ShinMaywa

Prowinner Bangkok Co., Ltd.
Wastewater Solutions

LINE

WWW.PROWINNERBANGKOK.CO.TH

Centrifugal Pumps

(End Suction Direct coupled type) ACF Series

4-Pole motor



New Product
Centrifugal Pump

End Suction Centrifugal Pump
Direct coupled type, 4-pole motor

ShinMaywa

ACF Series

0.40–75kW

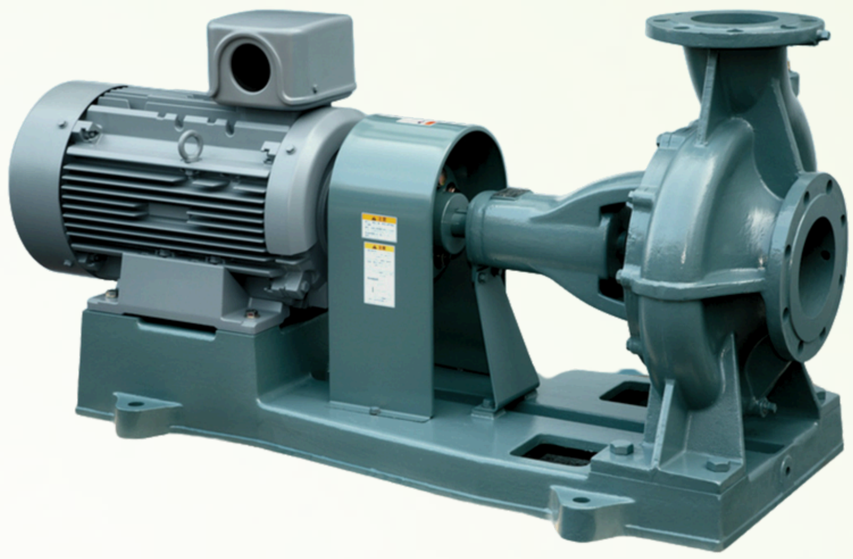
Suction size : 40–200 mm

Discharge size : 32–150 mm

- Total suction head（In case of 20℃）−6m but −5m for 100×80
- Allowable positive pressure

Features

- Energy-Saving efficient pump equipped with a Top Runner efficiency motor (equivalent to IE3).
- Low noise with 4-pole motor
- Ensures stable performance within the specified operating range, accommodating a wide capacity.
- Designed with a simple and back pull-out (B.P.O.) structure for easy disassembly and maintenance.
- Durable construction supports piping loads, providing steady installation through the upright discharge.
- Simple with rigid structure, developed from a rational design concept, enables cost reduction and reliable operation.



Applications

- General water distribution for buildings and apartment complexes
- Hot and cold water circulation systems
- Industrial process water supply
- Transmission and delivery of drinking water
- Water spraying and irrigation for fields and agricultural

* Please note that some of the devices in the photo may differ from actual devices in coating color, etc.

Description of model name

ACF 40 × 40 M 5 1.5 – H – e

① Model name
② Nominal suction diameter (40mm)
③ Nominal discharge diameter (40mm)
④ Frequency (50Hz)
⑤ Output (1.5kW)
⑥ Performance code None：Standard
H：According to customer specified point
⑦ Equipped with a Top Runner motor (equivalent to IE3)

Standard Specifications

Handling liquid	Kind of liquid	Fresh water
	Temperatute	0～80℃
Structure /Material	Impeller	CAC406 : 150 x 125G, 200 x 200 FC200 : 80 x 65 or less (excluding the below) SCD13： 125 x 100 or more (excluding the above)
	Shaft	SUS304
	Shaft seal	Gland packing /Mechanical seal
	Bearing	Sealed ball bearing
	Gland drain	Drain hole
	Casing drain	Plug
	Coupling guard	Standard
	Casing	FC200 or FCD450※1
Electric Motor	Type	Totally enclosed fan-cooled outdoor...0.75kW Totally enclosed fan-cooled indoor...1.5kW or more
	Efficiency	Standard efficiency (equivalent to IE1) ...0.4kW High efficiency (equivalent to IE3) ...0.75kW or more
	Starting method	Direct-on-Line start 7.5kW or less Star-delta start 11kW or more
	Phase/Voltage	3-phase/380V
	Synchronous rotation speed	1500min-1

Optional Specification

- Gland drain /Plug - Cock
- Sealed type coupling guard
- Shaft - SUS304
- Totally enclosed fan-cooled outdoor ...1.5kW or more
- Salt-resistant paint / Heavy duty salt-resistant paint

Standard accessories / Special accessories

- Commonbase 1
- Priming plug 1
- Coupling ..... 1 set
- Coupling guard 1

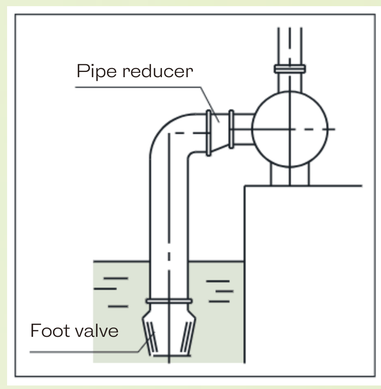
※ Standard accessories are included in the product components.

