



# AFC

SUBMERSIBLE  
CUTTER PUMPS

60Hz

make future flow

# FEATURES

- The C-type Tungsten carbide-edged open impeller enhances shredding power, making it perfect for pumping sewage and breaking/tearing debris.
- 100~150 µm high solids epoxy coating on the casted-iron body prolongs product life for durability.
- Durability is further enhanced by standard accessories: cable with an epoxy resin-sealed, water-resistant cable base, Auto-cut motor protector, double mechanical seals, and oil seal design.



## PRODUCT NOMENCLATURE

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



ELBOW

GRS

## SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	2P (3600rpm) / 4P (1800rpm) • Dry Motor
Insulation	Class F • Class H
Protection	IP68
Protector	Auto-cut / MTS / MTS & MS
M.seal Type	Double M.seals
Impeller Type	Open

Item	Material
Upper Cover	FC200 / ASTM-30
Motor Frame	FC200 / ASTM-30
Shaft	SUS403 / ASTM 403 • SUS420J2 / ASTM 420 F
M.seal	CA/CE & SiC/SiC
Casing	FC200 / ASTM-30
Impeller	FC200 / ASTM-30 + Tungsten
Casing Cover	FC200 / ASTM-30 + Heat • FCD700 / Gr.100-70-03 + Heat
Footing	FCD450 / Gr.65-45-12 • None
Cable	VCT or SJOW/SOW/SOOW

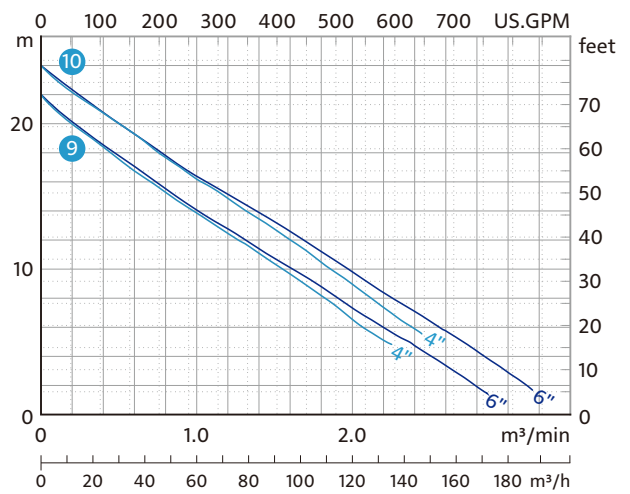
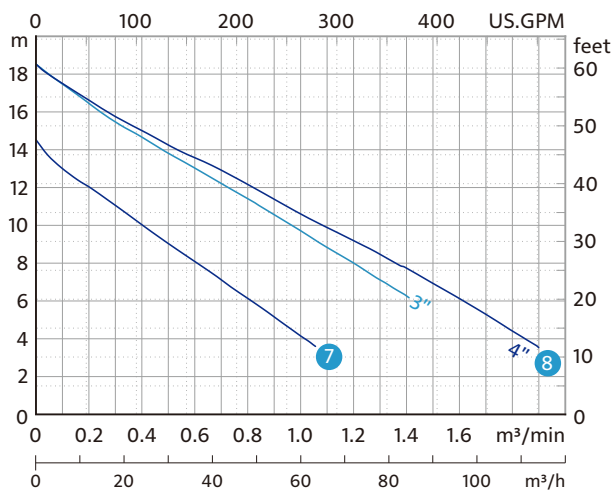
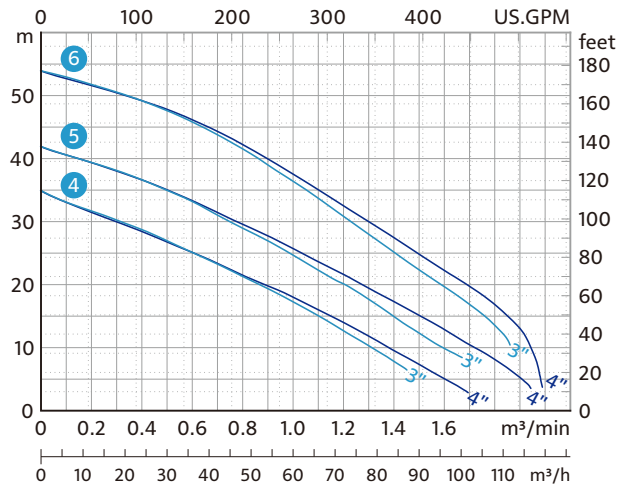
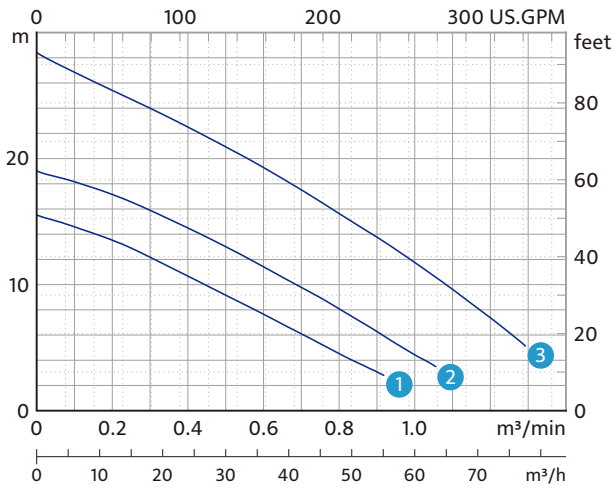
## APPLICATIONS

