



AF & IF Series

SEWAGE/WASTEWATER SUBMERSIBLE PUMPS

AF Series | 2" - 4" Discharge

MODEL	HP	Disch. Inch	Phase	Max		Solid Size
				Head	Flow	
50AFU2.4	0.5	2	1 & 3	34	75	1.5"
50AFU2.4L	0.5	2	1 & 3	22	80	2"
50AFU4.4	0.5	2	1 & 3	19	84	2"
50AFU2.8	1	2	1 & 3	48	97	1.5"
50AFU2.8L	1	2	1 & 3	34	104	2"
50AFU4.8	1	2	1 & 3	27	109	2"
50AFU21.5	2	2	1 & 3	70	114	1.5"
80AFP21.5	2	3	1 & 3	53	268	1.5"
80AFP41.5	2	3	1 & 3	47	260	2"
80AFU21.5	2	3	1 & 3	53	180	2"
80AFU21.5L	2	3	1 & 3	23	186	3"
80AFU41.5	2	3	1 & 3	29	260	3"
80AFP22.2	3	3	1 & 3	67	296	1.5"
80AFP42.2	3	3	1 & 3	53	300	2"
80AFU22.2	3	3	1 & 3	65	115	2"
80AFU22.2L	3	3	1 & 3	31	228	3"
80AFU42.2	3	3	1 & 3	35	296	3"
80AFE42.2	3	3	1 & 3	39	330	3"
80AFP23.7A	5	3	1 & 3	100	354	1.25"
80AFP43.7	5	3	3	64	408	2"
80AFU23.7LA	5	3	1 & 3	49	296	3"
80AFU23.7A	5	3	1 & 3	81	286	3"
80AFU43.7	5	3	3	47	365	3"



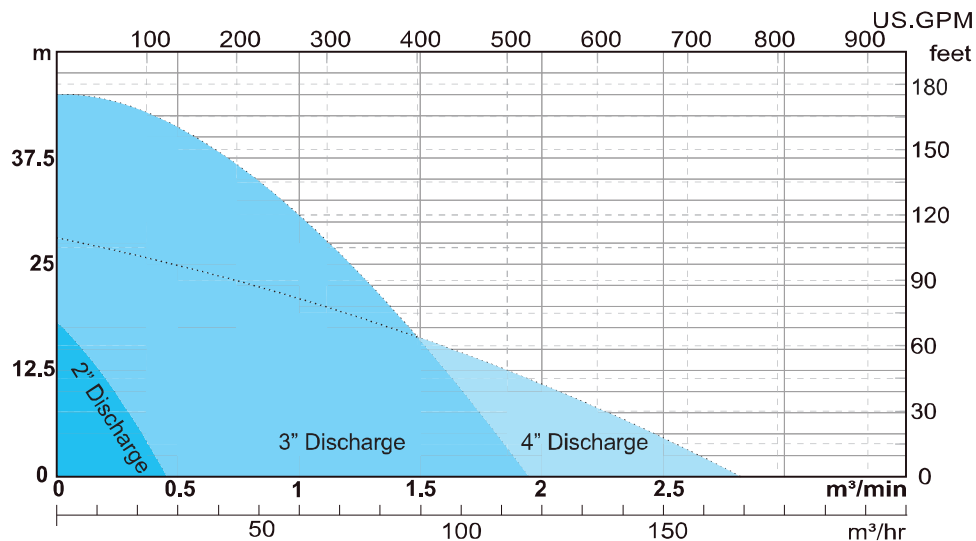
AF-415



Auto-cut Protector

The auto-cut protector is an automatic cut-off switch installed inside the motor. The switch automatically cuts off power to the motor in the event of a power surge or overheating. The switch automatically restarts the motor once the temperature drops to about 60 ~ 70 degree C.