- Foot valve
- Suction cover
- Sluice valve, check valve
- Companion flange
  (packing, bolt and nut included)
- Pipe reducer
- Vibration isolator
- Pressure gauge, compound gauge
  (with cock and pipes)
- Vibration isolation joint
- Anchor bolt

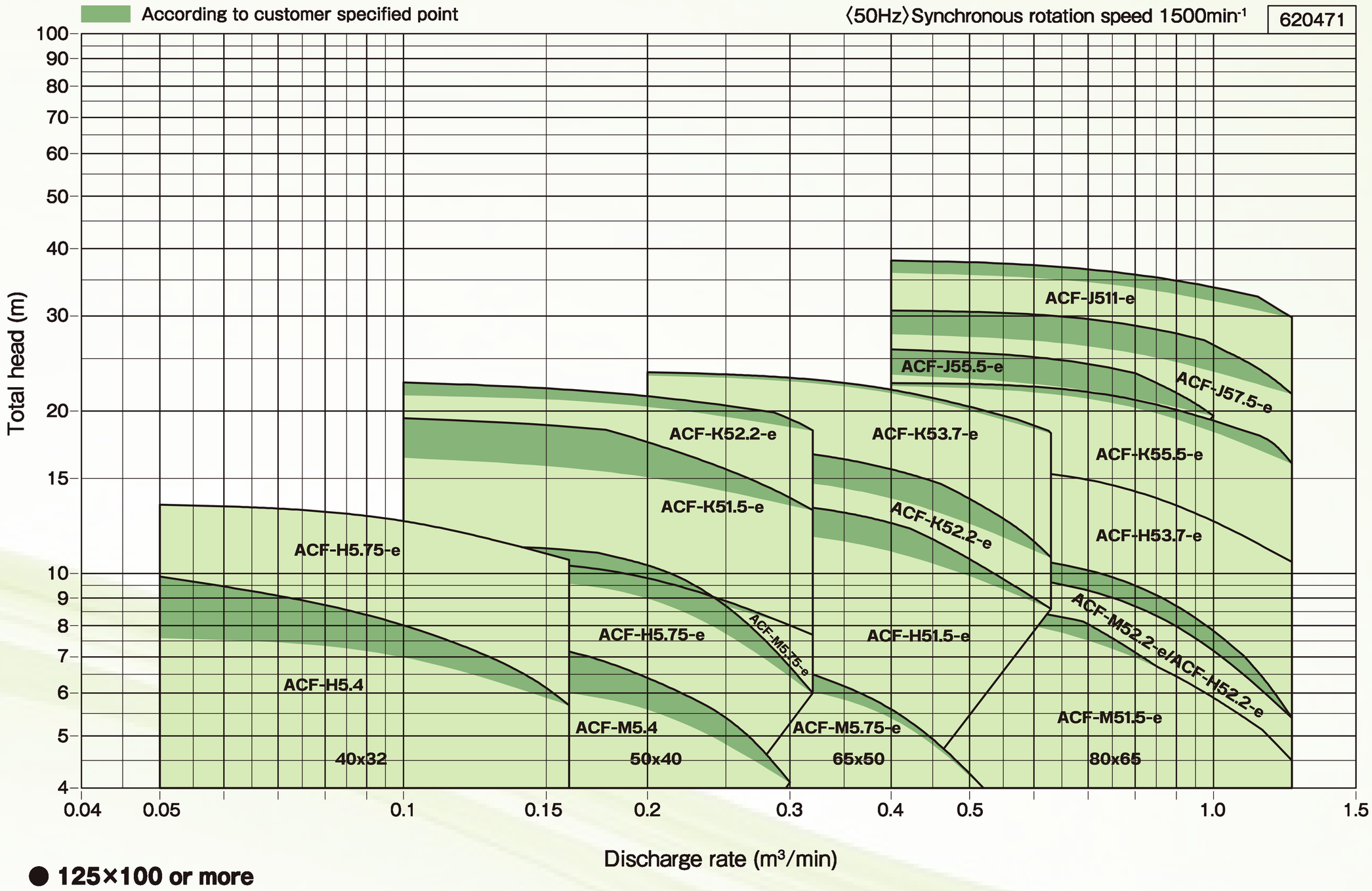
Foot valve / pipe reducer application table

