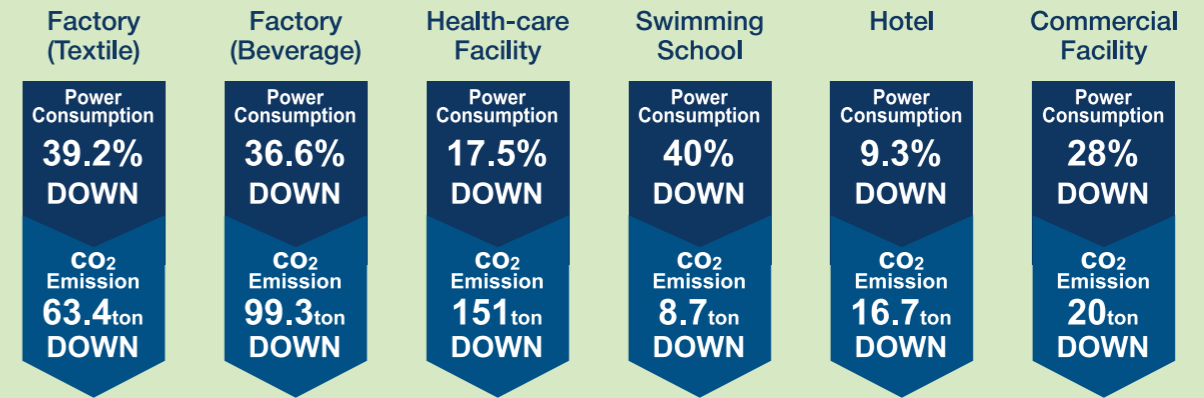
6P Motor

Frame size	Center height	Shaft dia.	Totally enclosed fan-cooled (TU motor)		Drip-proof		Increased-safety explosion-proof		Flame-proof	
	R		d2	Output	Weight	Output	Weight	Output	Weight	Output
---	mm	mm	kW	kg	kW	kg	kW	kg	kW	kg
100L	193	28	1.5	38	-	-	-	-	-	-
112M	200	28	2.2	46	-	-	-	-	-	-
132S	239	38	3.7	68	-	-	-	-	-	-
132M	258	38	5.5	79	-	-	-	-	-	-
160M	323	42	7.5	125	-	-	-	-	-	-
160L	345	42	11	140	-	-	-	-	-	-
180M	351.5	48	15	250	-	-	-	-	-	-
180L	370.5	55	18.5	225	-	-	-	-	-	-
200L	425.5	60	30	385	-	-	-	-	-	-
225S	432	65	45	500	-	-	-	-	-	-
250S	463.5	75	55	565	-	-	-	-	-	-
250M	482.5	75	75	640	-	-	-	-	-	-
280S	544	85	90	750	-	-	-	-	-	-
280M	569.5	85	110	725	-	-	-	-	-	-

Note: Totally enclosed fan-cooled motor is only available for TU motor, Torishima Ultra motor.

Potential Energy Saving with the Eco-Pump

The Eco-Pumps reduce power consumption by 10~30%!

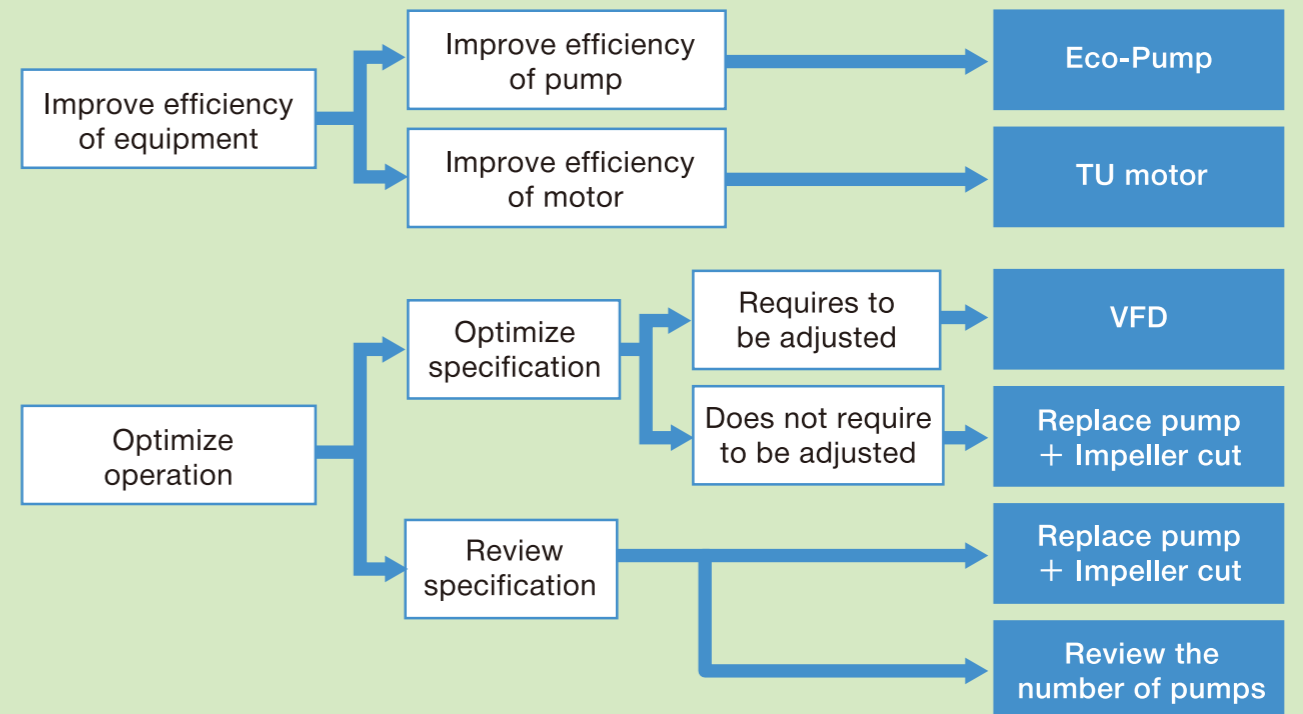


The above figures are a few examples of successful installation of the Eco-Pumps in various industries.

6 typical examples where big energy savings can be expected:

- Pump flow rate controlled by valve
- Pump operating at fixed speed
- Pump with high annual operating hours
- Pump with oversized motor
- Old pump
- Pump for new facility

We propose several solutions depending on your situation:



Would you like to try to select an Eco-Pump that meets your requirements, look at testimonials, or just learn more about the Eco-Pumps?
 Then please visit the Eco-Pump website:
www.torishima.co.jp/en/ecopump/index.html

