ShinMaywa

Prowinner Bangkok Co., Ltd.
Wastewater Solutions

LINE

WWW.PROWINNERBANGKOK.CO.TH

Centrifugal Pumps

(End Suction Direct coupled type) AC Series

2-Pole motor



New Product
Centrifugal Pump

End Suction Centrifugal Pump
Direct coupled type, 2-pole motor

ShinMaywa

AC Series

0.75–45kW

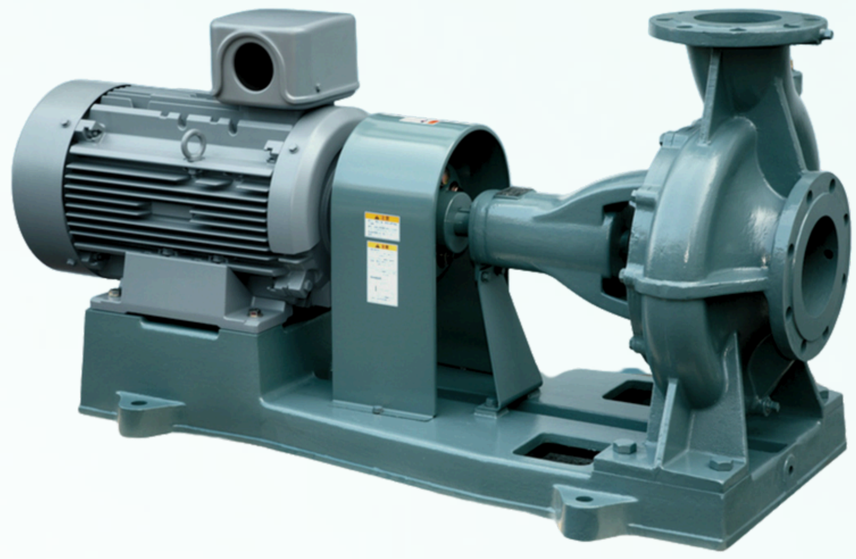
Suction size : 32–100 mm

Discharge size : 32–80 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).
- Compact and lightweight design with a 2-pole motor for space-saving installation.
- Easy to install even in confined spaces.
- Back pull-out (B.P.O.) structure enables quick disassembly and convenient maintenance.
- Durable construction designed to withstand piping loads, with stable installation ensured by upright discharge.



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

Description of model name

AC 40 × 40 M 5 1.5 – H – e

① ② ③ ④ ⑤ ⑥ ⑦

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	Closed / CAC406（excluding the below）FC200：65×50M, 80×65
	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	Top Runner efficiency (equivalent to IE3)
	Starting method	Direct-on-Line start 7.5kW or less Star-delta start 11kW or more
	Phase/Voltage	3-phase/380V
	Synchronous rotation speed	3000min-1

Standard accessories / Special accessories

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

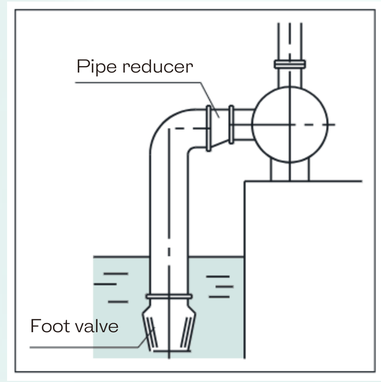
※ Standard accessories are included in the product components.