- **Piping connection : JIS10K standard flange**

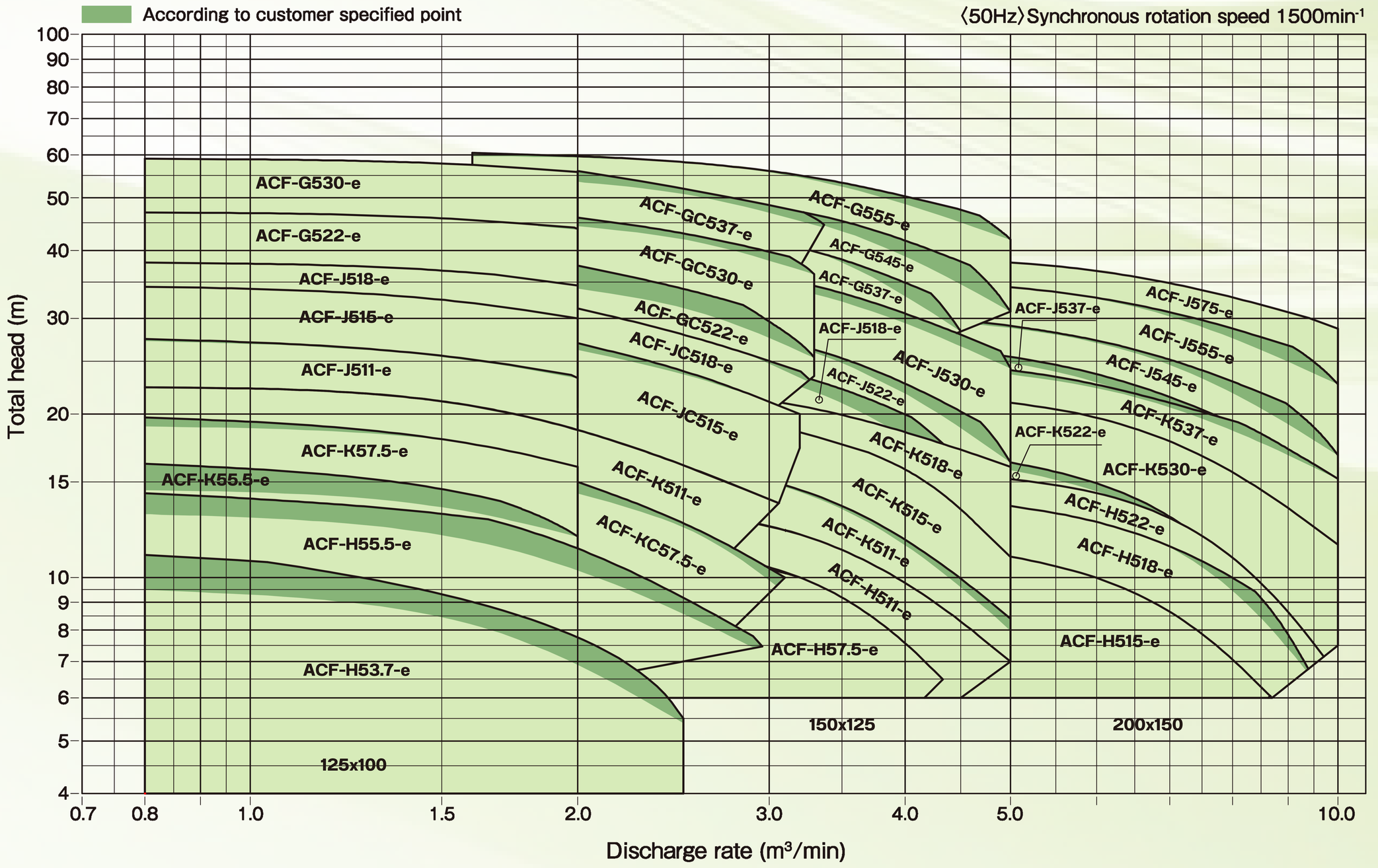
Nominal diameter mm		Foot valve nominal diameter mm	Pipe reducer
Suction s	Discharge d		
40	32	40	–
50	40	50	–
65	50	65	–
80	65	100	80x100
125	100	150	125x150
150	125	200	150x200
200	200	250	200x250
200	150	250	200x250



Performance Curves



● 125×100 or more



ACF

End Suction Centrifugal Pump
Direct coupled type, 4-pole motor

ShinMaywa

Standard Specifications

Nominal diameter mm		Type	Output kW	Specifications		
Suction	Discharge			Discharge rate m3/min	Total head m	Allowable positive pressure MPa
40	32	ACF-40×32H5.4	0.4	0.1	6.9	1.02
		ACF-40×32H5.4H	0.4	—	—	—
		ACF-40×32H5.75-e	0.75	0.1	12.4	0.96
50	40	ACF-50×40M5.4	0.4	0.2	5.6	1.04
		ACF-50×40M5.4H	0.4	—	—	—
		ACF-50×40M5.75-e	0.75	0.2	9.4	1.00
		ACF-50×40M5.75H-e	0.75	—	—	—
		ACF-50×40H5.75-e	0.75	0.2	9	1.00
		ACF-50×40H5.75H-e	0.75	—	—	—
		ACF-50×40K51.5-e	1.5	0.2	15.1	0.93
		ACF-50×40K51.5H-e	1.5	—	—	—
		ACF-50×40K52.2-e	2.2	0.2	20.3	0.88
		ACF-50×40K52.2H-e	2.2	—	—	—
65	50	ACF-65×50M5.75-e	0.75	0.4	5.4	1.03
		ACF-65×50M5.75H-e	0.75	—	—	—
		ACF-65×50H51.5-e	1.5	0.4	10.9	0.98
		ACF-65×50H51.5H-e	1.5	—	—	—
		ACF-65×50K52.2-e	2.2	0.4	13.7	0.94
		ACF-65×50K52.2H-e	2.2	—	—	—
		ACF-65×50K53.7-e	3.7	0.4	21.6	0.87
		ACF-65×50K53.7H-e	3.7	—	—	—
80	65	ACF-80×65M51.5-e	1.5	0.8	7	1.01
		ACF-80×65M51.5H-e	1.5	—	—	—
		ACF-80×65M52.2-e	2.2	0.8	8.6	0.99
		ACF-80×65H52.2-e	2.2	0.8	8.6	0.99
		ACF-80×65H52.2H-e	2.2	—	—	—
		ACF-80×65H53.7-e	3.7	0.8	14.1	0.94
		ACF-80×65K55.5-e	5.5	0.8	20.2	0.88
		ACF-80×65K55.5H-e	5.5	—	—	—
		ACF-80×65J55.5-e	5.5	0.8	21.1	0.86
		ACF-80×65J55.5H-e	5.5	—	—	—
		ACF-80×65J57.5-e	7.5	0.8	25.6	0.81
		ACF-80×65J57.5H-e	7.5	—	—	—
		ACF-80×65J511-e	11	0.8	33.9	0.73
		ACF-80×65J511H-e	11	—	—	—
125	100	ACF-125×100H53.7-e	3.7	1.6	8.2	1.28
		ACF-125×100H53.7H-e	3.7	—	—	—
		ACF-125×100H55.5-e	5.5	1.6	11.7	1.24
		ACF-125×100H55.5H-e	5.5	—	—	—
		ACF-125×100K55.5-e	5.5	1.6	13.2	1.23
		ACF-125×100K55.5H-e	5.5	—	—	—
		ACF-125×100K57.5-e	7.5	1.6	17.6	1.19
		ACF-125×100K57.5H-e	7.5	—	—	—
		ACF-125×100KC57.5-e	7.5	2.5	12.3	1.21
		ACF-125×100KC57.5H-e	7.5	—	—	—
		ACF-125×100K511-e	11	1.6	20.7	1.15
		ACF-125×100J511-e	11	1.6	25.1	1.11
		ACF-125×100J511H-e	11	—	—	—
		ACF-125×100J515-e	15	1.6	32	1.04
		ACF-125×100JC515-e	15	2.5	23.7	1.08
		ACF-125×100JC515H-e	15	—	—	—

