





PRODUCT FEATURES




High Solids Epoxy Coating

The film thickness of High Solids Epoxy Coating can be greater than 100 μm . This heavy coating provides good resistance to salty sea water, industry wastewater and chemical fluid. The coating can form an anti-corrosion layer on metal surface, which reduce speed of corrosion.




Epoxy Cable Base

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



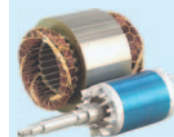
Mechanical Seal

A double mechanical seal consists of two seals arranged in a series. Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.



Auto-cut Protector

The Auto-cut Protector will be activated and cut the power off automatically if motor run in abnormal electric current or temperature. The Protector can revert when the motor temperature returns to normal. Auto-cut Protector is a regular component for pump which power is below 10HP.



High Efficiency Dry Motor

All stator coils need to be treated with insulating varnish procedure to achieving the best insulation, efficiency and durability.



Professionalism • Innovation • Service • Commitment

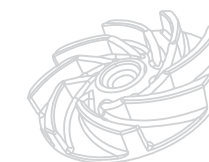
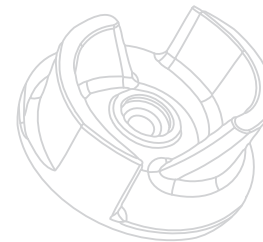
HCP PUMP MANUFACTURER CO., LTD.
www.hcppump.com.tw



Distributor:

DAFEN5-1708

We reserve the right to alter specifications of product at any time without giving prior notice.



AF **50Hz**
SERIES
SUBMERSIBLE SEWAGE
WASTEWATER PUMPS



FEATURES

- Pump body is made of casting iron and with high solids epoxy coating which make pump firm, reliable, durable and long service life.
- Triangular handle is designed for easy handling on guide rail system (model above 7.5HP).
- An oil lifter is located in the oil chamber, which ensure the lubrication of mechanical and extend the service life of pump.
- A Food Grade Lubricant is filled in mechanical seal chamber. The Lubricant meets standards, such as FDA, REACH and so on. This lubricant is toxicant free, eco-friendly, and low impact on agriculture & aquaculture farming.
- Non-clogging impeller designs :

U Type Impeller	P Type Impeller	E Type Impeller
The U type non-clogging impeller produces a vortex (whirlpool effect) which allow slurry, long fibrous materials and solid waste to pass through, without contact with the impeller.	The P type impeller is a semi-open impeller which come with single or two vanes. The impeller is excellent to use with waste materials to prevent from clogging.	Enclosed channel impeller features high efficiency, large capacity, large solid passage and non-clogging.

APPLICATIONS

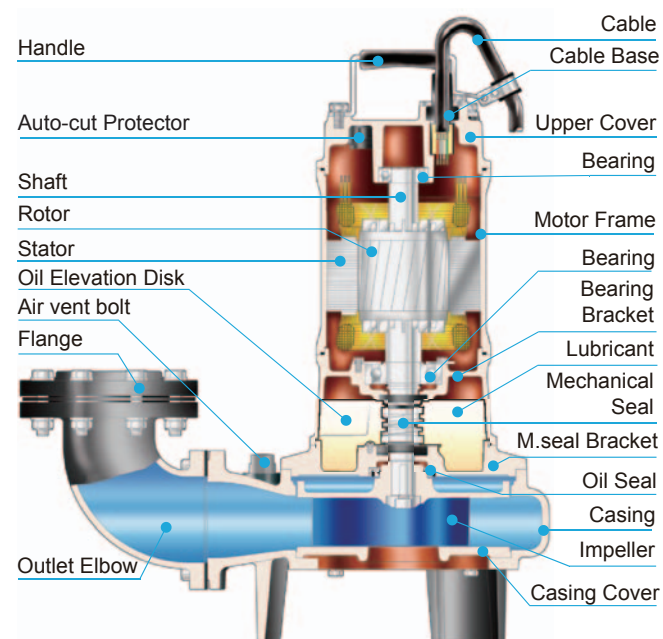
- Residential building, hospital, commercial building and household usage.
- Livestock farming, pig farming, dairy farming and sewage treatment.
- Food industry, pulp and paper industry, mining, dyeing and finishing factory, leather factory, steel manufacturer, electronics industry and wastewater treatment.
- Hydraulic engineering and flood control.
- Sanitary sewer pumping.