- 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**

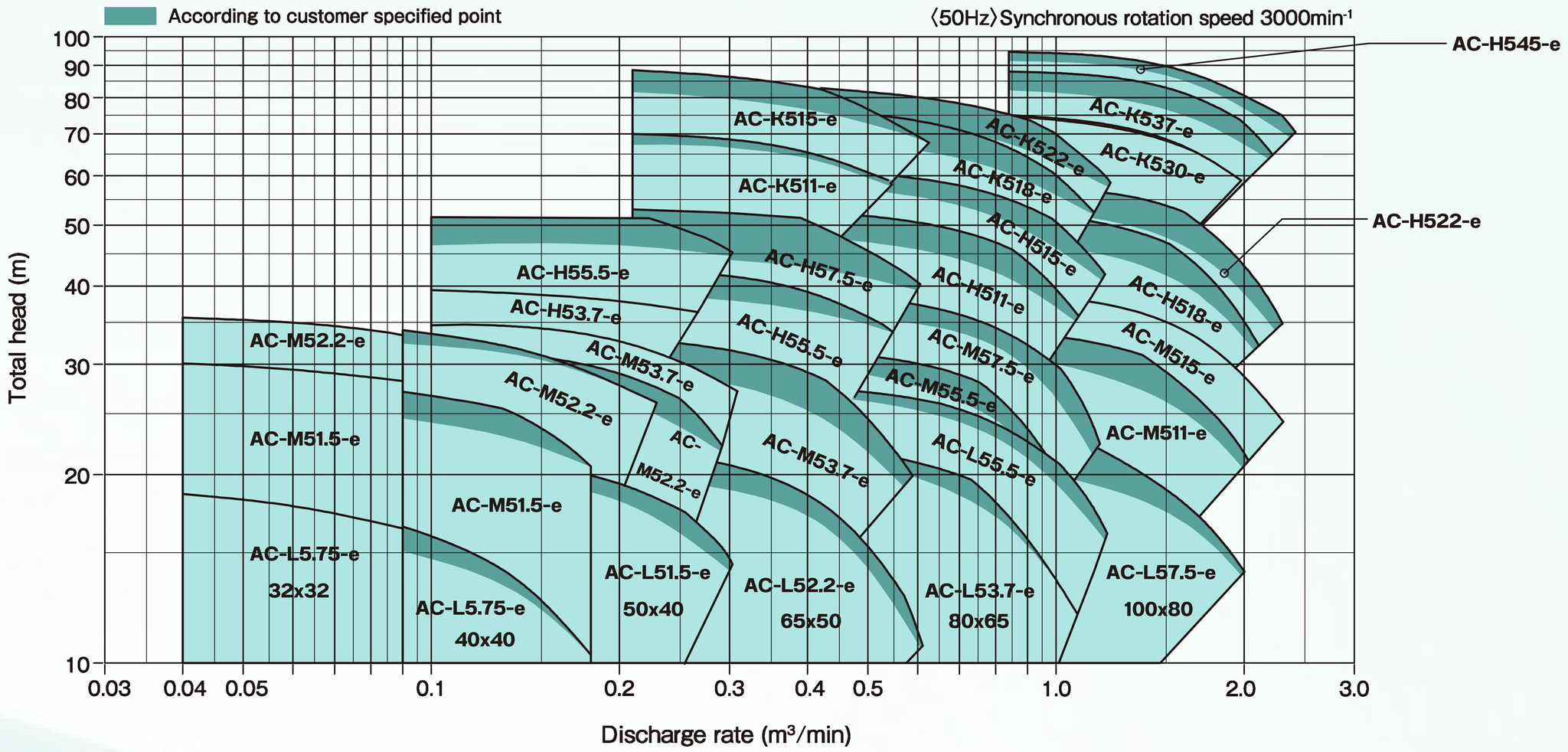
Nominal diameter mm		Foot valve nominal diameter mm	Pipe reducer
Suction s	Discharge d		
32	32	32	–
40	40	40	–
50	40	50	–
65	50	65	–
80	65	100	80×100
100	80	125	100×125