Nominal diameter mm		Type	Output kW	Specifications		
Suction	Discharge			Discharge rate m3/min	Total head m	Allowable positive pressure MPa
125	100	ACF-125×100J518-e	18.5	1.6	36.3	1.00
		ACF-125×100JC518-e	18.5	2.5	28	1.03
		ACF-125×100JC518H-e	18.5	—	—	—
		ACF-125×100G522-e	22	1.6	45.4	0.91
		ACF-125×100G522H-e	22	—	—	—
		ACF-125×100GC522-e	22	2.5	31.4	1.00
		ACF-125×100GC522H-	22	—	—	—
		ACF-125×100G530-e	30	1.6	57.4	0.79
		ACF-125×100GC530-e	30	2.5	41.9	0.90
		ACF-125×100GC530H-	30	—	—	—
		ACF-125×100GC537-e	37	2.5	50.9	0.82
		ACF-125×100GC537H-	37	—	—	—
150	125	ACF-150×125H57.5-e	7.5	3.2	9.9	1.26
		ACF-150×125H57.5H-e	7.5	—	—	—
		ACF-150×125H511-e	11	3.2	11.9	1.24
		ACF-150×125K511-e	11	3.2	14.3	1.19
		ACF-150×125K511H-e	11	—	—	—
		ACF-150×125K515-e	15	3.2	17.8	1.18
		ACF-150×125K518-e	18.5	3.2	20.7	1.15
		ACF-150×125J518-e	18.5	3.2	22.5	1.11
		ACF-150×125J518H-e	18.5	—	—	—
		ACF-150×125J522-e	22	3.2	26.5	1.06
		ACF-150×125J522H-e	22	—	—	—
		ACF-150×125J530-e	30	3.2	33.8	1.00
		ACF-150×125J530H-e	22	—	—	—
		ACF-150×125G537-e	37	3.2	40.5	0.91
		ACF-150×125G537H-e	37	—	—	—
		ACF-150×125G545-e	45	3.2	45.7	0.88
		ACF-150×125G545H-e	45	—	—	—
		ACF-150×125G555-e	55	3.2	54.6	0.79
		ACF-150×125G555H-e	55	—	—	—
200	200	ACF-200×200H515-e	15	6.4	9.5	1.27
		ACF-200×200H518-e	18.5	6.4	12.2	1.25
		ACF-200×200H518H-e	18.5	—	—	—
		ACF-200×200H522-e	22	6.4	13.7	1.24
200	150	ACF-200×150K522-e	22	6.4	13.8	1.21
		ACF-200×150K522H-e	22	—	—	—
		ACF-200×150K530-e	30	6.4	19	1.16
		ACF-200×150K537-e	37	6.4	21.6	1.11
		ACF-200×150K537H-e	37	—	—	—
		ACF-200×150J537-e	37	6.4	22.1	1.12
		ACF-200×150J537H-e	37	—	—	—
		ACF-200×150J545-e	45	6.4	26.2	1.08
		ACF-200×150J545H-e	45	—	—	—
		ACF-200×150J555-e	55	6.4	31.8	1.03
		ACF-200×150J555H-e	55	—	—	—
		ACF-200×150J575-e	75	6.4	36	0.93

Pump Dimension

Flange dimensions: JIS 10K standard type or equivalent

Note) Overall length dimensions, approximate mass and terminal box position may vary depending on the motor manufacturer.

(Unit: mm)