PRODUCT NOMENCLATURE

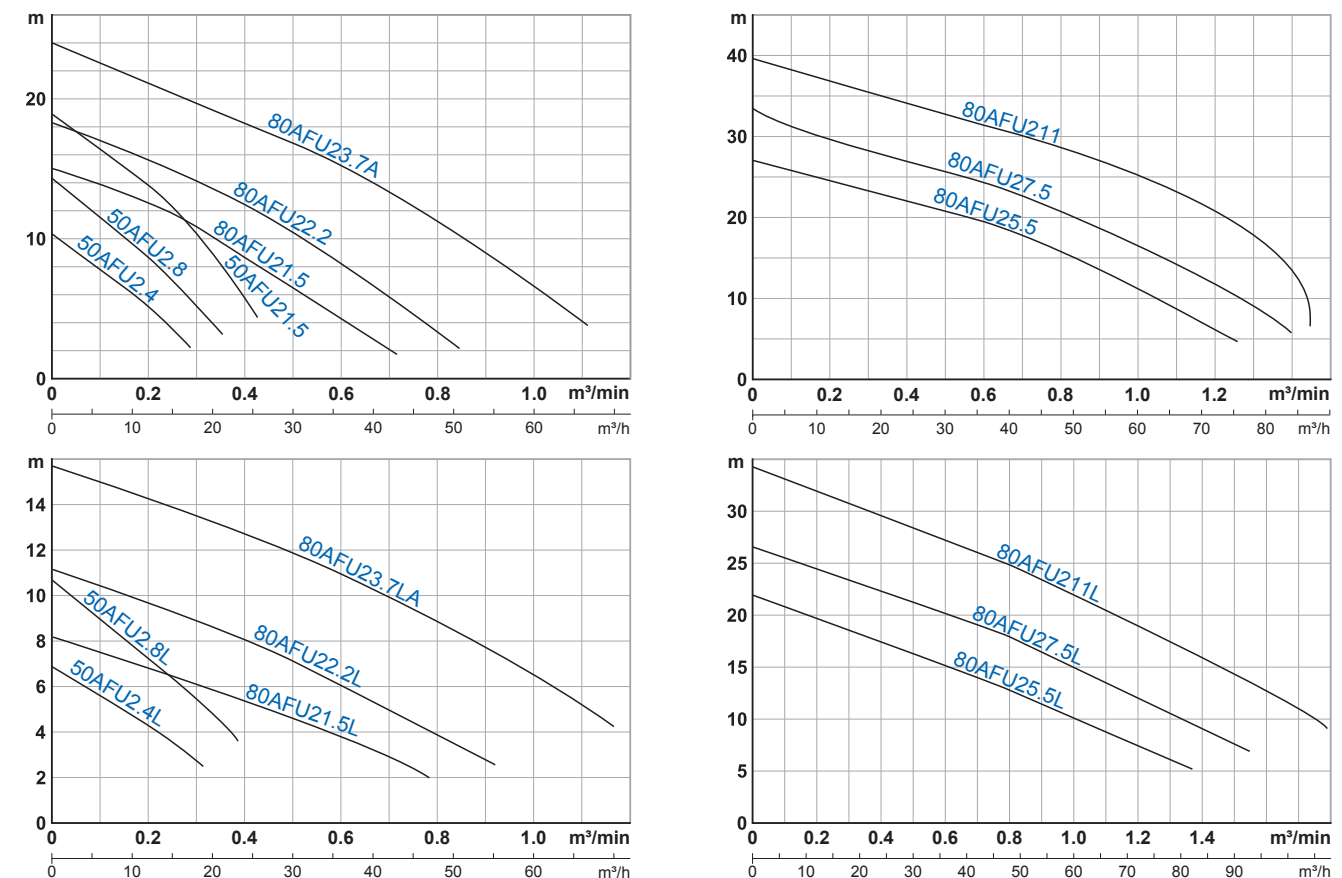
80	AF	P	2	1.5
Discharge mm	Type	Impeller type (U/P/E)	Pole	kW
AF	6	10		
Type	Discharge inch	HP		

SPECIFICATIONS (Discharge 50~100mm)

