

A/AN **60Hz** SERIES
SUBMERSIBLE WASTEWATER
SUMP PUMPS



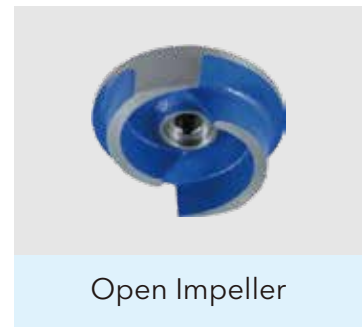
AN

FEATURES

- A precision manufacture assembling lines, complimented with a synthetic production test to ensure each IP68 motor with highest level of final pump quality.
- Standard accessories include : cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals and oil seal design.
- Oil Elevation Disk design in the oil chamber to ensure the mechanical seals lubrication and to extend the service life of pump.
- Lightweight, portable and durable for wide range of uses.
- A-05A is a practical pump, with a low temperature, oil filled motor and single mechanical seal design (CA/CE).



Vortex Impeller



Open Impeller

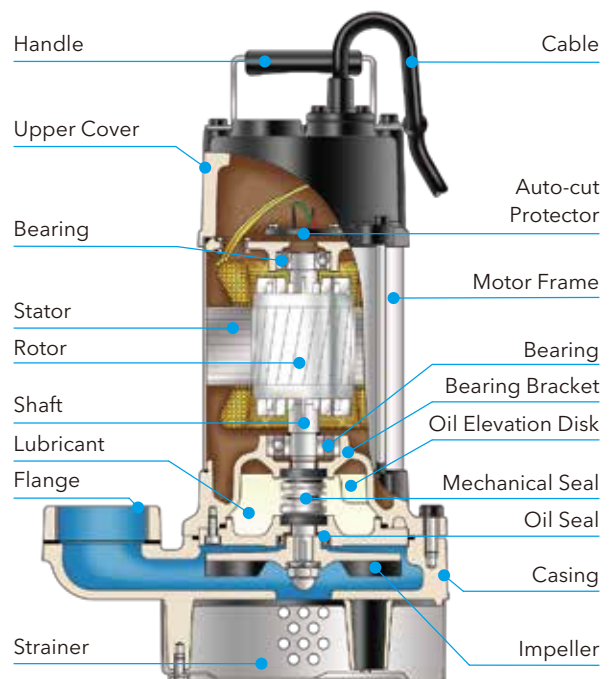
APPLICATIONS

- Sump drainage.
- Flood control.
- Water features.
- Dewatering fishpond, basement, cellars.

PRODUCT NOMENCLATURE

AN	—	2	1	
Type		Discharge inch	HP	
A	—	3	1	V
Type		Discharge inch	HP	Vertical Discharge Model

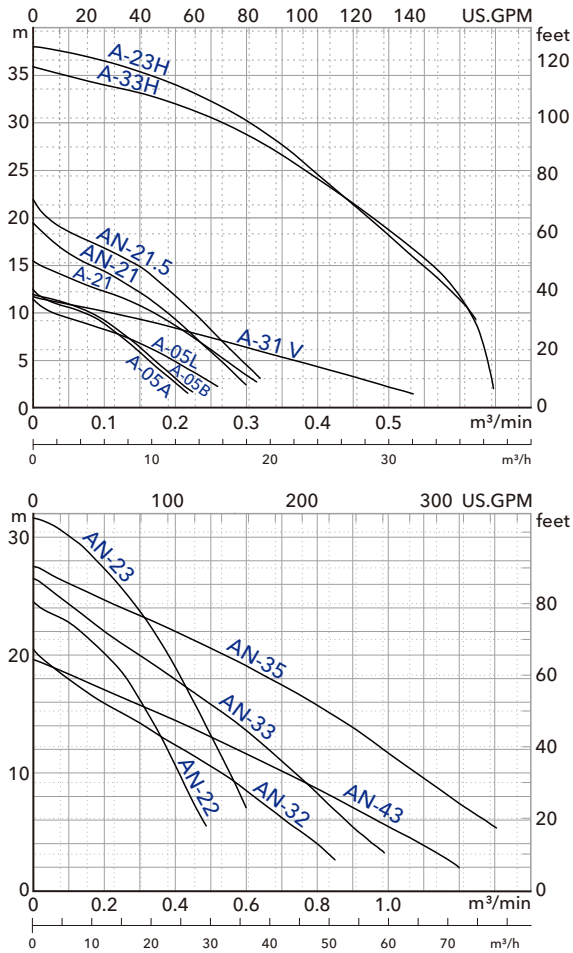
※ V Type: 3"(80mm) Vertical Discharge Model