Nominal diameter		Type	Output kW	Pump / Motor								Common base									Foundation bolt			Approx. mass kg
Suction Ds	Discharge Dd			A	B	D	E	F	H	L	Q	BD	BJ	BL	BM	BN	BP	BR	BX	BY	FB	FD	FL	
40	32	ACF-40×32H5.4(H)	0.4	80	360	210	180	45	390	686	3	13	25	615	420	105	290	230	325	265	45	M10	200	57
		ACF-40×32H5.75-e	0.75	80	360	215	180	45	395	705	3	15	30	640	420	105	320	240	365	285	55	M12	250	62
50	40	ACF-50×40M5.4(H)	0.4	80	360	182	160	45	342	686	3	13	25	615	420	105	290	210	325	245	45	M10	200	50
		ACF-50×40M5.75(H)-e	0.75	80	360	182	160	45	342	705	3	13	25	640	420	105	290	240	325	275	45	M10	200	57
		ACF-50×40H5.75(H)-e	0.75	100	360	215	180	45	395	725	3	15	30	640	420	105	320	240	365	285	55	M12	250	66
		ACF-50×40K51.5(H)-e	1.5	100	360	235	225	40	460	775	3	15	30	700	480	115	375	245	420	290	55	M12	250	85
		ACF-50×40K52.2(H)-e	2.2	100	360	235	225	40	460	829	3	16	30	740	480	115	375	275	420	320	55	M12	250	96
65	50	ACF-65×50M5.75(H)-e	0.75	100	360	215	180	45	395	725	3	15	30	640	420	105	320	240	365	285	55	M12	250	64
		ACF-65×50H51.5(H)-e	1.5	100	360	215	200	40	415	775	3	15	30	700	480	115	335	245	380	290	55	M12	250	82
		ACF-65×50K52.2(H)-e	2.2	100	360	235	225	40	460	829	3	16	30	740	480	115	375	275	420	320	55	M12	250	111
		ACF-65×50K53.7(H)-e	3.7	100	360	235	225	55	460	844	3	15	30	740	540	130	375	295	420	340	55	M12	250	126
80	65	ACF-80×65M51.5(H)-e	1.5	100	360	215	200	40	415	775	3	15	30	700	480	115	335	245	380	290	55	M12	250	80
		ACF-80×65M52.2-e	2.2	100	360	215	200	40	415	829	3	16	30	740	480	115	335	265	380	310	55	M12	250	90
		ACF-80×65H52.2(H)-e	2.2	100	360	235	225	40	460	829	3	16	30	740	480	115	375	275	420	320	55	M12	250	115
		ACF-80×65H53.7-e	3.7	100	360	235	225	55	460	844	3	15	30	740	540	130	375	295	420	340	55	M12	250	129
		ACF-80×65K55.5(H)-e	5.5	100	470	270	250	80	520	1024	3	20	40	950	660	170	430	340	485	395	70	M16	315	172
		ACF-80×65J55.5(H)-e	5.5	125	470	320	280	80	600	1049	3	20	40	950	660	170	470	340	525	395	70	M16	315	208
		ACF-80×65J57.5(H)-e	7.5	125	470	320	280	80	600	1087	3	20	40	950	660	170	470	340	525	395	70	M16	315	217
		ACF-80×65J511(H)-e	11	125	470	320	280	100	600	1222	3	20	40	1080	740	190	470	390	525	445	70	M16	315	305
125	100	ACF-125×100H53.7(H)-e	3.7	125	470	270	280	60	550	979	3	20	40	870	600	150	430	310	485	365	70	M16	315	146
		ACF-125×100H55.5(H)-e	5.5	125	470	270	280	80	550	1049	3	20	40	950	660	170	430	340	485	395	70	M16	315	172
		ACF-125×100K55.5(H)-e	5.5	140	470	320	280	80	600	1064	3	20	40	950	660	170	470	340	525	395	70	M16	315	209
		ACF-125×100K57.5(H)-e	7.5	140	470	320	280	80	600	1102	3	20	40	950	660	170	470	340	525	395	70	M16	315	218
		ACF-125×100KC57.5(H)-	7.5	140	470	320	280	80	600	1102	3	20	40	950	660	170	470	340	525	395	70	M16	315	217
		ACF-125×100K511-e	11	140	470	320	280	100	600	1237	3	20	40	1080	740	190	470	390	525	445	70	M16	315	304
		ACF-125×100J511(H)-e	11	140	470	320	315	100	635	1237	3	20	40	1080	740	190	470	390	525	445	70	M16	315	300
		ACF-125×100J515(H)-e	15	140	470	320	315	100	635	1267	3	20	40	1080	740	190	470	390	525	445	70	M16	315	324
		ACF-125×100JC515(H)-e	15	140	470	320	315	100	635	1267	3	20	40	1080	740	190	470	390	525	445	70	M16	315	323
		ACF-125×100J518-e	18.5	140	470	330	315	115	645	1286	3	25	50	1120	840	205	480	440	550	510	90	M20	400	354
		ACF-125×100JC518(H)-e	18.5	140	470	330	315	115	645	1286	3	25	50	1120	840	205	480	440	550	510	90	M20	400	354
		ACF-125×100G522(H)-e	22	140	530	360	355	95	715	1346	3	25	50	1200	840	205	580	440	650	510	90	M20	400	424
		ACF-125×100GC522(H)-e	22	140	530	360	355	95	715	1346	3	25	50	1200	840	205	580	440	650	510	90	M20	400	424
		ACF-125×100G530-e	30	140	530	360	355	95	715	1385	4	25	50	1200	840	205	580	440	650	510	90	M20	400	458
		ACF-125×100GC530(H)-e	30	140	530	360	355	95	715	1385	4	25	50	1200	840	205	580	440	650	510	90	M20	400	458
		ACF-125×100GC537(H)-e	37	140	530	360	355	120	715	1546	4	25	50	1280	940	230	580	490	650	560	90	M20	400	526
150	125	ACF-150×125H57.5(H)-e	7.5	140	470	320	315	80	635	1102	3	20	40	950	660	170	470	340	525	395	70	M16	315	228
		ACF-150×125H511-e	11	140	470	320	315	100	635	1257	3	20	40	1080	740	190	470	390	525	445	70	M16	315	289
		ACF-150×125K511(H)-e	11	140	470	320	355	100	675	1257	3	20	40	1080	740	190	470	390	525	445	70	M16	315	286
		ACF-150×125K515-e	15	140	470	320	355	100	675	1267	3	20	40	1080	740	190	470	390	525	445	70	M16	315	299
		ACF-150×125K518-e	18.5	140	470	330	355	115	685	1286	3	25	50	1120	840	205	480	440	550	510	90	M20	400	360
		ACF-150×125J518(H)-e	18.5	140	530	360	355	95	715	1346	3	25	50	1200	840	205	580	440	650	510	90	M20	400	461
		ACF-150×125J522(H)-e	22	140	530	360	355	95	715	1346	3	25	50	1200	840	205	580	440	650	510	90	M20	400	470
		ACF-150×125J530(H)-e	30	140	530	360	355	95	715	1385	4	25	50	1200	840	205	580	440	650	510	90	M20	400	504
		ACF-150×125G537(H)-e	37	140	530	395	400	95	795	1546	4	25	50	1280	840	205	580	490	650	560	90	M20	400	617
		ACF-150×125G545(H)-e	45	140	530	395	400	95	795	1546	4	25	50	1280	840	205	580	490	650	560	90	M20	400	702
		ACF-150×125G555(H)-e	55	140	530	395	400	120	795	1555	4	25	50	1270	940	230	580	530	650	600	90	M20	400	804
200	200	ACF-200×200H515-e	15	180	530	360	375	95	735	1387	3	25	50	1170	840	205	580	410	650	480	90	M20	400	388
		ACF-200×200H518(H)-e	18.5	180	530	360	375	95	735	1386	3	25	50	1200	840	205	580	440	650	510	90	M20	400	475
		ACF-200×200H522-e	22	180	530	360	375	95	735	1386	3	25	50	1200	840	205	580	440	650	510	90	M20	400	484
200	150	ACF-200×150K522(H)-e	22	160	530	360	375	95	735	1366	3	25	50	1200	840	205	580	440	650	510	90	M20	400	475
		ACF-200×150K530(H)-e	30	160	530	360	375	95	735	1405	4	25	50	1200	840	205	580	440	650	510	90	M20	400	509
		ACF-200×150K537(H)-e	37	160	530	360	375	120	735	1566	4	25	50	1280	940	230	580	490	650	560	90	M20	400	623
		ACF-200×150J537(H)-e	37	160	670	430	400	120	830	1706	4	25	50	1425	940	235	640	490	710	560	90	M20	400	690
		ACF-200×150J545(H)-e	45	160	670	430	400	120	830	1706	4	25	50	1425	940	235	640	490	710	560	90	M20	400	775
		ACF-200×150J555(H)-e	55	160	670	430	400	160	830	1715	4	25	50	1450	1060	275	640	530	710	600	90	M20	400	885