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

Performance Curves

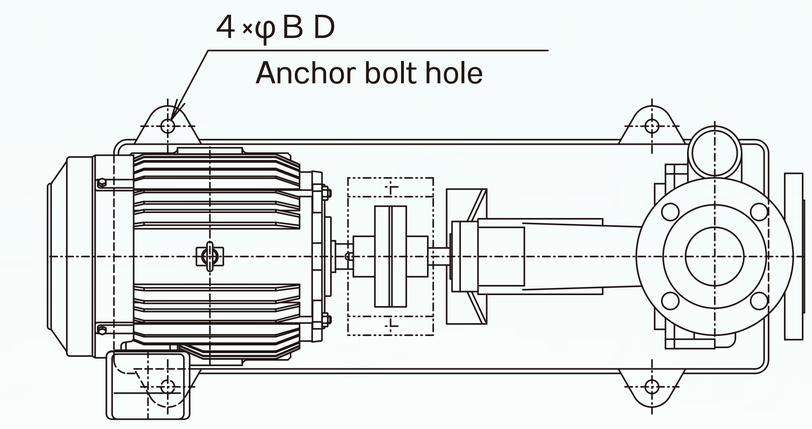


Standard Specifications

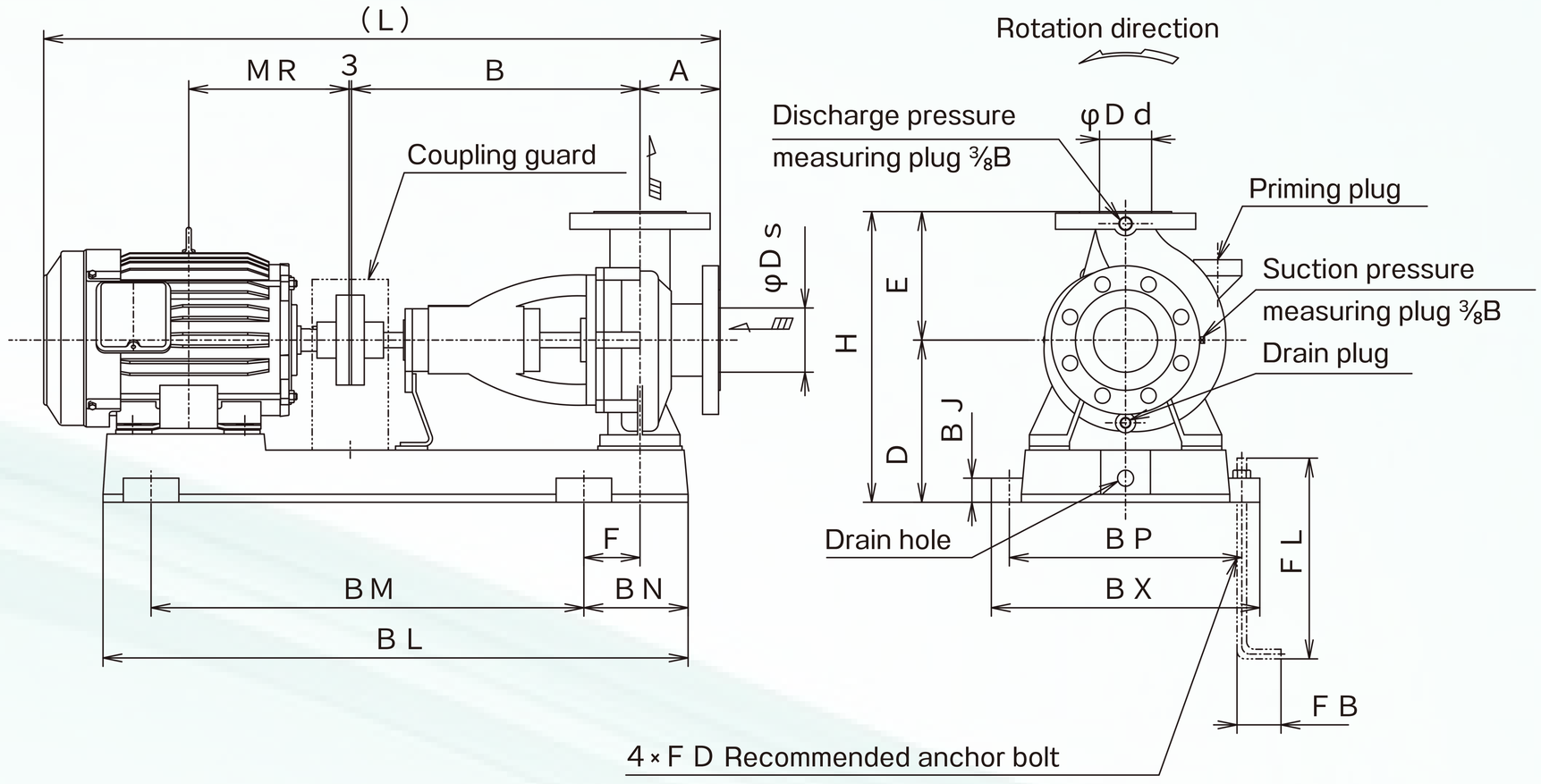
Nominal diameter mm		Type	Output kW	Specifications		
Suction	Discharge			Discharge rate m3/min	Total head m	Allowable positive pressure MPa
32	32	AC32×32L5.75-e	0.75	0.06	17.8	0.08
		AC32×32M51.5-e	1.5	0.06	29.4	0.69
		AC32×32M52.2-e	2.2	0.09	33.4	0.63
40	40	AC40×40L5.75-e	0.75	0.14	12.8	0.82
		AC40×40L5.75H-e	0.75	—	—	—
		AC40×40M51.5-e	1.5	0.14	22.6	0.73
		AC40×40M51.5H-e	1.5	—	—	—
		AC40×40M52.2-e	2.2	0.15	30.5	0.66
		AC40×40M52.2H-e	2.2	—	—	—
50	40	AC50×40L51.5-e	1.5	0.21	17.8	0.79
		AC50×40L51.5H-e	1.5	—	—	—
		AC50×40M52.2-e	2.2	0.21	25.9	0.70
		AC50×40M52.2H-e	2.2	—	—	—
		AC50×40M53.7-e	3.7	0.21	32.2	0.64
		AC50×40H53.7-e	3.7	0.21	37.6	0.60
		AC50×40H55.5-e	5.5	0.21	46.4	0.52
		AC50×40H55.5H-e	5.5	—	—	—
65	50	AC65×50L52.2-e	2.2	0.42	16.7	0.79
		AC65×50L52.2H-e	2.2	—	—	—
		AC65×50M53.7-e	3.7	0.42	24.7	0.69
		AC65×50M53.7H-e	3.7	—	—	—
		AC65×50H55.5-e	5.5	0.42	36.3	0.61
		AC65×50H55.5H-e	5.5	—	—	—
		AC65×50H57.5-e	7.5	0.42	42.6	0.55
		AC65×50H57.5H-e	7.5	—	—	—
		AC65×50K511-e	11	0.42	63.3	0.30
		AC65×50K511H-e	11	—	—	—
		AC65×50K515-e	15	0.42	76	0.16
		AC65×50K515H-e	15	—	—	—

