AFC

SUBMERSIBLE
CUTTER PUMPS

50Hz

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.
- 70 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.

TAIWAN EXCELLENCE 2022

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 (3000rpm) / 4P (1500rpm) • Dry Motor
Insulation	Class F • Class H
Protection	IP68
Protector	Auto-cut • MTS & MS
M.seal Type	Double M.seals
Impeller Type	Open
Item	**Material**
Upper Cover	FC200 / GG-20
Motor Frame	FC200 / GG-20
Shaft	SUS403 / X5Cr13 • SUS420J2 / X30Cr13
M.seal	CA/CE & SiC/SiC
Casing	FC200 / GG-20
Impeller	FC200 / GG-20 + Tungsten
Casing Cover	FC200 / GG-20 + Heat • FCD700 / GGG-70 + Heat
Footing	FCD450 / GGG-45 • None
Cable	VCT or H07RN-F

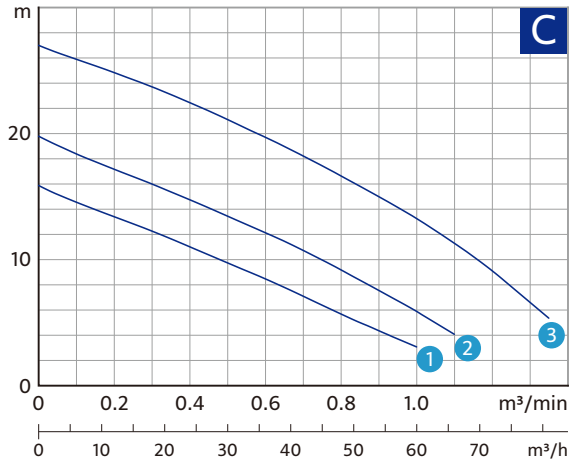
APPLICATIONS

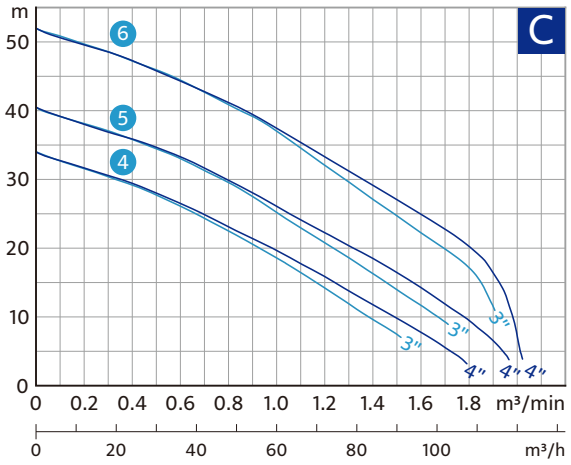
- Factory water treatment for wastewater containing debris
- Drainage and water extraction for sewage management, water accumulation, septic tanks, and farms
- Water treatment plant drainage: attenuation, purification tanks, and sewage tanks

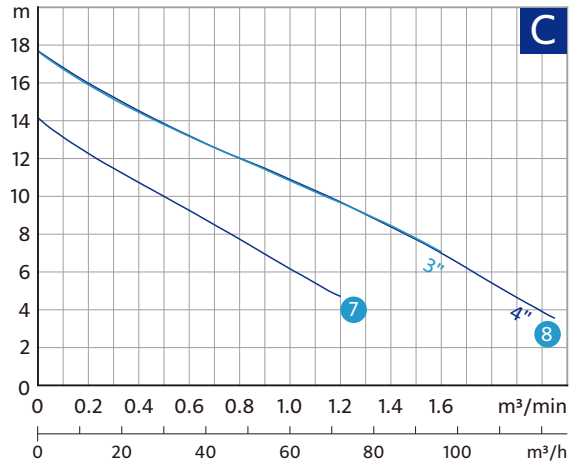
ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS

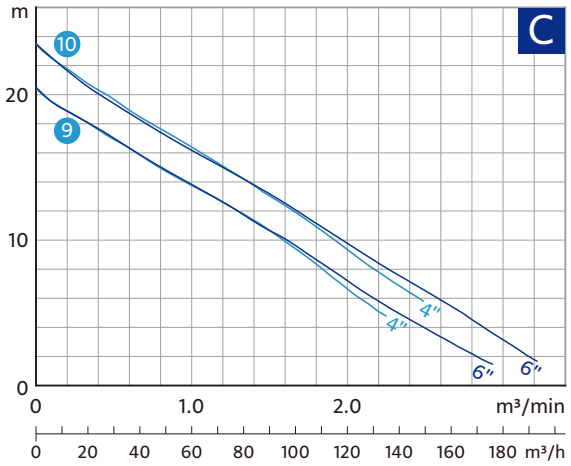
AFC pumps can be installed with 90° Elbow Flange outlet or GRS guide rail system, to have easier/safer installation or removal during replacement and maintenance. The GRS does not support the vertical casing models.

