



# HCP PUMP

We make the reliable pumps

## PROFESSIONAL MANUFACTURERS OF SUBMERSIBLE PUMPS

50Hz GENERAL CATALOGUE

ISO 9001 CE DQS UL TÜV



sewage pump, waste water pump, stainless pump, grinder pump, dewatering pump, construction drainage pump,  
large volume pump, axial pump, ejector, deep well pump.

### HCP PUMP MANUFACTURER.,CO.LTD.

# FN SEWAGE/EFFLUENT SUBMERSIBLE PUMPS

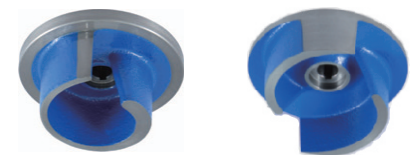
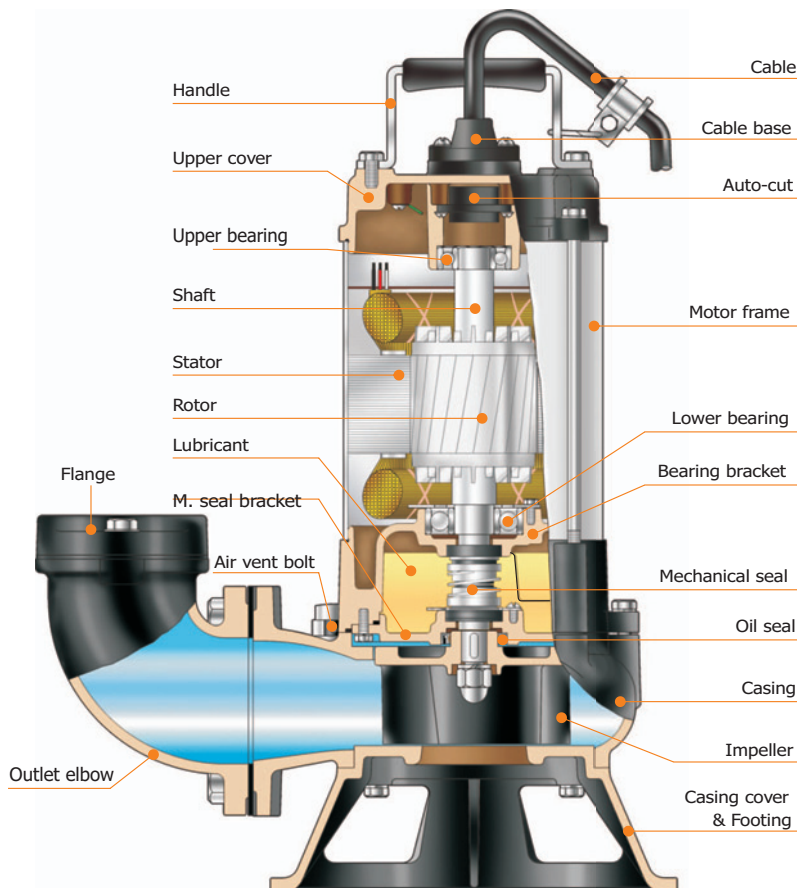


## FEATURE

- A precision manufactured motor is achieved by utilizing the highest standard of quality control. All rotors adopt heat treatment methods for drive shaft assembling, and stator winding impregnated with varnish that is heat dried in an industrial oven. The Water Resistance for Pump can reach IP68 Grade.
- HCP's professional assembly line, complimented with a synthesized production test, ensures the highest level of final pump quality.
- Standard accessories include : cable with an epoxy resin sealed water-resistant cable base, AC thermal motor protector, dual mechanical seals and lip seal design.
- The F-05A is an extremely practical pump, with an oil filled motor and single seal design (CA/CE).

## APPLICATIONS

- Drainage of sewage from the building basements, hotel industry, and waste water from factories.
- Drainage of sewage from industrial process factories.
- Emptying of septic tanks, cesspits and sewage pump stations.
- Pumping surface and drainage water from garages and sprinkler systems



### P Type Impeller

**Semi-open (Single Vane Impeller):**  
Excellent to use with waste materials to prevent from clogging.



### U Type Impeller

**Semi-open (Vortex Impeller):**  
Produces a vortex (whirlpool effect) allowing long fibrous materials and other solid waste to pass through, without contact with the impeller