Nominal diameter mm		Type	Output kW	Specifications		
Suction	Discharge			Discharge rate m3/min	Total head m	Allowable positive pressure MPa
80	65	AC80×65L53.7-e	3.7	0.84	16.5	0.77
		AC80×65L53.7H-e	3.7	—	—	—
		AC80×65L55.5-e	5.5	0.84	22.3	0.72
		AC80×65L55.5H-e	5.5	—	—	—
		AC80×65M55.5-e	5.5	0.84	23.6	0.70
		AC80×65M55.5H-e	5.5	—	—	—
		AC80×65M57.5-e	7.5	0.84	31.2	0.63
		AC80×65M57.5H-e	7.5	—	—	—
		AC80×65H511-e	11	0.84	41.2	0.51
		AC80×65H511H-e	11	—	—	—
		AC80×65H515-e	15	0.84	50.6	0.41
		AC80×65H515H-e	15	—	—	—
		AC80×65K518-e	18.5	0.84	60.7	0.31
		AC80×65K518H-e	18.5	—	—	—
		AC80×65K522-e	22	0.84	67.6	0.23
		AC80×65K522H-e	22	—	—	—
100	80	AC100×80L57.5-e	7.5	1.67	16.3	0.79
		AC100×80L57.5H-e	7.5	—	—	—
		AC100×80M511-e	11	1.67	24.4	0.70
		AC100×80M511H-e	11	—	—	—
		AC100×80M515-e	15	1.67	33.2	0.62
		AC100×80H518-e	18.5	1.67	39.2	0.54
		AC100×80H518H-e	18.5	—	—	—
		AC100×80H522-e	22	1.67	45.4	0.48
		AC100×80H522H-e	22	—	—	—
		AC100×80K530-e	30	1.67	65.5	0.26
		AC100×80K530H-e	30	—	—	—
		AC100×80K537-e	37	1.67	73.9	0.19
		AC100×80K537H-e	37	—	—	—
		AC100×80K545-e	45	1.67	84.0	0.09
		AC100×80K545H-e	45	—	—	—

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.

