

AFC **50Hz**
SERIES

SUBMERSIBLE CUTTER PUMPS



80AFC21.5/22.2



80AFC23.7A



80(100)AFC25.5/27.5/211



80AFC42.2
80(100)AFC43.7



100(150)AFC45.5/47.5

AFC Solution for Waste Water

FEATURES

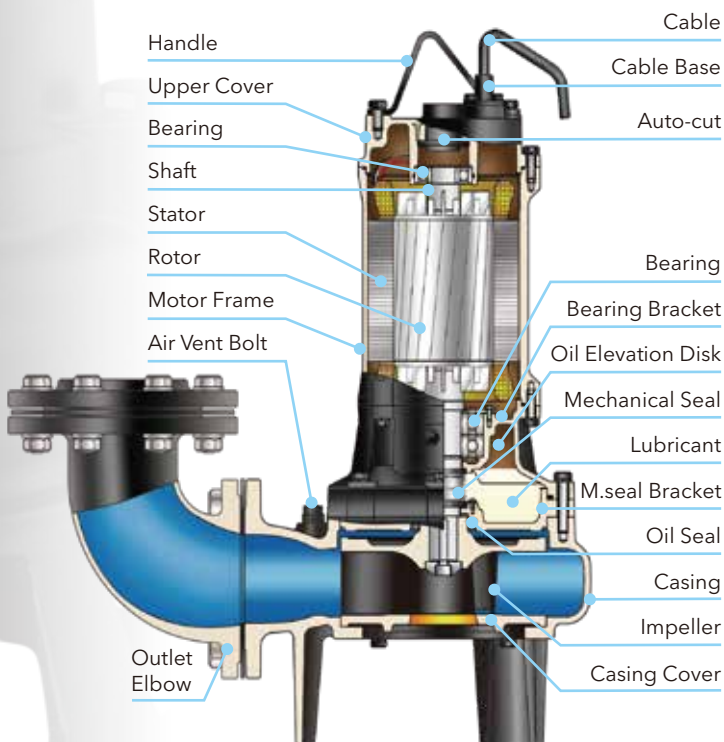
- Tungsten carbide edged impeller is perfect for pumping sewage and breaking / tearing debris.
- Standard accessories include : cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals and oil seal design.
- Casted iron body pump with 100~150µm high solids epoxy coating.

APPLICATIONS

- Drainage of waste water containing debris from factories.
- Sewage management, water accumulation, septic tanks, and or farms.
- Drainage of waste water from attenuation, purifying and sewage tanks in water treatment plant.

PRODUCT NOMENCLATURE

80	AF	C	2	1.5
Discharge mm	Type	Impeller type	Pole	kW

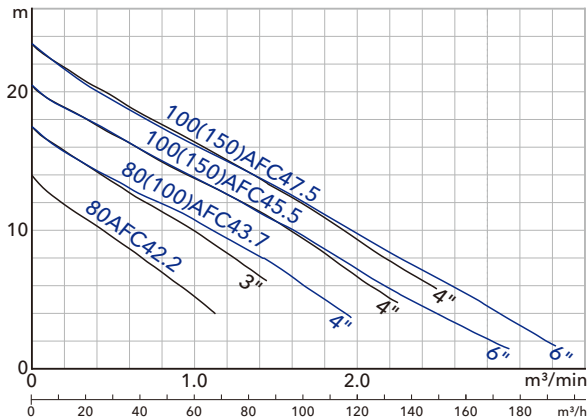
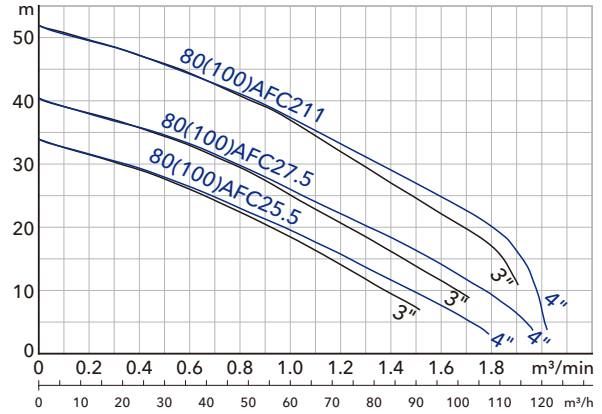
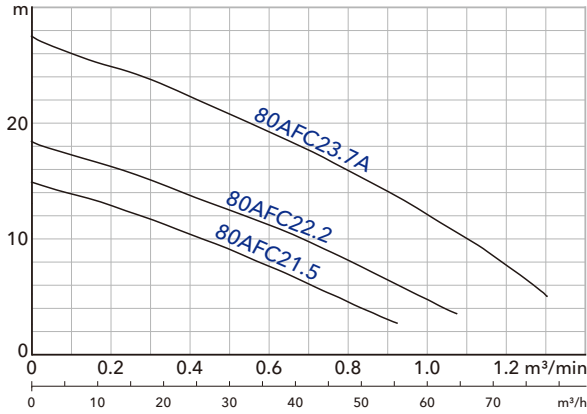


SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Wastewater • Sewage
Type	Frequency 50Hz
	Motor 2P (3000rpm) / 4P (1500rpm) • Dry Motor
	Insulation Class F (2~5HP) • Class H (7.5~15HP)
	Protection IP68
	Protector Auto-cut (2~10HP) • MTS&MS(15HP)
	Bearing Ball Type
	M.seal Double M.seals
Material	Impeller Open
	Upper Cover FC200 / GG-20
	Motor Frame FC200 / GG-20
	Shaft SUS403 / X5Cr13 (2P 2~10HP • 4P 3~5HP) SUS420J2 / X30Cr13 • (2P 15HP • 4P 7.5~10HP)
	M.seal CA/CE & SiC/SiC
	Casing FC200 / GG-20
	Impeller FC200 / GG-20 + Tungsten
	Casing Cover FC200 / GG-20 + Heat (2P) • FCD700 / GGG-70 + Heat (4P)
	Footing FCD450 / GGG-45 (2P) • None (4P)
	Cable VCT or H07RN-F
Optional	Pumps can be customized to fit specifications Floating Switch (2P : 2~3HP)



PERFORMANCE CURVES



C Type Open Impeller and Cutter Casing Cover

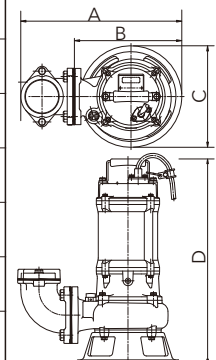
Tungsten carbide edge on the impeller vanes shreds against the inner cutting blades to break down destructible solids to prevent clogging.

Hardened casing cover designed to withstand the abrasion.

PERFORMANCE SPECS.

※ Note : Weight Without Cable & Elbow Set.
Start Method : Y-D = STAR-DELTA

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Methodm	Head m	Standard		Weight kg		Dimensions mm				
						m³/min	m³/h	1Ø	3Ø	A	B	C	D	
													1Ø	3Ø
80AFC21.5	2 (1.5)	3" (80)	1	Capacitor	7.5	0.6	36	37	33	417	275	260	576	521
80AFC22.2	3 (2.2)	3" (80)	1	Capacitor	11	0.6	36	40	35	417	275	260	603	521
80AFC23.7A	5 (3.7)	3" (80)	3	DOL	19	0.6	36	-	48	498	305	290	-	595
80(100)AFC25.5	7.5 (5.5)	3" (80)	3	DOL	26	0.6	36	-	75	565	373	345	-	689
80(100)AFC27.5	10 (7.5)	3" (80)	3	DOL	33	0.6	36	-	81	565	373	345	-	689
80(100)AFC211	15 (11)	3" (80)	3	Y-D/DOL	44	0.6	36	-	91	565	373	345	-	729
80AFC42.2	3 (2.2)	3" (80)	3	DOL	8.5	0.6	36	-	60	557	365	316	-	628
80(100)AFC43.7	5 (3.7)	3" (80)	3	DOL	12.5	0.6	36	-	69	559	366	321	-	687
100(150)AFC45.5	7.5 (5.5)	4" (100)	3	DOL	13.5	1.0	60	-	105	657	435	378	-	767
100(150)AFC47.5	10 (7.5)	4" (100)	3	DOL	16	1.0	60	-	118	657	435	378	-	807





ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS


AFC 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 .



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 vanish procedures to achieve the best insulation, efficiency and durability.



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