




ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS

Pump can be installed with 90° Elbow with Flange outlet or GRS quick coupling system, for quick and safer for installation, removal, replacement and maintenance purpose.




PRODUCT FEATURES




Epoxy Cable Base

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



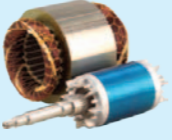
Double Mechanical Seals

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



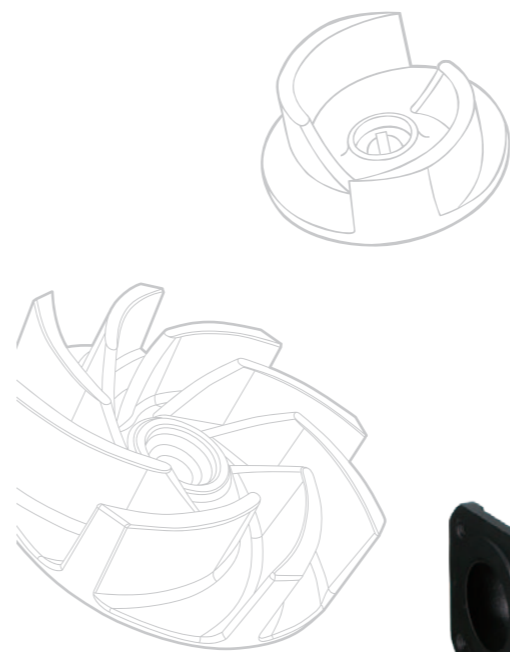
Auto-cut Protector

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



High Efficiency Dry Motors

All stator coils need to be treated with insulating varnish procedure to achieving the best insulation, efficiency and durability.



F/FN **50Hz** SERIES
 SUBMERSIBLE SEWAGE EFFLUENT PUMPS

HCP PUMP Professionalism • Innovation • Service • Commitment
HCP PUMP MANUFACTURER CO., LTD.
www.hcppump.com.tw



Distributor:

DFNEN5-1608

We reserve the right to alter specifications of product at any time without giving prior notice.



FN

FEATURES

- 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 pump quality.
- Standard accessories include : cable with an epoxy resin sealed water-resistant cable base, Auto-cut Protector, dual mechanical seals and lip seal design.

P Type Impeller
Semi-open(Single or Two Vane):

Excellent to use with waste materials to prevent from clogging.

U Type Impeller
Semi-open (Vortex Impeller):

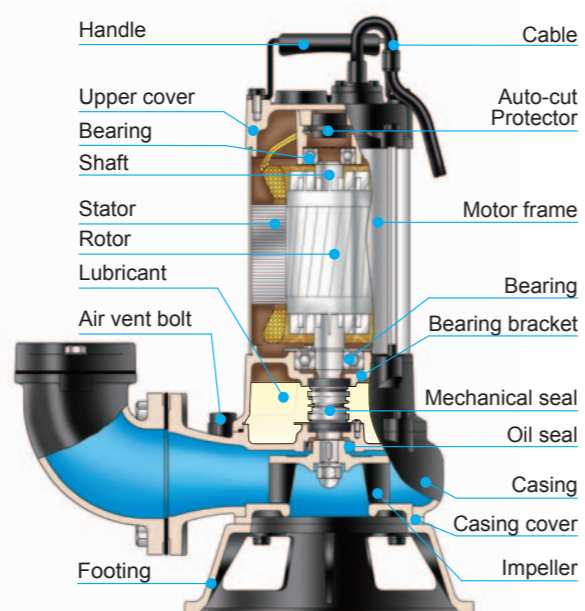
Produces a vortex (whirlpool effect) allowing long fibrous materials and other solid waste to pass through, without contact with the impeller.