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
Applications	Wastewater-Sewage-Industrial Wastewater
Frequency	50Hz
Motor	2P (3000rpm) /4P(1500rpm) • Dry Motor
Insulation	Class B (0.5~3HP) • Class F (5~15HP)
Protection	IP68
Protector	Auto-cut(0.5~10HP)-MTS & MS(15HP)
Bearing	Ball type
M.seal	Double M.seals
Impeller	Semi-open(U/P) • Enclosed-channel(E)
Upper Cover	FC200
Motor Frame	FC200
Material	Shaft SUS410 (2P: 0.5~1HP) SUS403 (2P : 2~10HP • 4P : 0.5~5HP) SUS420J2 (2P : 15HP • 4P : 7.5~15HP)
M.seal	CA/CE & SIC/SIC
Casing	FC200
Impeller	FC200
Cable	VCT/H07RN-F/SJOW/SOW
Optional	Pumps can be customized to fit specifications Floating Switch(2P : 0.5~3HP • 4P : 0.5~2HP)



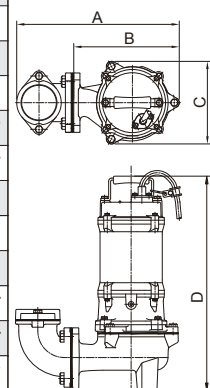
PERFORMANCE CURVES



PERFORMANCE SPECS.

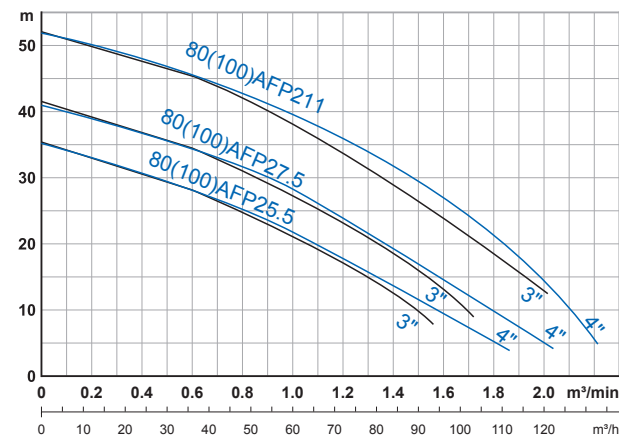
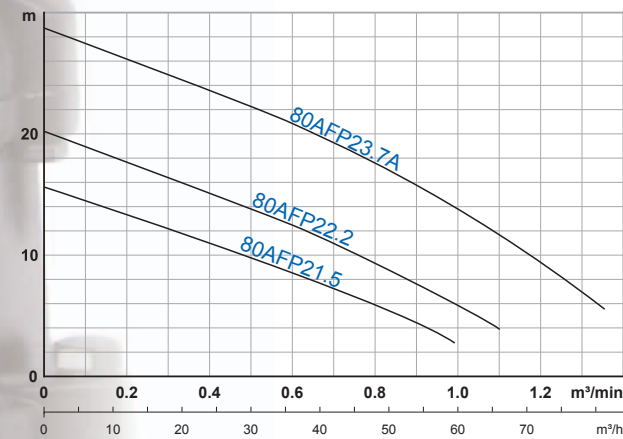
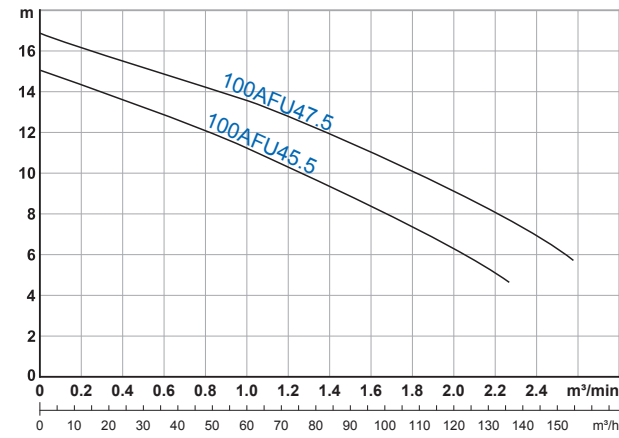
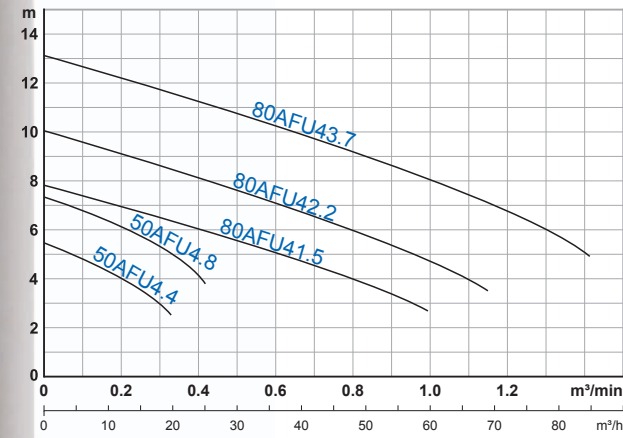
※Start Method: S-D= Star-Delta.
The listed weight is not including cable and discharge.

