

AFC SERIES

SUBMERSIBLE CUTTER PUMPS

POWER : 2~5HP (1.5~3.7kW)

MAX.HEAD : 95feet (28.5m)

MAX.FLOW : 350US.GPM (1.3m³/min)



PRODUCT NOMENCLATURE

Example :

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

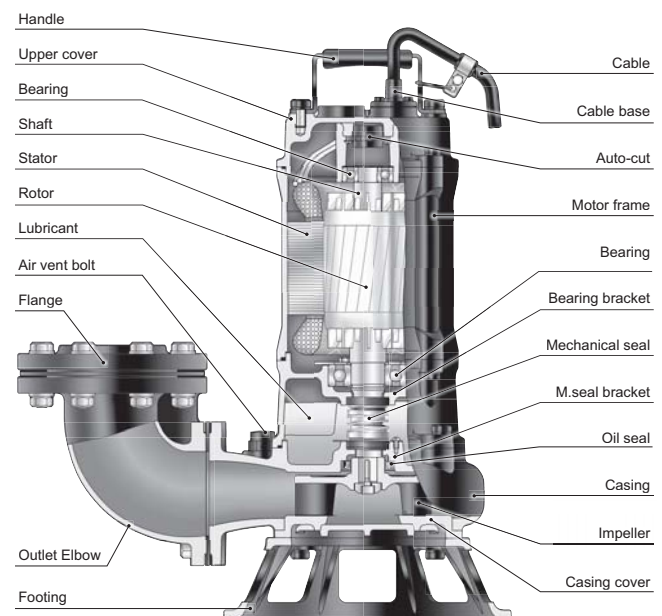
FEATURE

- AFC cutter pumps, with a tungsten carbide edged impeller, are perfect for pumping sewage and breaking/tearing solids in sewage treatment plants.
- International standard design : Epoxy Resin Sealed cable, motor protector, dry-motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- Double Mechanical Seal: Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.
- In order to make sure the highest quality of products, HCP Pump installed professional assembly lines and applied strict quality control measures during the assembly and final product release.
- C type impeller and Cutter casing cover. on the impeller vanes,shreds against the inner cutting blades to break down destructible solids into small pieces to prevent clogging in the pump. The heat hardened casing cover is designed to withstand abrasions.



APPLICATIONS

- Drainage of waste water containing fibrous additives from leather factory, dyeing factory and food processing factory.
- Sewage management, accumulated water, septic tank, stock farm.
- Drainage of waste water from the attenuation tank, purifying tank and sewage tank in water treatment plant.



AFC SERIES SUBMERSIBLE CUTTER PUMPS

80AFC21.5 · 80AFC22.2 · 80AFC23.7A

SPECIFICATIONS

Item	Description	
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	Wastewater · Sewage
Type	Frequency	60Hz
	Motor	2P(3600rpm) · Dry Motor
	Insulation	Class B (5HP:Class F)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Semi-open
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft End	SUS403
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	FC200+Tungsten
	Casing Cover	FC200+Heat
	Footing	FCD450
	Cable	VCT or H07RN-F or SJOW/SOW
Optional	—	