MODEL	HP	Disch. Inch	Phase	Max		Solid Size
				Head	Flow	
80AFE43.7	5	3	3	54	410	3"
80AFP25.5	7.5	3	3	117	405	1.25"
80AFU25.5	7.5	3	3	94	328	3"
80AFU25.5L	7.5	3	3	64	640	3"
80AFP27.5	10	3	3	144	450	1.25"
80AFU27.5	10	3	3	113	365	3"
80AFU27.5L	10	3	3	84	397	3"
80AFP211	15	3	3	178	520	1.25"
80AFU211	15	3	3	137	380	2"
80AFU211L	15	3	3	114	460	3"
100AFE42.2	3	4	3	42	462	3"
100AFE43.7	5	4	3	58	582	3"
100AFU45.5	7.5	4	3	54	575	4"
100AFE45.5	7.5	4	3	76	680	3"
100AFU47.5	10	4	3	64	655	4"
100AFE47.5	10	4	3	85	760	3"
AF-415	15	4	3	110	660	2"



AF-1040



MECHANICAL SEALS

Dual mechanical seals with single spring coiled in oil chamber design, for more flexibility to accommodate misalignment, shaft deflection, and break away shock loading.



EPOXY CABLE BASE

The epoxy resin cable feature will help protect the motor from moisture in the event that the cable has been damaged. This feature could minimize repair costs and prevent critical downtime.

MODEL	HP	Disch. Inch	Phase	Max		Solid Size
				Head	Flow	
AF-610	10	6	3	67	1120	3"
AF-615	15	6	3	85	1460	3"
AF-620	20	6	3	120	1560	3"
AF-815	15	8	3	58	2010	3"
AF-820	20	8	3	75	2360	3"
AF-1030S	30	10	3	97	3075	2.25"
AF-1040	40	10	3	112	3115	2.25"
AF-1050	50	10	3	126	3500	2.25"
AF-1060	60	10	3	135	3525	2.25"
AF-1430	30	14	3	47	5800	5"
AF-1440	40	14	3	55	6450	5"
AF-1650	50	16	3	57	6600	5"
AF-1660	60	16	3	66	7250	5"



P Type Impeller
Semi-open
Single Vane



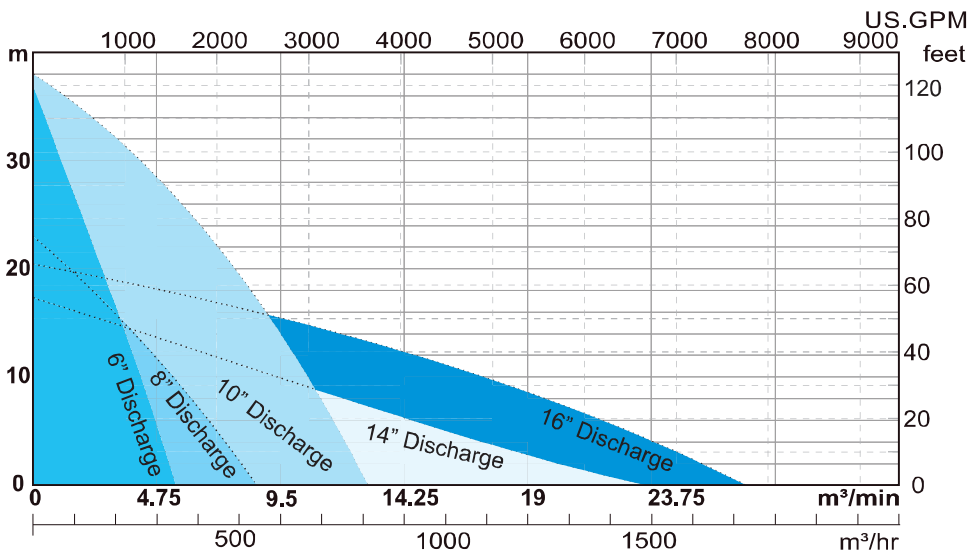
U Type Impeller
Semi-open
Vortex Impeller



P Type Impeller
Semi-open
Two Vane



E Type Impeller
Enclosed-channel
Impeller



AF-610

Electric Motor

A very high efficiency air cooled electric motor designed to minimize operational cost. All HCP electric motors are impregnated with a high quality varnish resin and heat treated in an industrial oven to obtain the highest insulation class available.



Cutter Impeller & Casing Cover

C type impeller and Cutter casing cover shreds against the inner cutting blades to break down destructible solids into small pieces to prevent clogging in the pump. Available on all AFC Models.