Pole	Model	Output HP(kW)	Discharge Inch(mm)	Phase	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimensions mm				
							m³/min	m³/h		1Ø	3Ø	A	B	C	D	
2P	50AFU2.4	0.5 (0.4)	2" (50)	1	Capacitor Direct	6	0.15	9	35	19	18	235	-	154	417	417
	50AFU2.8	1 (0.75)	2" (50)	3	Capacitor Direct	8	0.2	12	35	20	19	235	-	154	417	417
	50AFU2.1.5	2 (1.5)	2" (50)	1	Capacitor Direct	14	0.2	12	35	33	29	288	-	202	532	477
	80AFU2.1.5	2 (1.5)	3" (80)	1	Capacitor Direct	8.5	0.4	24	50	35	32	397	260	202	574	519
	80AFU2.2.2	3 (2.2)	3" (80)	1	Capacitor Direct	12.5	0.4	24	50	38	34	397	260	202	601	519
	80AFU2.3.7A	5 (3.7)	3" (80)	3	Direct	16.5	0.5	30	50	-	46	481	286	222	-	573
	80AFU2.5.5	7.5 (5.5)	3" (80)	3	Direct	19.5	0.6	36	50	-	68	501	309	258	-	665
	80AFU2.7.5	10 (7.5)	3" (80)	3	Direct	24	0.6	36	50	-	74	501	309	258	-	665
	80AFU2.11	15 (11)	3" (80)	3	S-D	31.5	0.6	36	50	-	85	501	309	258	-	705
	50AFU2.4L	0.5 (0.4)	2" (50)	1	Capacitor Direct	4	0.22	13.2	50	20	19	307	201	164	447	447
	50AFU2.8L	1 (0.75)	2" (50)	1	Capacitor Direct	6.5	0.25	15	50	22	21	307	201	164	447	447
	80AFU2.1.5L	2 (1.5)	3" (80)	1	Capacitor Direct	4.5	0.5	30	76	38	34	402	265	221	626	571
	80AFU2.2.2L	3 (2.2)	3" (80)	1	Capacitor Direct	7	0.5	30	76	40	36	402	265	221	653	571
	80AFU2.3.7LA	5 (3.7)	3" (80)	3	Direct	11	0.6	36	76	-	48	481	286	235	-	625
80AFU2.5.5L	7.5 (5.5)	3" (80)	3	Direct	13	0.8	48	76	-	70	506	314	273	-	717	
80AFU2.7.5L	10 (7.5)	3" (80)	3	Direct	17.5	0.8	48	76	-	76	506	314	273	-	717	
80AFU2.11L	15 (11)	3" (80)	3	S-D	24.5	0.8	48	76	-	87	506	314	273	-	757	