80AFC21.5 · 80AFC22.2



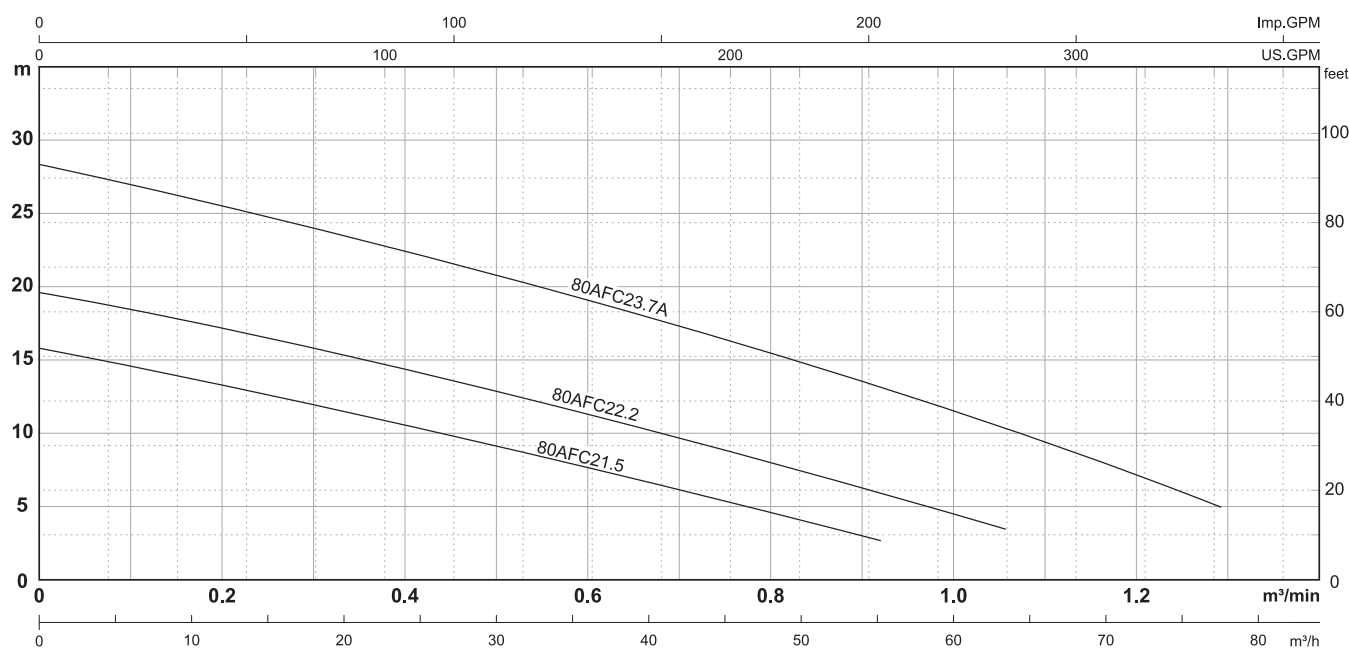
80AFC23.7A



Semi-open Impeller Cutter casing cover

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Max Solid Passage mm(inch)	Weight(W/O Cable)		Phase	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	ft-GPM	m-m³/min	ft-GPM		1Ø-kg(lb)	3Ø-kg(lb)								
80AFC21.5	2(1.5)	3"(80)	7.5-0.6	25-160	15.5-1.0	51-264	62(2 ³ / ₈ "	37(82)	33(73)	Full load Ampere	—	10.0	6.0	6.0	3.4	3.0	2.4
80AFC22.2	3(2.2)	3"(80)	11-0.6	35-160	19-1.1	63-291	62(2 ³ / ₈ "	40(88)	35(77)		—	14.6	8.6	8.4	4.8	4.2	3.4
80AFC23.7A	5(3.7)	3"(80)	19-0.6	63-160	28.5-1.3	95-350	62(2 ³ / ₈ "	—	48(106)		—	—	13.8	13.6	7.8	6.8	5.4

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	H:feet	20'	30'	40'	50'	60'	70'	80'	90'	Q:m³/min	0.1	0.2	0.3	0.4	0.6	0.8	1	1.2
												Q:m³/h	6	12	18	24	36	48	60	72
80AFC21.5	2 (1.5)	3" (80)	Q:US.GPM	186	132	74	12	—	—	—	—	H:m	14.6	13.3	12.0	10.6	7.6	4.6	—	—
80AFC22.2	3 (2.2)	3" (80)		241	193	144	90	29	—	—	—		18.5	17.2	15.8	14.4	11.3	8.0	4.5	—
80AFC23.7A	5 (3.7)	3" (80)		329	294	256	214	171	123	72	17		27.0	25.6	24.0	22.4	19.1	15.5	11.6	7.2