

AFC 60Hz 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

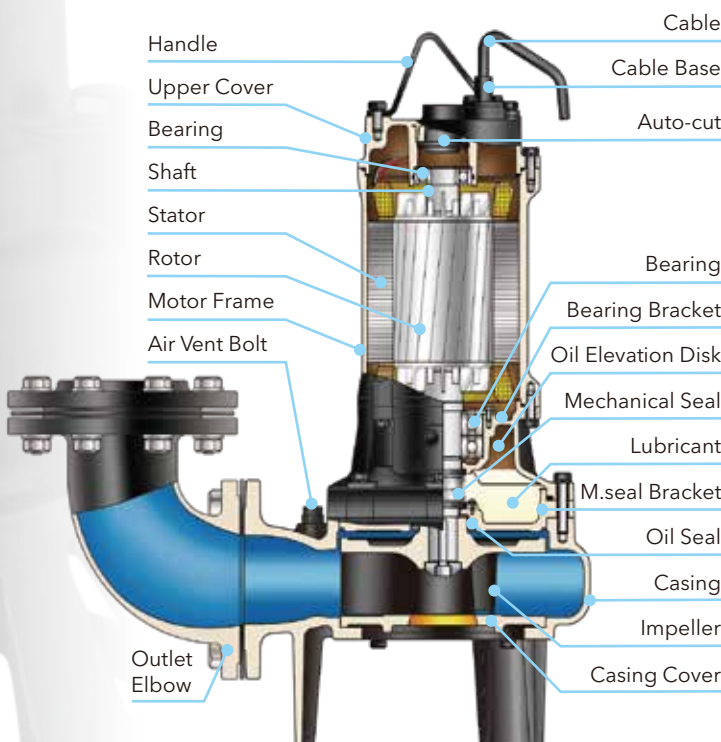
- Drainage of waste water containing debris from factories.
- Sewage management, water accumulation, septic tanks, and or farms.
- Drainage of waste water from attenuation, purifying and sewage tanks in water treatment plant.

PRODUCT NOMENCLATURE

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

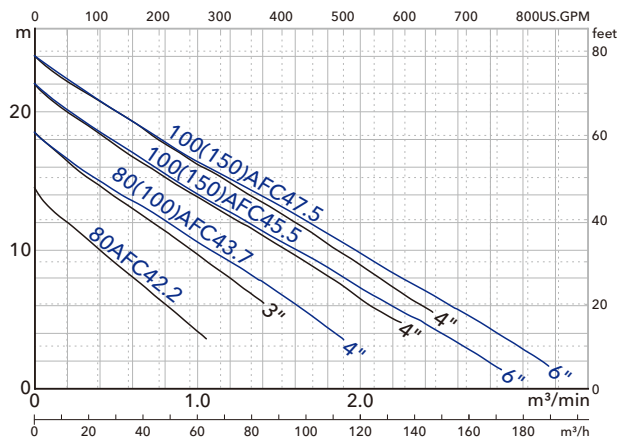
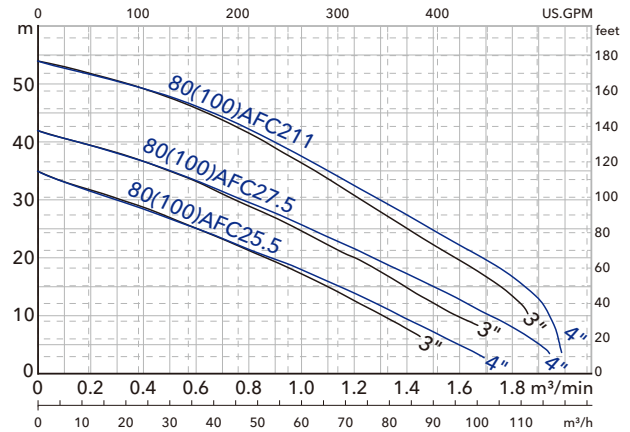
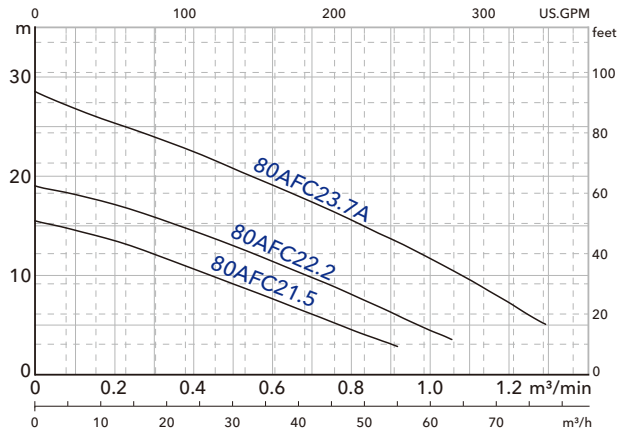
SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Wastewater • Sewage
Type	Frequency 60Hz
	Motor 2P (3600rpm) / 4P (1800rpm) • Dry Motor
	Insulation Class F (2~5HP) • Class H (7.5~15HP)
	Protection IP68
	Protector Auto-cut / MTS / MTS & MS
	Bearing Ball Type
	M.seal Double M.seals
Material	Impeller Open
	Upper Cover FC200 / ASTM-30
	Motor Frame FC200 / ASTM-30
	Shaft SUS403 / ASTM 403 (2P 2~10HP • 4P 3~5HP) SUS420J2 / ASTM 420 F (2P 15HP • 4P 7.5~10HP)
	M.seal CA/CE & SiC/SiC
	Casing FC200 / ASTM-30
	Impeller FC200 / ASTM-30 + Tungsten
	Casing Cover FC200 / ASTM-30 + Heat (2P) • FCD700 / Gr.100-70-03 + Heat (4P)
	Footing FCD450 / Gr.65-45-12 (2P) • None (4P)
	Cable VCT or SJOW/SOW/SOOW
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.