- Handle
- Cable
- Upper Cover
- Bearing
- Auto-cut Protector
- Stator
- Rotor
- Motor Frame
- Shaft
- Lubricant
- Flange
- Bearing
- Bearing Bracket
- Oil Elevation Disk
- Mechanical Seal
- Oil Seal
- Casing
- Strainer
- Impeller



PERFORMANCE CURVES



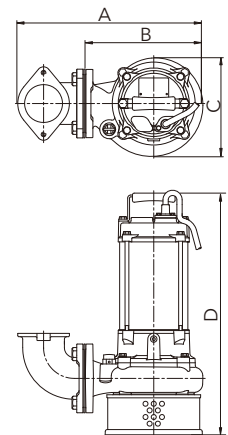
SPECIFICATIONS

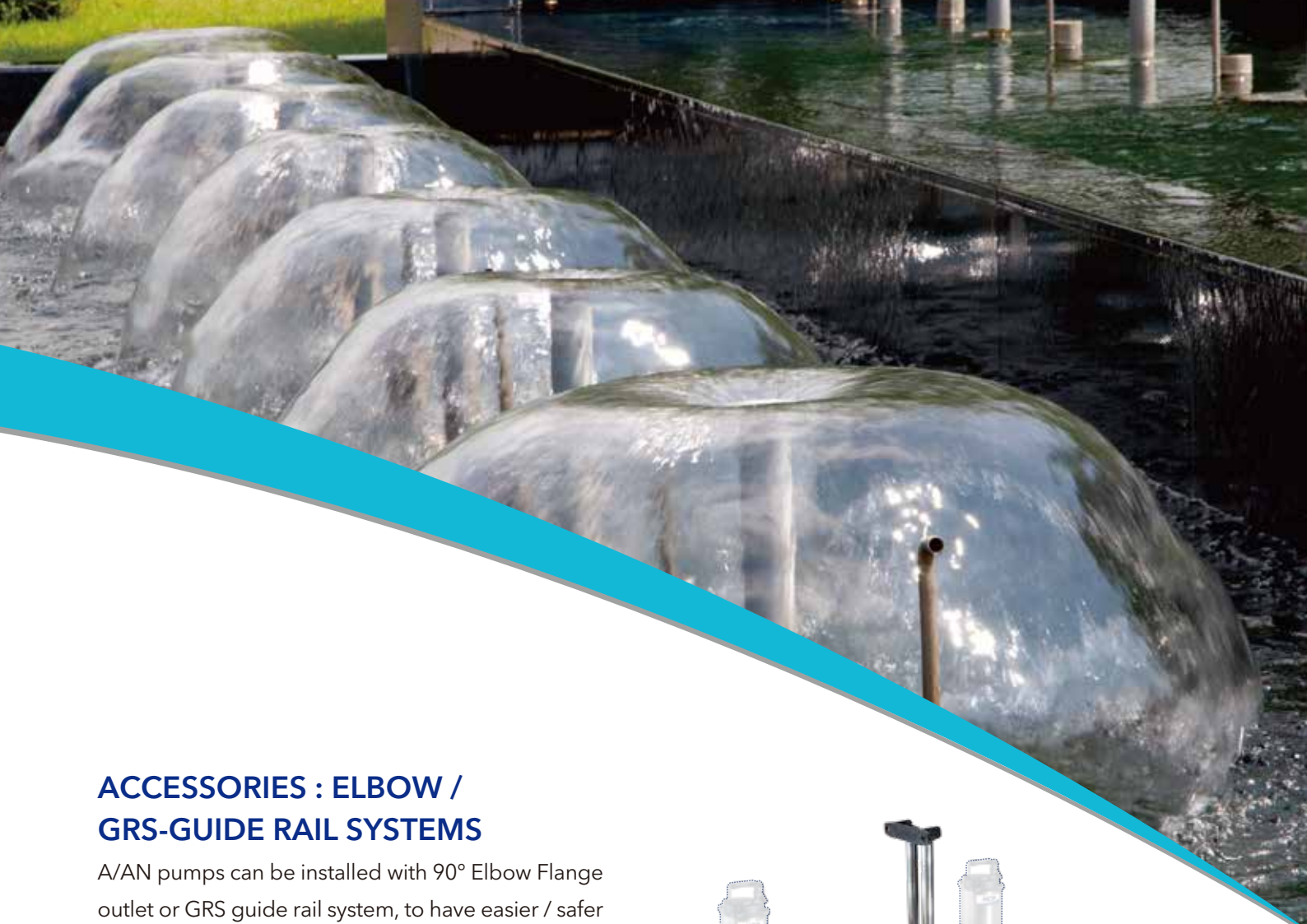
Item		Description
Limits of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Clean / Dirty Water From Sumps • Basins and Tanks
Type	Frequency	60Hz
	Motor	2P(3600rpm) • Dry Motor (A-05A : Oil Motor)
	Insulation	Class B (0.5~1HP) • Class F (1.5~5HP)
	Protection	IP68
	Protector	Auto-cut (0.5HP 1Ø : Thermal)
	Bearing	Ball Type
	M.seal	Double M.seals (A-05A : Single M.seal)
Material	Impeller	Vortex • Open
	Upper Cover	FC200 / ASTM-30
	Motor Frame	SUS304 / AISI 304
	Shaft	SUS410 / ASTM 410 (0.5~1.5HP) • SUS403 / ASTM 403 (2~5HP)
	M.seal	CA/CE & SiC/SiC (A-05A : CA/CE)
	Casing	FC200 / ASTM-30
	Impeller	FC200 / ASTM-30 (A-05A/05B : PA)
Optional	Cable	VCT or SJOW/SOW
Optional		Pumps can be customized to fit specifications Floating Switch (2P : 0.5~3HP)