APPLICATIONS

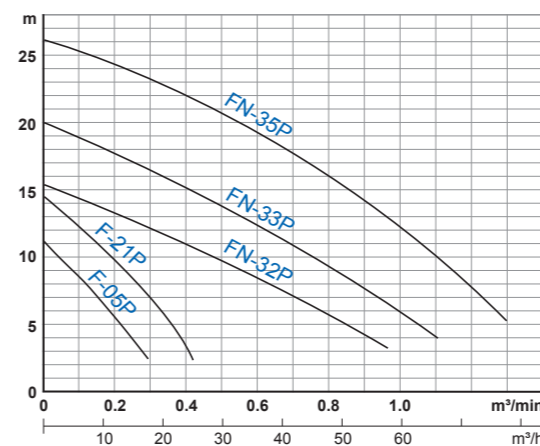
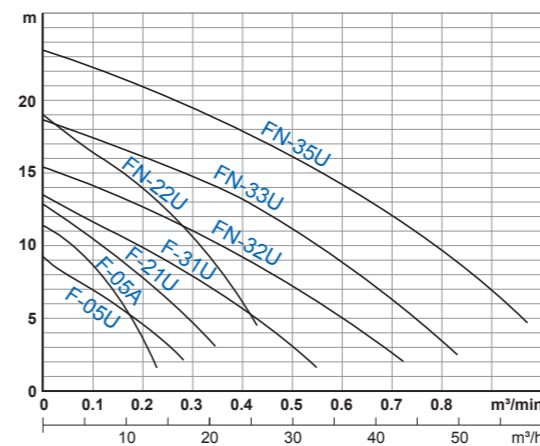
- Drainage of sewage from the building basements, hotel industry, and waste water from factories.
- Drainage of sewage from industrial process factories.
- Emptying of septic tanks, cesspits and sewage pump stations.
- Pumping surface and drainage water from garages and sprinkler systems.

PRODUCT NOMENCLATURE

F/ FN	-	3	2	P
Type	-	Discharge inch	HP	Impeller type (P/ U)



PERFORMANCE CURVES



SPECIFICATIONS

Item	Description
Limits Of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications General wastewater • Sewage water and Industrial waste
Type	Frequency 50Hz
	Motor 2P (3000rpm) • Dry Motor (F-05A: Oil Motor)
	Insulation Class B(0.5HP~3HP) • Class F(5HP)
	Protection IP68
	Protector Auto-cut Protector (F-05A/05U/05P 1Ø: Thermal)
Material	Bearing Ball Type
	M.seal Double M.seals (F-05A: Single M.seals)
	Impeller Semi-open
	Upper Cover FC200
	Motor Frame SUS304
	Shaft SUS410(0.5~1HP) • SUS403 (2~5HP)
	M.seal Upper: Carbon/Ceramic Lower: Silicon/Silicon (F-05A: Carbon/Ceramic)
	Casing FC200
	Impeller FC200 (F-05A: PA)
	Cable VCT or H07RN-F or SJOW/SOW
Optional Pumps can be customized to fit specifications	

PERFORMANCE SPECS.

Note: Weight Without Cable & Elbow Set.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimensions mm					
						m³/min	m³/h		1Ø	3Ø	A	B	C	D		
U Type	F-05A	0.5 (0.4)	2" (50)	1	Capacitor	8	0.1	6	10	12	-	225	-	161	349	-
	F-05U	0.5 (0.4)	2" (50)	1/3	Capacitor Direct	6	0.15	9	35	16	15	237	-	154	425	425
	F-21U	1 (0.75)	2" (50)	1/3	Capacitor Direct	8	0.2	12	35	17	16	237	-	154	425	425
	F-31U	1 (0.75)	3" (80)	1/3	Capacitor Direct	6.5	0.3	18	30	18	17	278	-	173	456	456
	FN-22U	2 (1.5)	2" (50)	1/3	Capacitor Direct	14	0.2	12	35	30	25	288	-	202	546	477
	FN-32U	2 (1.5)	3" (80)	1/3	Capacitor Direct	8.5	0.4	24	50	32	28	402	260	202	588	519
	FN-33U	3 (2.2)	3" (80)	1/3	Capacitor Direct	12.5	0.4	24	50	35	30	402	260	202	600	519
FN-35U	5 (3.7)	3" (80)	3	Direct	16.5	0.5	30	50	-	33	453	260	202	-	539	
P Type	F-05P	0.5 (0.4)	2" (50)	1/3	Capacitor Direct	5.5	0.2	12	22	16	15	276	238	235	459	459
	F-21P	1 (0.75)	2" (50)	1/3	Capacitor Direct	9	0.2	12	26	18	17	276	-	235	459	459
	FN-32P	2 (1.5)	3" (80)	1/3	Capacitor Direct	8.5	0.6	36	35	34	30	417	275	260	590	521
	FN-33P	3 (2.2)	3" (80)	1/3	Capacitor Direct	12.5	0.6	36	35	37	32	417	275	260	602	521
	FN-35P	5 (3.7)	3" (80)	3	Direct	19	0.6	36	35	-	35	468	275	260	-	541