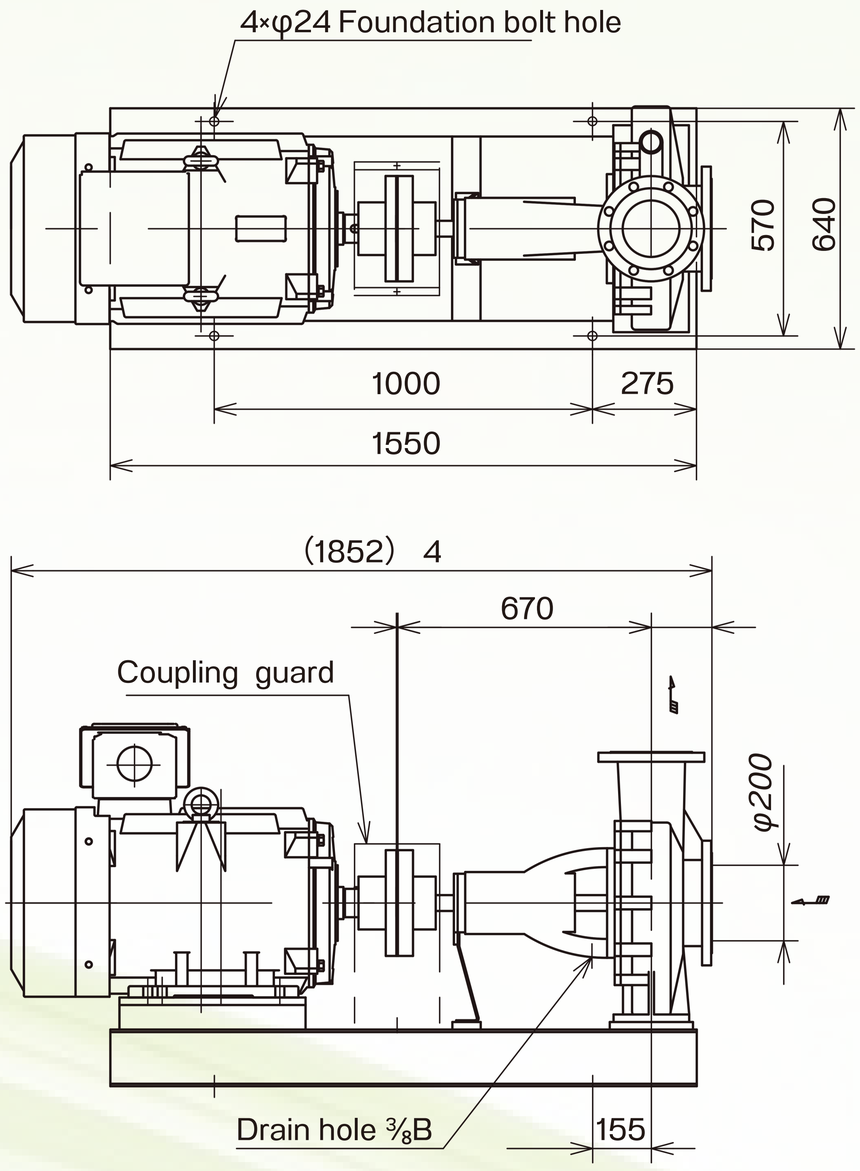
*Mounting dimensions are compatible with ACF model (product equipped with totally enclosed fan-cooled IE1 motor). Also the motor frame number is the same. Therefore, replacement with a Top Runner efficiency (equivalent to IE3) motor is possible. However, please keep the following point in mind. The number of revolutions will increase because of the characteristics of the motor, which may cause the flow rate to exceed the rated current value. Please adjust the flow rate to use the motor within the rated current value.