PERFORMANCE SPECS.

※ Note : Weight Without Cable & Elbow Set.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard		Solid Passage mm(inch)	Weight kg(lb)		Dimensions mm				
					m-m³/min	ft-GPM		1Ø	3Ø	A	B	C	D	
										1Ø	3Ø			
A-05A	0.5 (0.4)	2" (50)	1	Capacitor	8-0.12	26-32	7.5(1/4")	12(26)	-	225	-	161	349	-
A-05B	0.5 (0.4)	2" (50)	1/3	Capacitor DOL	8-0.12	26.2-32	7.5(1/4")	13(29)	12(26)	225	-	161	371	371
A-05L	0.5 (0.4)	2" (50)	1/3	Capacitor DOL	6.5-0.15	21.3-40	10(3/8")	16(35)	14(31)	245	-	173	430	430
A-21	1 (0.75)	2" (50)	1/3	Capacitor DOL	10-0.17	32.8-45	10(3/8")	17(37)	15(33)	245	-	173	430	430
A-31 V	1 (0.75)	3" (80)	1/3	Capacitor DOL	6-0.3	19.7-80	10(3/8")	18(40)	17(37)	276	-	173	445	445
AN-21	1 (0.75)	2" (50)	1/3	Capacitor DOL	13.5-0.12	44.3-32	7(1/4")	18(40)	17(37)	262	-	187	393	393
AN-21.5	1.5 (1.1)	2" (50)	1/3	Capacitor DOL	14.5-0.16	47.6-42	7(1/4")	20(44)	18(40)	262	-	187	413	393
AN-22	2 (1.5)	2" (50)	1/3	Capacitor DOL	18-0.25	59.1-66	10.5(3/8")	31(68)	27(60)	282	-	207	580	499
AN-32	2 (1.5)	3" (80)	1/3	Capacitor DOL	10.5-0.5	34.5-132	10.5(3/8")	33(73)	29(64)	391	249	208	591	510
AN-23	3 (2.2)	2" (50)	1/3	Capacitor DOL	23-0.3	75.5-80	10.5(3/8")	35(77)	30(66)	282	-	207	592	499
AN-33	3 (2.2)	3" (80)	1/3	Capacitor DOL	15.5-0.5	50.9-132	10.5(3/8")	37(82)	32(71)	391	249	208	603	510
AN-43	3 (2.2)	4" (100)	1/3	Capacitor DOL	11-0.7	36.1-185	20(3/4")	37(82)	32(71)	389	248	207	601	520
AN-35	5 (3.7)	3" (80)	3	DOL	18.5-0.6	60.7-158	20(3/4")	-	35(77)	440	248	207	-	540
A-23H	4 (3)	2" (50)	1	Capacitor	34-0.2	111.6-52	10.5(3/8")	40(88)	-	279	-	209	561	-
A-33H	4 (3)	3" (80)	1	Capacitor	23-0.4	75.5-106	10.5(3/8")	41(90)	-	388	245	216	563	-





ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS

A/AN pumps can be installed with 90° Elbow Flange outlet or GRS guide rail system, to have easier / safer installation or removal during replacement and maintenance. The GRS does not support the V Type Models.



ELBOW



GRS

PRODUCT FEATURES



Epoxy Cable Base

An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.



Double Mechanical Seals

Superior abrasion resistant mechanical seal is manufactured with silicon carbide to ensure the best seal effect.



Auto-cut Protector

Automatic On / Off motor protector to prevent motor burn out due to high temperature and excess amperage draw.



High Efficiency Dry Motors

All stator coils are treated with insulating varnish procedures to achieve the best insulation, efficiency and durability.



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Distributor:

DANEN6-2310