- Factory water treatment for wastewater containing debris
- Drainage and water extraction for sewage management, water accumulation, septic tanks, and farms
- Water treatment plant drainage: attenuation, purification tanks, and sewage tanks

## 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. The GRS does not support the vertical casing models.

# PERFORMANCE CURVES AND SPECS



Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Casing Type	Weight kg(lb)	
					ft-GPM	ft-GPM		1Ø	3Ø
1 80AFC21.5	2(1.5)	3"(80)	1	Capacitor	24.6-158	50.9-264	H	37(82)	33(73)
			3	DOL					
2 80AFC22.2	3(2.2)	3"(80)	1	Capacitor	36.1-158	62.3-290	H	40(88)	35(77)
			3	DOL					
3 80AFC23.7A	5(3.7)	3"(80)	1	*External Capacitor	62.3-158	93.5-345	H	53(117)	48(106)
			3	DOL					
4 80(100)AFC25.5	7.5(5.5)	3"(80)	3	DOL	80.4-158	114.8-395	H	-	74(163)
		4"(100)			59.1-264	114.8-450			
5 80(100)AFC27.5	10(7.5)	3"(80)	3	DOL	106.6-158	137.8-450	H	-	80(176)
		4"(100)			83.7-264	137.8-515			
6 80(100)AFC211	15(11)	3"(80)	3	Y-D/DOL	147.6-158	177.2-500	H	-	90(198)
		4"(100)			121.4-264	177.2-530			
7 80AFC42.2	3(2.2)	3"(80)	1	*External Capacitor	26.2-158	47.6-290	H	71(157)	60(132)
			3	DOL					
8 80(100)AFC43.7	5(3.7)	3"(80)	1	*External Capacitor	42.7-158	60.7-395	H	75(165)	69(152)
		4"(100)			34.5-264	60.7-500			
9 100(150)AFC45.5	7.5(5.5)	4"(100)	3	DOL	44.3-264	72.2-605	H	-	103(227)
		6"(150)			34.5-395	72.2-765			
10 100(150)AFC47.5	10(7.5)	4"(100)	3	DOL	52.5-264	78.7-660	H	-	116(256)
		6"(150)			42.7-395	78.7-845			

※ Excludes Cable & Elbow Weight.

※ Start Method : Y-D = STAR-DELTA

※ Casing type : V stands for Vertical and H for Horizontal. ※ \*External Capacitor : Required external capacitors & start relay.



# PRODUCT FEATURES



## 1 Epoxy Cable Base

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



## 2 Auto-cut Protector

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



## 3 High Efficiency Dry Motors

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



## 4 Double Mechanical Seals

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



## C Type Open Impeller and Cutter Casing Cover

Tungsten carbide 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.



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YouTube



Selection system



Catalog