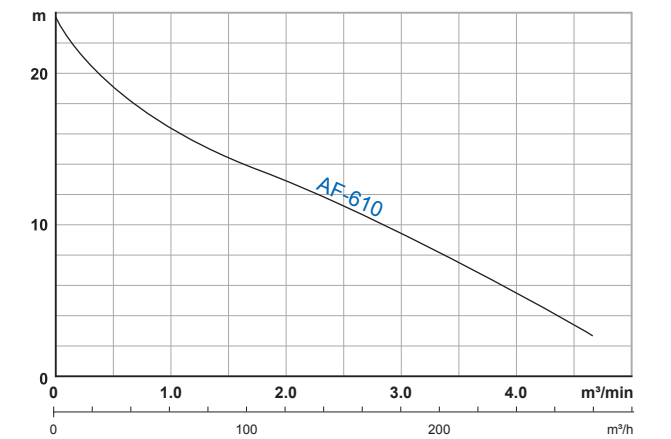
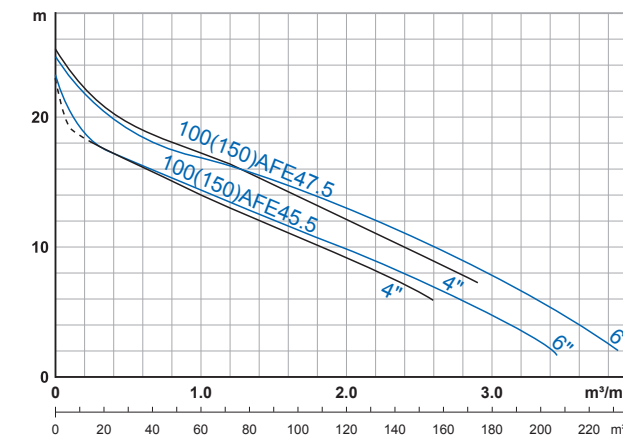
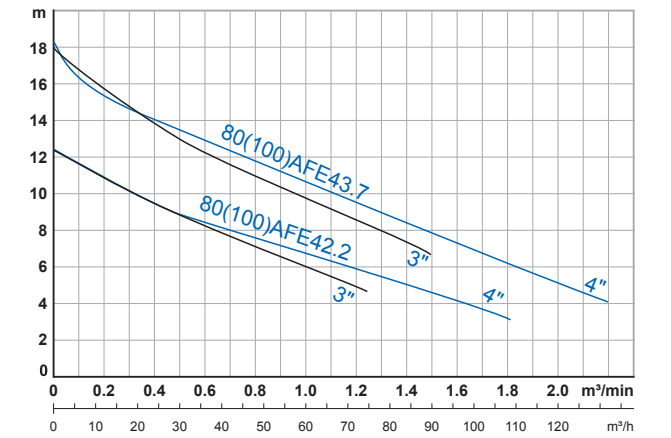
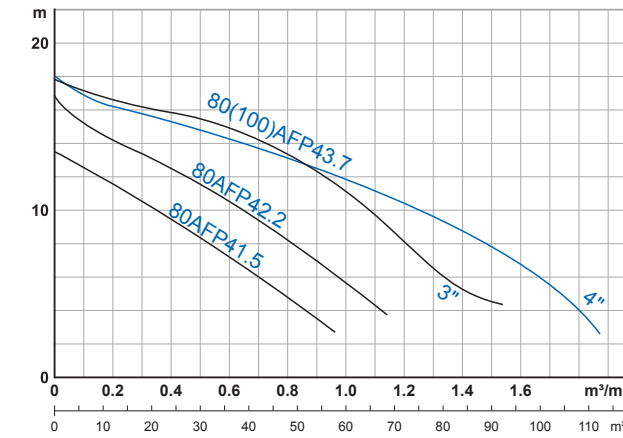




PERFORMANCE CURVES



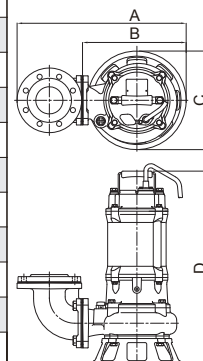
PERFORMANCE CURVES



PERFORMANCE SPECS.

※Start Method: S-D= Star-Delta.
The listed weight is not including cable and discharge.