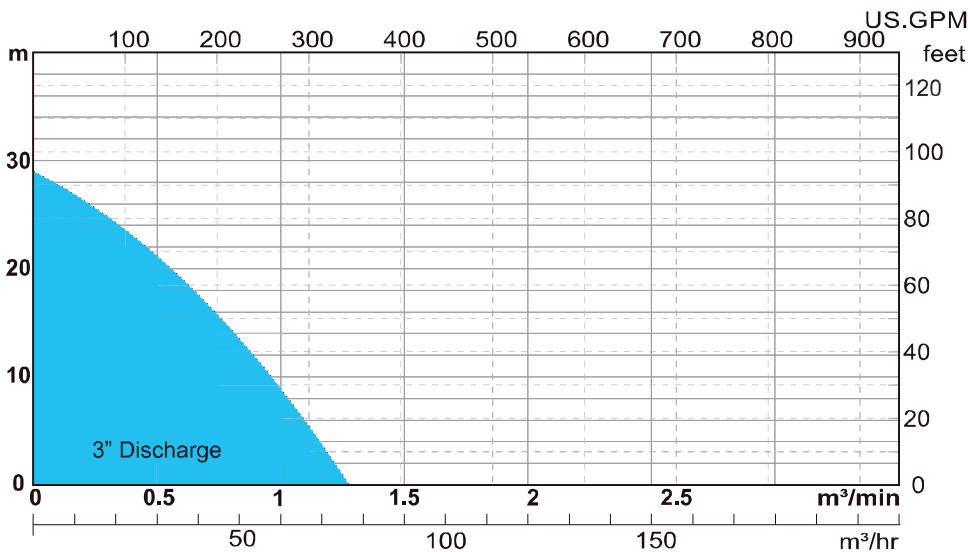


80AFC21.5
80AFC22.2



MODEL	HP	Disch. Inch	Phase	Max		Solid Size
				Head	Flow	
80AFC21.5	2	3	3	52	244	2.5"
80AFC22.2	3	3	3	65	280	2.5"
80AFC23.7A	5	3	3	94	340	2.5"

80AFC23.7A

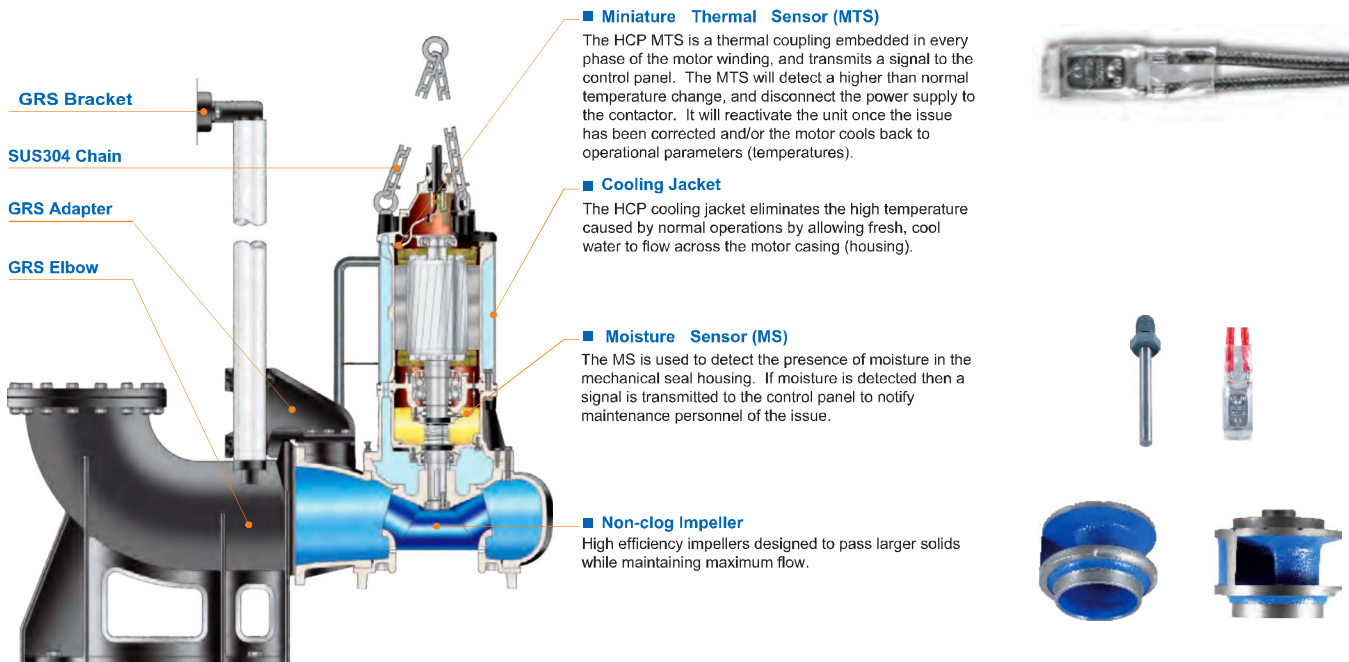
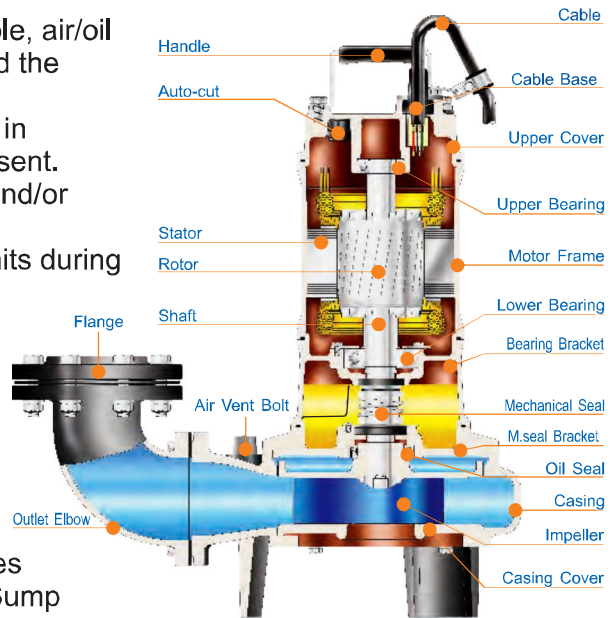