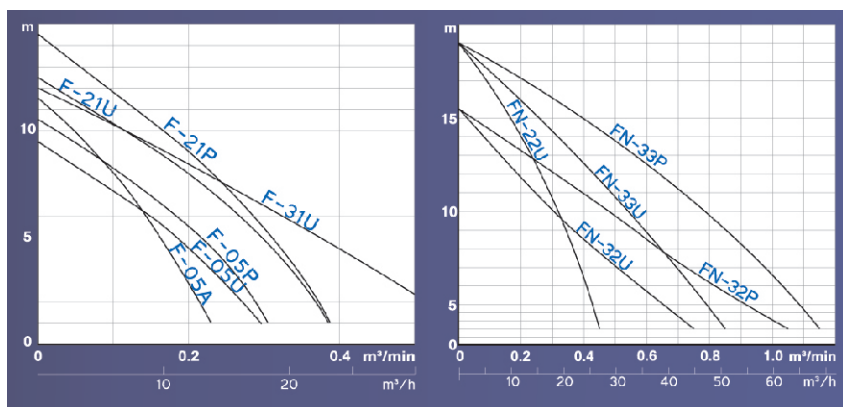
Note: The vortex impeller will cause higher amperage when operated in reverse direction.



## ■ PRODUCT NOMENCLATURE

F	-	05		A
Type		HP		Style
FN	-	2	1	P
Type		Discharge inch	HP	Impeller type (P/U)

## ■ PERFORMANCE CURVES

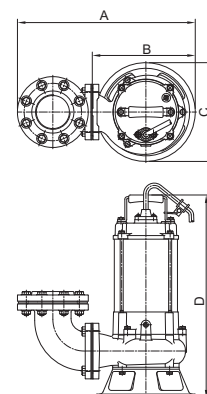


## ■ SPECIFICATIONS

Discharge (mm)		<b>50 • 80</b>
Limits Of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	General wastewater Sewage water and industrial waste
	Submersion Depth	30m (100feet)
Type	Frequency	50Hz
	Motor	2P (3000RPM) • Dry Motor (F-05A: Oil Motor)
	Insulation	Class B
	Protection	IP68
	Protector	Auto-cut (F-05A 3Ø: none, F-05A/U 1Ø: Overheat)
	Bearing	Ball Type
	M.seal	Double M.seals (F-05A: Single M.seal)
Material	Impeller	Semi-open
	Upper Cover	FC-200
	Motor Frame	SUS304
	Shaft End	SUS410(0.5~1HP) • SUS403 (2~3HP)
	M.seal	Upper: Carbon/Ceramic Lower: Silicon/Silicon (F-05A: Carbon/Ceramic)
	Casing	FC-200
	Impeller	FC-200 (F-05A: PA)
Cable	VCT or H07RN-F or SJOW/SOW	
Optional	Pumps can be customized to fit specifications	

## ■ SPECIFICATIONS

	Model	HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head (m)	Capacity		Solid Passage (mm)	Weight (kg)		Dimension (mm)				
							m³/min	m³/h		1Ø	3Ø	A	B	C	D	
U type	F-05A	½ (0.4)	2" (50)	1	Capacitor	8	0.1	6	10	12	11	226	161	352	350	
	F-05U	½ (0.4)	2" (50)	3	Direct	6	0.15	9	35	16	15	237	154	427	427	
	F-21U	1 (0.75)	2" (50)	1	Capacitor	8	0.2	12	35	17	16	237	154	427	427	
	F-31U	1 (0.75)	3" (80)	3	Direct	6.5	0.3	18	30	18	17	278	173	457	457	
	* FN-22U	2 (1.5)	2" (50)	1	Capacitor	14	0.2	12	35	30	25	288	202	546	477	
	* FN-32U	2 (1.5)	3" (80)	3	Direct	8.5	0.4	24	50	32	28	402	260	202	588	519
P type	* FN-33U	3 (2.2)	3" (80)	1	Capacitor	12.5	0.4	24	50	35	30	402	260	202	588	519
	F-05P	½ (0.4)	2" (50)	3	Direct	5.5	0.2	12	22	16	15	276	235	460	460	
	F-21P	1 (0.75)	2" (50)	1	Capacitor	9	0.2	12	26	18	17	276	235	460	460	
	* FN-32P	2 (1.5)	3" (80)	3	Direct	8.5	0.6	36	35	34	30	417	275	260	590	521
	* FN-33P	3 (2.2)	3" (80)	1	Capacitor	12.5	0.6	36	35	37	32	417	275	260	602	521
				3	Direct											



Note: Weight Without Cable & Elbow Set

Note: 3Phase U type Vortex impeller will cause higher amperage when operated in reverse direction

\*New Type