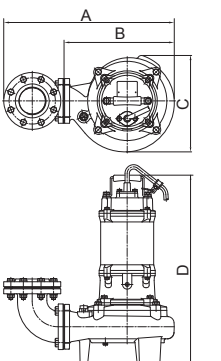
Pole	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimensions mm				
							m³/min	m³/h		1Ø	3Ø	A	B	C	D	
4P	50AFU4.4	0.5 (0.4)	2" (50)	1/3	Capacitor Direct	3.5	0.25	15	50	30	28	347	241	204	526	526
	50AFU4.8	1 (0.75)	2" (50)	1/3	Capacitor Direct	5	0.3	18	50	30	29	347	241	204	526	526
	80AFU41.5	2 (1.5)	3" (80)	1/3	Capacitor Direct	5	0.6	36	76	46	46	447	305	255	698	621
	80AFU42.2	3 (2.2)	3" (80)	3	Direct	7	0.6	36	76	-	55	535	343	289	-	655
	80AFU43.7	5 (3.7)	3" (80)	3	Direct	10	0.6	36	76	-	63	535	343	289	-	695
	100AFU45.5	7.5 (5.5)	4" (100)	3	Direct	11	1.0	60	100	-	96	615	393	337	-	813
2P	100AFU47.5	10 (7.5)	4" (100)	3	Direct	13.5	1.0	60	100	-	105	615	393	337	-	853
	80AFP21.5	2 (1.5)	3" (80)	1/3	Capacitor Direct	8.5	0.6	36	35	37	33	417	275	260	575	603
	80AFP22.2	3 (2.2)	3" (80)	1/3	Capacitor Direct	12.5	0.6	36	35	40	35	417	275	260	521	521
	80AFP23.7A	5 (3.7)	3" (80)	3	Direct	20.5	0.6	36	32	-	48	498	305	290	-	578
	80(100)AFP25.5	7.5 (5.5)	4" (100)	3	Direct	28	0.6	36	30	-	75	565	373	345	-	689
	80(100)AFP27.5	10 (7.5)	4" (100)	3	Direct	34.5	0.6	36	30	-	81	565	373	345	-	689