FEATURES

1. International standard design with Industrial grade cable, air/oil cooled motors, solid silicon carbide mechanical seals, and the highest grade and quality cast iron construction available.
2. P/U/E multiple impeller designs capable of performing in sewage applications with solids and fibrous materials present.
3. Full range of pumps capable of meeting higher head and/or higher flow duty points and applications.
4. Epoxy coated surfaces to protect the exterior of the units during the life of operation.

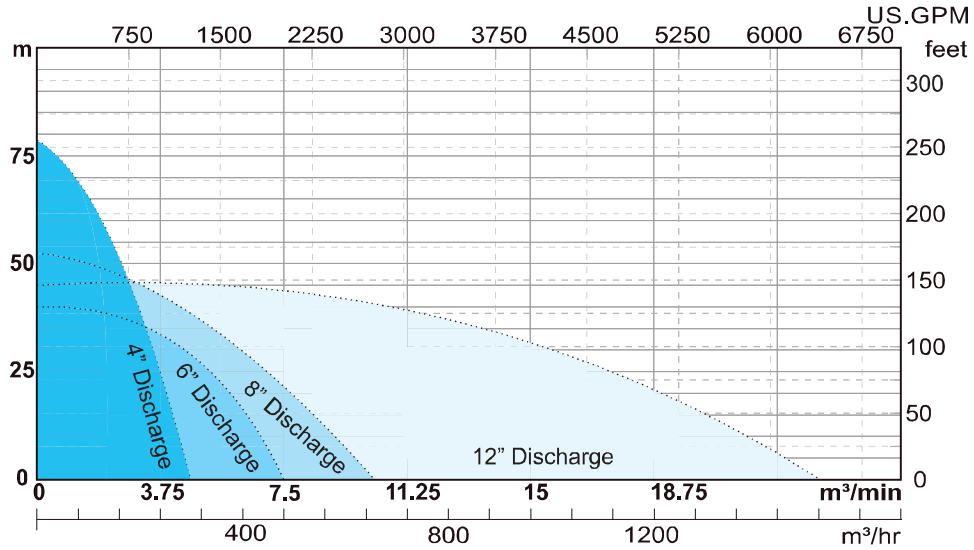
APPLICATIONS

1. **Municipal:** Wastewater treatment plants, wastewater transfer, wastewater lift stations, subdivisions, airports & storm water
2. **Commercial:** Apartments, Hospitals, Wastewater, Building wastewater systems, Motels, Schools, Universities, Amusement parks, Campgrounds & Churches
3. **Industrial:** Stormwater, Wastewater, Spray Wash & Sump