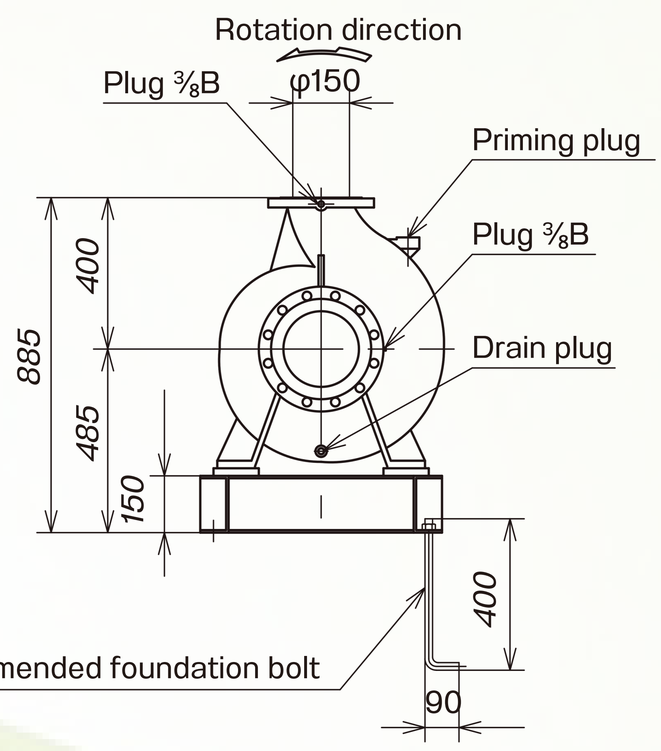
*For products equipped with a drip-proof protection type motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

Assembly drawing Dimension

●ACF-200×150J575-e

Flange dimensions: JIS 10K standard type or equivalent



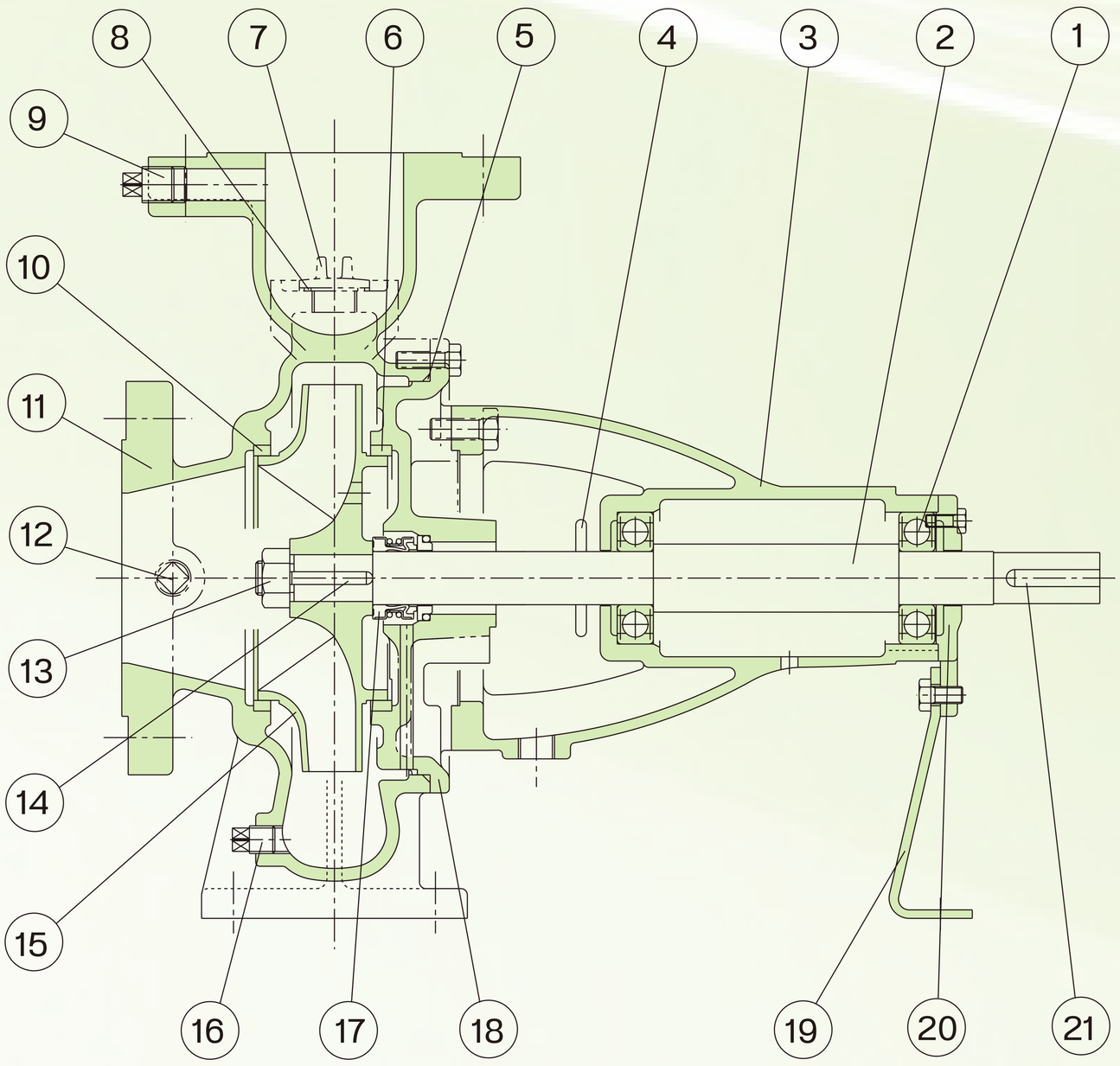


(Unit: mm)

Approx mass: 1000kg

Note) Total length dimension and approximate mass may vary slightly depending on the motor manufacturer.
*Mounting dimensions are compatible with ACF model (product equipped with totally enclosed fan-cooled IE1 motor). Also the motor frame number is the same. Therefore, replacement with a Top Runner efficiency (equivalent to IE3) motor is possible. However, please keep the following point in mind. The number of revolutions will increase because of the characteristics of the motor, which may cause the flow rate to exceed the rated current value. Please adjust the flow rate to use the motor within the rated current value.
*For products equipped with a drip-proof protection type motor, there are some types which also require a common base because the frame No. may be different when only the motor is replaced.