	80(100)AFP211	15 (11)	4" (100)	3	S-D	39.5	1.0	60	30	-	91	565	373	345	-	729



PERFORMANCE SPECS.

※The listed weight is not including cable and discharge.

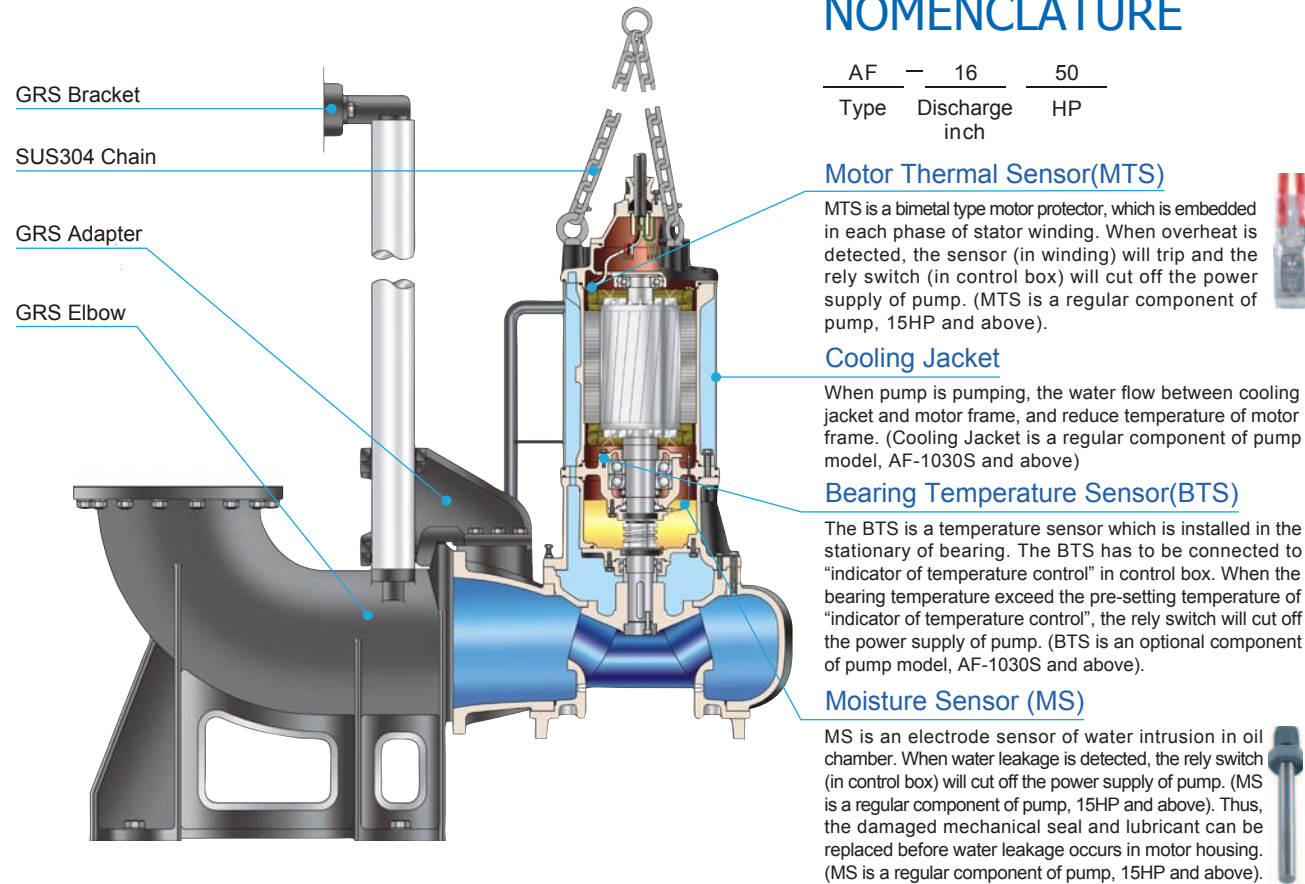
Pole	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimensions mm				
							m³/min	m³/h		1Ø	3Ø	A	B	C	D	
4P	80AFP41.5	2 (1.5)	3" (80)	1/3	Capacitor Direct	8	0.5	30	50	47	47	474	332	288	645	567
	80AFP42.2	3 (2.2)	3" (80)	3	Direct	10	0.6	36	50	-	58	550	358	313	-	603
	80(100)AFP43.7	5 (3.7)	4" (100)	3	Direct	14.5	0.6	36	50	-	67	550	358	313	-	643
	80(100)AFE42.2	3 (2.2)	4" (100)	3	Direct	7	0.8	48	76	-	60	539	328	287	-	660
						6.5	1.0	60	76	-	60	551	328	287	-	660
	80(100)AFE43.7	5 (3.7)	4" (100)	3	Direct	11	0.8	48	76	-	71	539	346	304	-	700
						10.5	1.0	60	76	-	71	569	346	304	-	700
	100(150)AFE45.5	7.5 (5.5)	6" (150)	3	Direct	14	1.0	60	76	-	110	653	430	374	-	786
	100(150)AFE47.5	10 (7.5)	6" (150)	3	Direct	17	1.0	60	76	-	120	653	430	374	-	826
						15	1.5	90	76	-	120	713	430	374	-	826
AF-610	10 (7.5)	6" (150)	3	Direct	11	2.5	150	70	-	183	850	521	450	-	871	