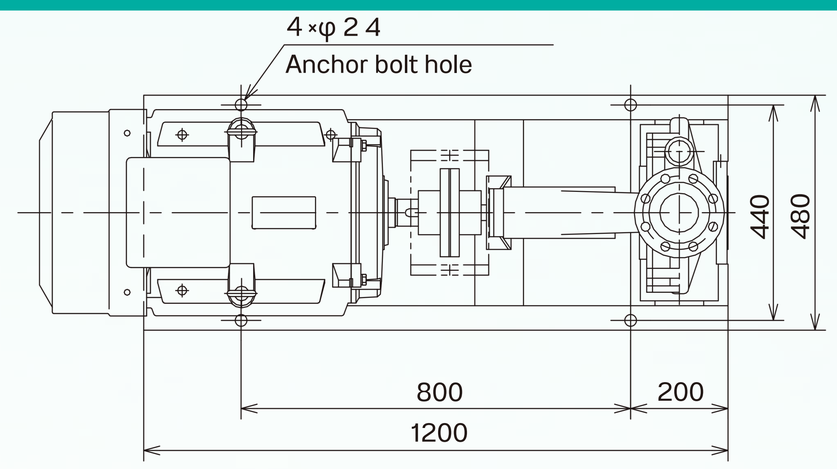
(Unit: mm)

Nominal diameter		Type	Output kW	Pump / Motor								Common base							Anchor bolt			Approx. mass kg
Suction Ds	Discharge Dd			A	B	D	E	F	H	L	MR	BD	BJ	BL	BM	BN	BP	BX	FB	FD	FL	
32	32	AC32×32L5.75-e	0.75	75	360	162	120	55	282	700	140	13	25	650	445	115	230	265	45	M10	200	56
		AC32×32M51.5-e	1.5	75	360	182	160	55	342	750	169	13	25	685	480	115	290	325	45	M10	200	76
		AC32×32M52.2-e	2.2	75	360	182	160	55	342	750	169	13	25	685	480	115	290	325	45	M10	200	78
40	40	AC40×40L5.75(H)-e	0.75	75	360	162	120	55	282	700	140	13	25	650	445	115	230	265	45	M10	200	57
		AC40×40M51.5(H)-e	1.5	75	360	182	160	55	342	750	169	13	25	685	480	115	290	325	45	M10	200	77
		AC40×40M52.2(H)-e	2.2	75	360	182	160	55	342	750	169	13	25	685	480	115	290	325	45	M10	200	79
50	40	AC50×40L51.5(H)-e	1.5	80	360	162	140	55	302	755	169	13	25	685	480	115	230	265	45	M10	200	74
		AC50×40M52.2(H)-e	2.2	80	360	182	160	55	342	755	169	13	25	685	480	115	290	325	45	M10	200	84
		AC50×40M53.7-e	3.7	80	360	202	160	70	362	824	200	15	30	730	540	130	290	335	55	M12	250	100
		AC50×40H53.7-e	3.7	80	360	230	180	70	410	824	200	15	30	730	540	130	290	335	55	M12	250	107
		AC50×40H55.5(H)-e	5.5	80	360	230	180	55	410	894	239	15	30	820	540	130	350	395	55	M12	250	139
65	50	AC65×50L52.2(H)-e	2.2	80	360	162	140	55	302	755	169	13	25	685	480	115	260	295	45	M10	200	77
		AC65×50M53.7(H)-e	3.7	80	360	202	160	70	362	824	200	15	30	730	540	130	290	335	55	M12	250	104
		AC65×50H55.5(H)-e	5.5	100	360	230	180	55	410	914	239	15	30	820	540	130	350	395	55	M12	250	153
		AC65×50H57.5(H)-e	7.5	100	360	230	180	55	410	914	239	15	30	820	540	130	350	395	55	M12	250	159
		AC65×50K511(H)-e	11	100	360	265	225	95	490	1107	323	20	40	950	660	170	400	456	70	M16	315	254
		AC65×50K515(H)-e	15	100	360	265	225	95	490	1107	323	20	40	950	660	170	400	456	70	M16	315	255
80	65	AC80×65L53.7(H)-e	3.7	100	360	202	160	70	362	844	200	15	30	730	540	130	290	335	55	M12	250	112
		AC80×65L55.5(H)-e	5.5	100	360	202	160	70	362	914	239	15	30	820	540	130	320	365	55	M12	250	139
		AC80×65M55.5(H)-e	5.5	100	360	230	180	55	410	914	239	15	30	820	540	130	350	395	55	M12	250	148
		AC80×65M57.5(H)-e	7.5	100	360	230	180	55	410	914	239	15	30	820	540	130	350	395	55	M12	250	154
		AC80×65H511(H)-e	11	100	360	245	200	95	445	1107	323	20	40	950	660	170	400	456	70	M16	315	241
		AC80×65H515(H)-e	15	100	360	245	200	95	445	1107	323	20	40	950	660	170	400	456	70	M16	315	242
		AC80×65K518(H)-e	18.5	100	360	265	225	95	490	1137	345	20	40	950	660	170	400	456	70	M16	315	285
		AC80×65K522(H)-e	22	100	360	265	225	95	490	1136	352	20	40	1000	660	170	440	496	70	M16	315	343
100	80	AC100×80L57.5(H)-e	7.5	100	360	230	180	55	410	914	239	15	30	820	540	130	350	395	55	M12	250	162
		AC100×80M511(H)-e	11	100	360	245	200	95	445	1107	323	20	40	950	660	170	400	456	70	M16	315	249
		AC100×80M515-e	15	100	360	245	200	95	445	1107	323	20	40	950	660	170	400	456	70	M16	315	262
		AC100×80H518(H)-e	18.5	100	360	265	225	95	490	1137	345	20	40	950	660	170	400	456	70	M16	315	297
		AC100×80H522(H)-e	22	100	360	265	225	95	490	1136	352	20	40	1000	660	170	440	496	70	M16	315	356
		AC100×80K530(H)-e	30	100	470	290	250	100	540	1284	371	25	50	1120	740	190	440	510	90	M20	400	409