PRODUCT NOMENCLATURE

80 / Discharge mm
AF / Series
P / Impeller Type
2 / Pole
7.5 / kW
IF / Series
4 / Discharge inch
20 / Hp
4 / Pole
250 / Impeller Size(mm)



MODEL	HP	Disch. Inch	Phase	Max		Solid Size
				Head	Flow	
IF410/4-190	10	4	3	57	1050	3"
IF410/4-195	10	4	3	60	1100	3"
IF410/4-220	10	4	3	79	888	3"
IF415/4-215	15	4	3	73	1300	3"
IF415/4-216	15	4	3	78	1200	3"
IF415/4-250	15	4	3	100	1100	3"
IF420/4-235	20	4	3	92	1250	3"
IF420/4-241	20	4	3	96	950	3"
IF420/4-270	20	4	3	120	1300	3"
IF425/4-248	25	4	3	110	1010	3"
IF425/4-271	25	4	3	141	545	3"
IF430/4-300	30	4	3	167	585	3"
IF440/4-335	40	4	3	215	590	3"
IF450/4-355	50	4	3	240	570	3"
IF460/4-366	60	4	3	255	635	3"
IF610/4-191	10	4	3	55	1350	3"
IF615/4-210	15	4	3	65	1475	3"
IF615/6-255	15	4	3	46	1575	3"
IF620/4-228	20	4	3	73	1590	3"

MODEL	HP	Disch. Inch	Phase	Max		Solid Size
				Head	Flow	
IF620/6-279	20	6	3	58	1740	3"
IF630/4-245	30	6	3	105	1675	3"
IF640/4-250	40	6	3	105	2100	3"
IF650/4-268	50	6	3	118	2125	3"
IF660/4-285	60	6	3	130	2150	3"
IF830/4-247	30	8	3	80	2325	3"
IF840/4-269	40	8	3	105	2500	3"
IF850/4-283	50	8	3	110	2200	3"
IF860/4-294	60	8	3	120	2550	3"
IF875/4-307	75	8	3	155	2400	3"
IF8100/4-327	100	8	3	165	2275	3"
IF8125/4-340	125	8	3	170	2250	3"
IF1250/6-302	50	12	3	52	4050	4"
IF1260/6-310	60	12	3	65	4400	4"
IF1275/6-330	75	12	3	69	4600	4"
IF1275/6-400	75	12	3	108	5700	4"
IF12100/6-345	100	12	3	78	5000	4"
IF12100/6-430	100	12	3	125	6450	4"
IF12250/6-470	250	12	3	148	6400	4"

IF Series | 4" - 12" Discharge



Flange



Flange with Bolt Kit



Double Flange Set

Flange & Flange Sets

Cast Iron Construction.
Flange fittings for 3" - 8" discharge.

Threads Available:
PT, PF, NPT



Mercury & Mechanical Floats

Designed for accurate liquid level control in many applications including sewage environments. The float switch can be utilized to signify specific water levels or for direct alarm actuation. Available in 20' and 40' lengths. Mechanical Floats are also available with a 3 prong piggy back plug.

Guide Rail Adapters

Cast Iron Construction.
Available in 3", 4", 6" & 8" flange construction.
Multiple adapters available to fit different manufacturer's base elbows.



GRS (Guide Rail System)

Automatic coupling system designed for submersible pump applications. The HCP GRS provides an easier and safer way to perform routine maintenance and repairs on equipment without the need for personnel to enter the wet well area. The HCP GRS adapter is mounted to the pump discharge then lowered down by stainless steel chains and fasteners to mate to the base elbow.





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PUMPS AND TANKS

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Innovation • Professionalism • Service

HCP PUMPS AMERICA, INC.