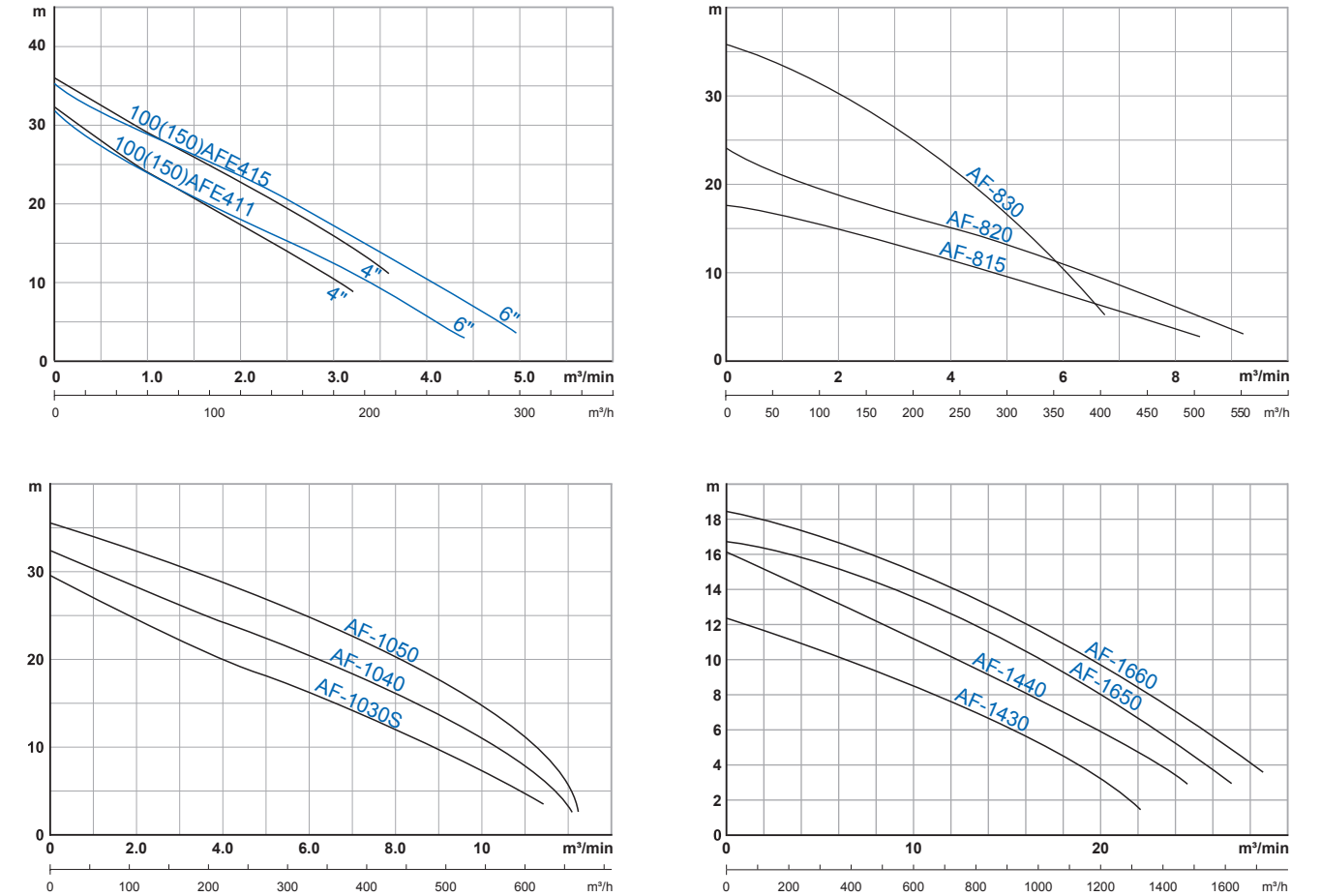


HEAVY DUTY SUBMERSIBLE PUMP

PRODUCT NOMENCLATURE



PERFORMANCE CURVES



SPECIFICATIONS(Discharge 150~400mm)

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Wastewater-Sewage-Industrial Wastewater
	Frequency 50Hz
	Motor 4P (1500rpm) /6P(1000rpm) • Dry Motor
Type	Insulation Class F
	Protection IP68
	Protector MTS & MS
	Bearing Ball type
	M.seal Double M.seals
	Impeller Enclosed-channel(E)
Material	Upper Cover FC200
	Motor Frame FC200
	Shaft SUS420J2
	M.seal CA/CE & SiC/SiC
	Casing FC200
	Impeller FC200
	Cable VCT/PNCT/H07RN-F
Optional	Pumps can be customized to fit specifications

ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS



Pump can be installed with 90° Elbow with Flange outlet or GRS quick coupling system, for quick and safer for installation, removal, replacement and maintenance purpose.

PERFORMANCE SPECS.

※Start Method: S-D= Star-Delta.
The listed weight is not including cable and discharge.

Pole	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg	Dimensions mm			
							m³/min	m³/h			A	B	C	D
4P	100(150)AFE411	15 (11)	4" (100)	3	S-D	15.5	1.0	60	76	164	743	520	447	918
	100(150)AFE415	20 (15)	4" (100)	3	S-D	29	1.0	60	76	176	743	520	447	918
				6" (150)	3	S-D	21	2.5	150					
	AF-815	15 (11)	8" (200)	3	S-D	10	4.5	270	75	221	950	566	501	988
	AF-820	20 (15)	8" (200)	3	S-D	14	4.5	270	75	234	950	566	501	988
	AF-830	30 (22)	8" (200)	3	S-D	18	4.5	270	76	220	950	566	501	988
6P	AF-1030S	30 (22)	10" (250)	3	S-D	14	7.0	420	60	710	1273	786	676	1621
	AF-1040	40 (30)	10" (250)	3	S-D	17	7.0	420	60	681	1273	786	676	1621
	AF-1050	50 (37)	10" (250)	3	S-D	22	7.0	420	60	691	1273	786	676	1621
	AF-1430	30 (22)	14" (350)	3	S-D	6.5	14.0	840	120	828	1544	908	813	1763
	AF-1440	40 (30)	14" (350)	3	S-D	8.5	14.0	840	120	833	1544	908	813	1763
	AF-1650	50 (37)	16" (400)	3	S-D	7.5	20.0	1200	120	965	1558	908	813	1763
	AF-1660	60 (45)	16" (400)	3	S-D	9	20.0	1200	120	970	1558	908	813	1763