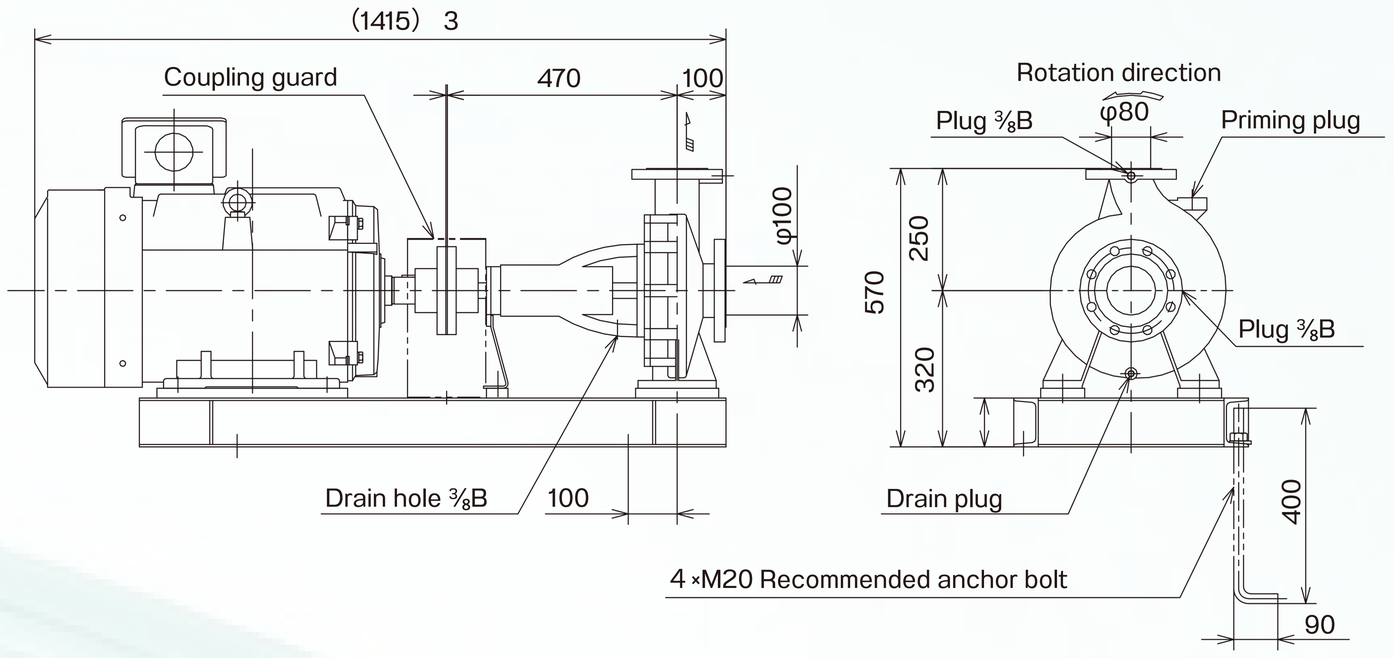
*Mounting dimensions are compatible with AC model (product equipped with totally enclosed fan-cooled IE1 motor). Also the motor frame number is the same. Therefore, replacement with a Top Runner efficiency (equivalent to IE3) motor is possible. However, please keep the following point in mind. The number 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



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.