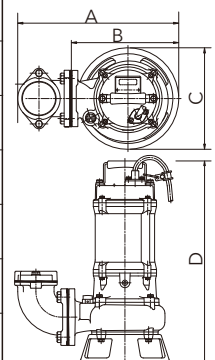
PERFORMANCE SPECS.

※ Note : Weight Without Cable & Elbow Set.

Start Method : Y-D = STAR-DELTA

*External Capacitor : Required external capacitors & start relay.

Model	Output HP(kW)	Discharge Inch(mm)	Phase ∅	Start Methodm	Standard		Weight kg(lb)		Dimensions mm				
					m-m³/min	ft-GPM	1∅	3∅	A	B	C	D	
												1∅	3∅
80AFC21.5	2 (1.5)	3" (80)	1	Capacitor	7.5-0.6	24.6-158	37(82)	33(73)	417	275	260	576	521
			3	DOL									
80AFC22.2	3 (2.2)	3" (80)	1	Capacitor	11-0.6	36.1-158	40(88)	35(77)	417	275	260	603	521
			3	DOL									
80AFC23.7A	5 (3.7)	3" (80)	1	*External Capacitor	19-0.6	62.3-158	53(117)	48(106)	498	305	290	610	595
			3	DOL									
80(100)AFC25.5	7.5 (5.5)	3" (80)	3	DOL	24.5-0.6	80.4-158	-	74(163)	565	373	345	-	689
		4" (100)			18-1.0	59.1-264			596				
80(100)AFC27.5	10 (7.5)	3" (80)	3	DOL	32.5-0.6	106.6-158	-	80(176)	565	373	345	-	689
		4" (100)			25.5-1.0	83.7-264			596				
80(100)AFC211	15 (11)	3" (80)	3	Y-D/DOL	47-0.6	154.2-158	-	90(198)	565	373	345	-	729
		4" (100)			39.5-1.0	129.6-264			596				
80AFC42.2	3 (2.2)	3" (80)	1	*External Capacitor	8-0.6	26.2-158	71(157)	60(132)	557	365	316	683	628
			3	DOL									
80(100)AFC43.7	5 (3.7)	3" (80)	1	*External Capacitor	13-0.6	42.7-158	75(165)	69(152)	559	366	321	707	687
		4" (100)	3	DOL	10.5-1.0	34.5-264			589				
100(150)AFC45.5	7.5 (5.5)	4" (100)	3	DOL	13.5-1.0	44.3-264	-	103(227)	657	435	378	-	767
		6" (150)			10.5-1.5	34.5-395			717				
100(150)AFC47.5	10 (7.5)	4" (100)	3	DOL	16-1.0	52.5-264	-	116(256)	657	435	378	-	807
		6" (150)			13-1.5	42.7-395			717				





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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