Sectional View

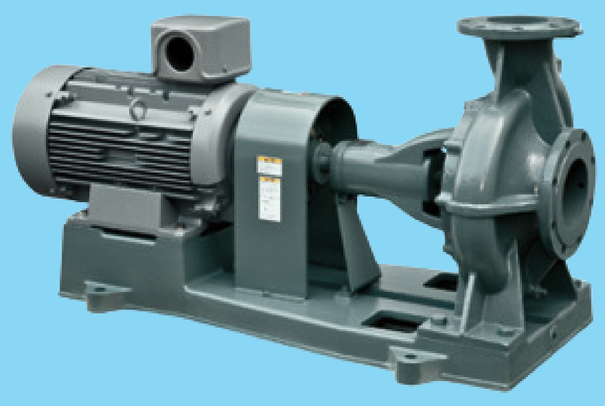


No.	Part name	Material
1	Ball bearing	SUJ2
2	Main shaft	SUS403
3	Bearing case	FC200
4	Deflector	CR
5	O-ring	NBR
6	Liner ring	CAC406
7	Priming plug	C3771B
8	O-ring	NBR
9	Plug A	SWCH
10	Liner ring	CAC406
11	Casing	FC200/FCD450
12	Plug B	SWCH
13	Impeller nut	SUS304
14	Impeller key	SUS304
15	Impeller	FC200/CAC406/SCS13
16	Drain plug	SWCH
17	Mechanical	SiC vs Carbon
18	Casing cover	FC200
19	Mounting leg	SS400
20	Bearing cover	FC200
21	Coupling key	S45C

* Note) This is a representative example. For details, see the sectional drawing of each model.

ShinMaywa Centrifugal Pump

AC (2-poles)
ACF (4-poles)



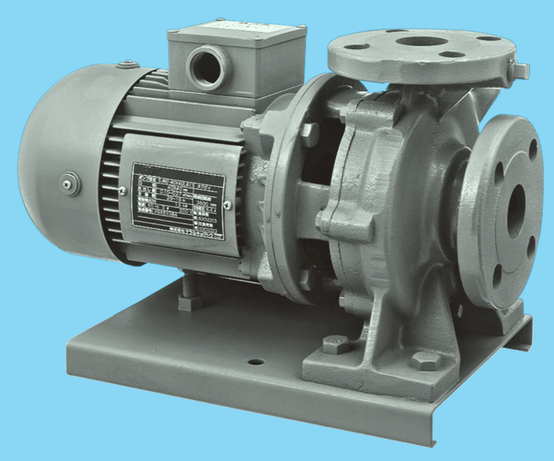
JIS standard(JISB8313) by referring internal standard ISO2858

End Suction
Direct coupled pump

Specification data		
Model	AC	ACF
Rate output (kW)	0.75-45	0.4-75
Suction Diameter (mm)	32-100 (Ø)	40-200 (Ø)
Discharge Diameter (mm)	32-80 (Ø)	32-150 (Ø)

※ Total suction head (20℃) : -6m , -5m for 100x80
※ Liquid Temperature : 0-80℃

AD



End Suction
Closed coupled pump

Specification data	
Rate output (kW)	0.4-7.5
Suction Diameter (mm)	32-80 (Ø)
Discharge Diameter (mm)	32-65 (Ø)

※ Total suction head (20℃) : -6m
※ Liquid Temperature : 0-80℃

ALD



In-Line
Closed coupled pump

Specification data	
Rate output (kW)	0.25-7.5
Diameter (mm)	25-100 (Ø)

※ Total suction head (20℃) : -6m
※ Liquid Temperature : 0-80℃

Other ShinMaywa Submersible Pump & Watertreatment equipment

Submersible Pump / Dry Pit pump



CNWX CNMJ-MT CN-MT NORUS CNT/CWT

Axial Flow Pump / Gate Pump



SD/SA SAH/SAH-L

Float Pump



FP

Dewatering Pump



BTR/BTR-S BUCF BU/BUK SN

Blower / Turbo Blower



ARH ARS RB-H TURBOMAX

Submersible Mixer



SM/SME SMM SML

Screen



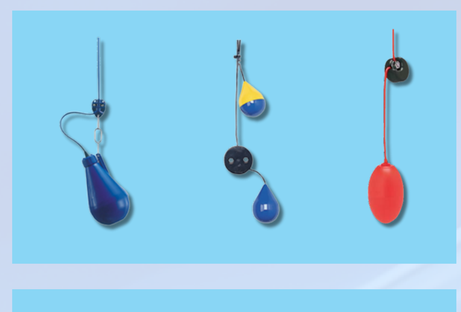
BS VS S SB

Aerator/Ejector



JSA SJ JA JB

Float Switch



LC MS FV

THAI SHINMAYWA CO., LTD (FLUID PLANT)
199, 199/1 MOO 12, SOI PETCHAKASEM 120
PETCHAKASEM RD, OM-NOI, KRATHUMBAN, SAMUTSAKON 74130

0-2420-0089, 098-8316514
062-2789566, 061-1616677

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ISO 9001(No.17Q22162)/ ISO 14001(No.22E22162)