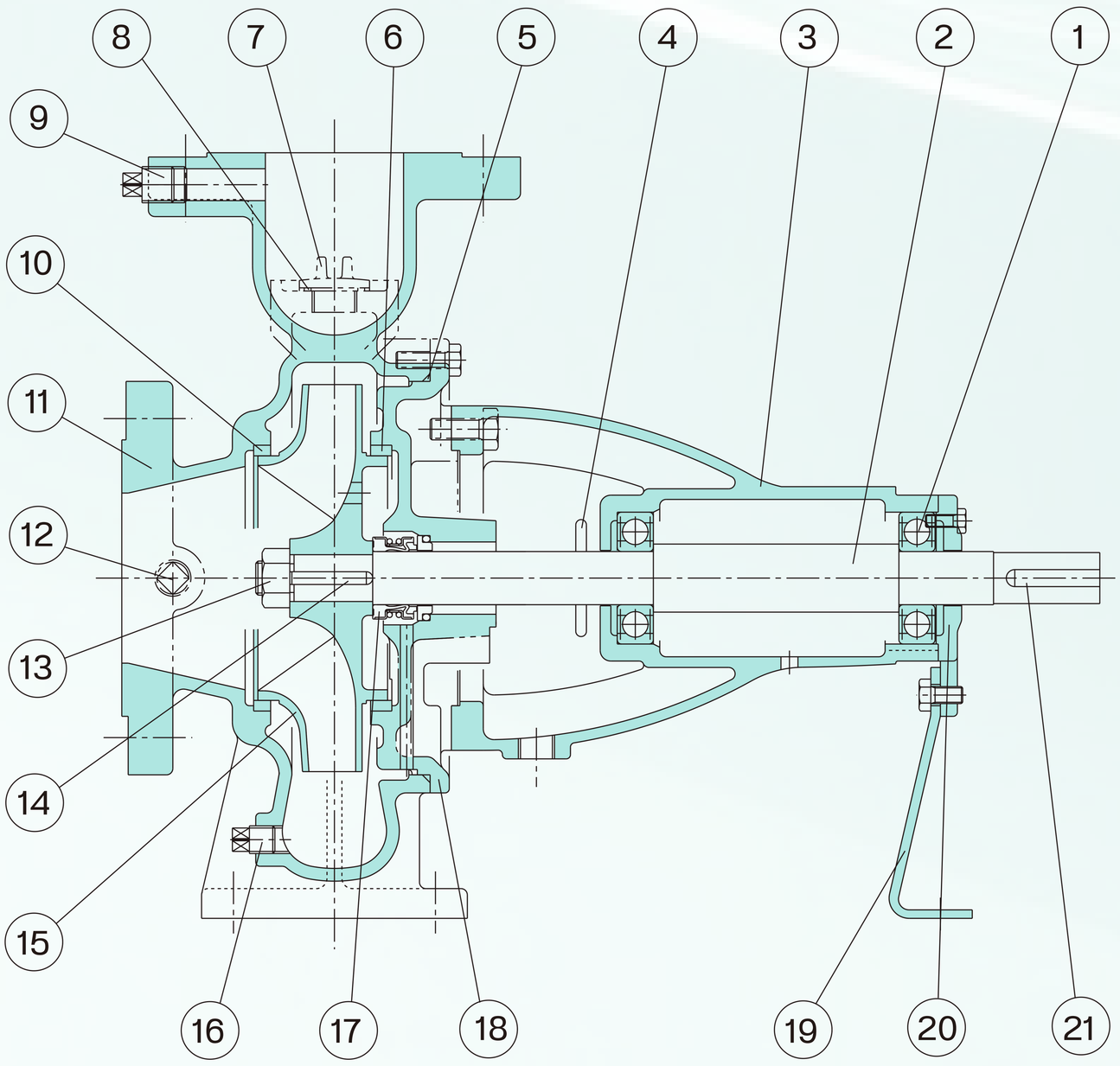
(Unit: mm)