PERFORMANCE CURVES AND SPECS





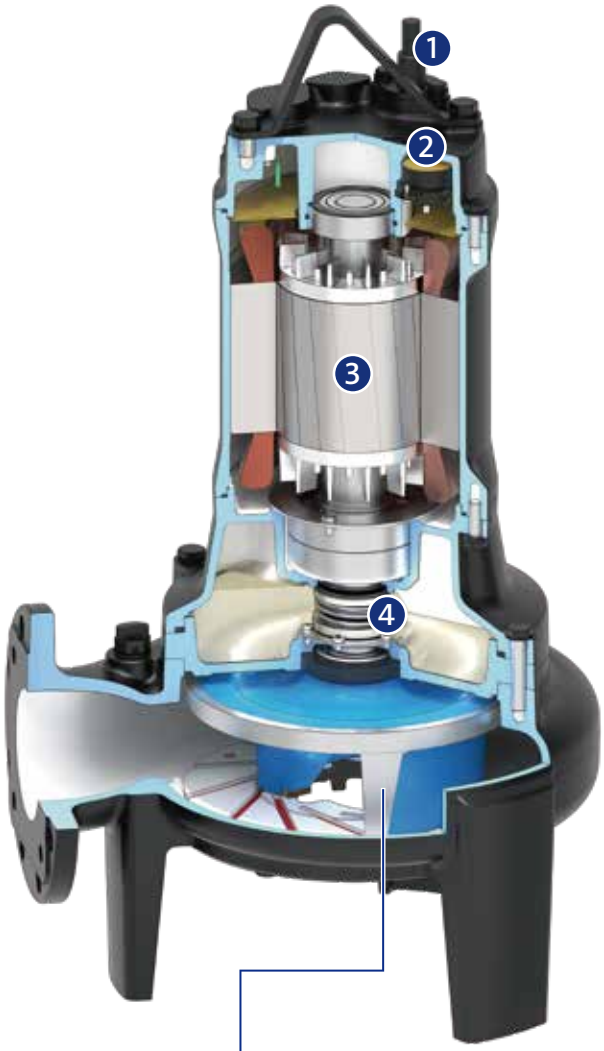




Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Casing Type	Weight kg	
					m-m³/min			1Ø	3Ø
1 80AFC21.5	2(1.5)	3"(80)	1	Capacitor	7.5-0.6	15-1.0	H	37	33
			3	DOL					
2 80AFC22.2	3(2.2)	3"(80)	1	Capacitor	11-0.6	18.5-1.15	H	40	35
			3	DOL					
3 80AFC23.7A	5(3.7)	3"(80)	3	DOL	19-0.6	27.5-1.35	H	-	48
4 80(100)AFC25.5	7.5(5.5)	3"(80)	3	DOL	26-0.6	34-1.55	H	-	75
		4"(100)			19.5-1.0	34-1.8			
5 80(100)AFC27.5	10(7.5)	3"(80)	3	DOL	33-0.6	40.5-1.75	H	-	81
		4"(100)			26-1.0	40.5-2.05			
6 80(100)AFC211	15(11)	3"(80)	3	Y-D/DOL	44-0.6	52-1.95	H	-	91
		4"(100)			37-1.0	52-2.1			
7 80AFC42.2	3(2.2)	3"(80)	3	DOL	8.5-0.6	14-1.2	H	-	60
8 80(100)AFC43.7	5(3.7)	3"(80)	3	DOL	12.5-0.6	17.5-1.5	H	-	69
		4"(100)			10.5-1.0	17.5-2.0			
9 100(150)AFC45.5	7.5(5.5)	4"(100)	3	DOL	13.5-1.0	20.5-2.3	H	-	105
		6"(150)			10.5-1.5	20.5-3.0			
10 100(150)AFC47.5	10(7.5)	4"(100)	3	DOL	16-1.0	23.5-2.5	H	-	118
		6"(150)			13-1.5	23.5-3.2			

※ Excludes Cable & Elbow Weight.
※ Casing type : V stands for Vertical and H for Horizontal.
※ Start Method : Y-D = STAR-DELTA

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 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.

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YouTube

Selection system

Catalog

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