Type	Output kW	Approx. mass kg
AC100×80K537(H)-e	37	402
AC100×80K545(H)-e	45	488

*Mounting dimensions are compatible with AC 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

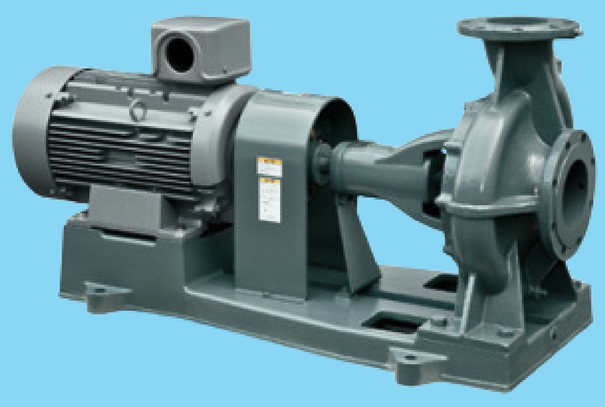


No.	Part name	Material
1	Ball bearing	SUJ2
2	Main shaft	SUS403
3	Impeller	CAC406/FC200
5	Deflector	CR
6	O-ring	NBR
7	Liner ring	CAC406
8	Priming plug	C3771B
9	O-ring	NBR
10	Plug	SWCH
11	Liner ring	CAC406
12	Casing	FC200/FCD450
13	Plug	SWCH
14	Impeller nut	SUS304
15	Impeller key	SUS304
16	Bearing case	FC200
17	Drain plug	SWCH
18	Mechanical seal	SiC vs Carbon
19	Casing cover	FC200
20	Mounting leg	SS400
21	Bearing cover	FC200
22	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)



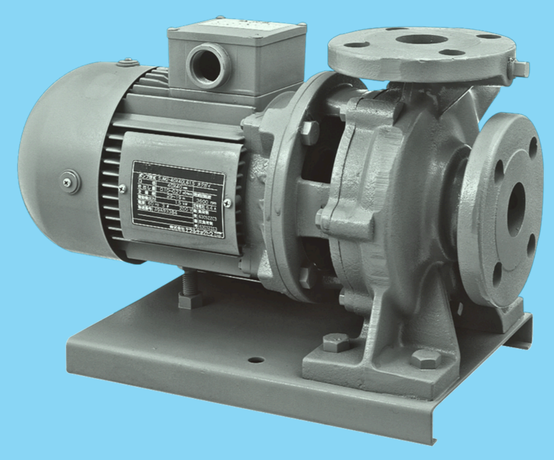
JIS standard(JISB8313) by referring internal standard ISO2858

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



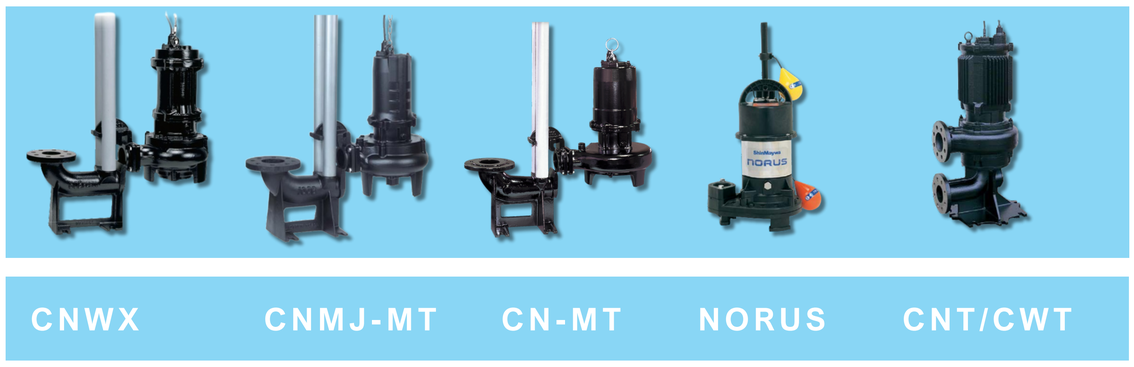
In-Line
Closed coupled pump

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

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