







FN-22U

FN-22UI



FN-32/33/35U

FN-32/33/35UL







F-31U



* Optional: Vertical casing

F/FN

FEATURES

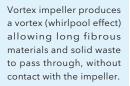
F-05A

- U/P Type impellers are designed to meet the various different operating ranges in wastewater applications.
- F/FN UL Type Non-clog models, capable passing larger solid.
- Optional casing: The FN-32/33U and FN-32/33P models have vertical casing available.
- HCP's professional assembly line, complimented with a synthetic production test to ensure each IP68 motor with highest level of final pump quality.
- Oil Elevation Disk design in the oil chamber to ensure the mechanical seals lubrication and to extend the service life of pump.
- Standard accessories include: cable with an epoxy resin sealed waterresistant cable base, Auto-cut Protector, double mechanical seals, Food grade lubricant and oil seal design.

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.









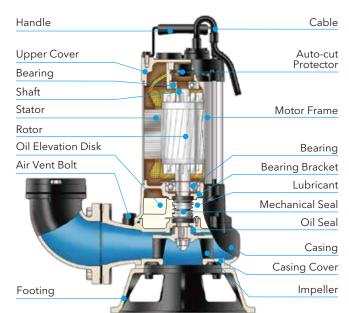
Open impeller (Single or Two Vanes) design. Impeller is excellent to use for waste materials to prevent clogging.

SPECIFICATIONS

	ltem	Description				
	Liquid Temp.	0~40°C (32~104°F)				
Limits Of Use	Applications	General wastewater • Sewage and Industrial water				
	Frequency	50Hz				
	Motor	2P (3000rpm) • Dry Motor (F- 05A : Oil Motor)				
	Insulation	Class B (0.5~1HP) • Class F (2~5HP)				
T	Protection	IP68				
Туре	Protector	Auto-cut (0.5HP 1Ø : Thermal)				
	Bearing	Ball Type				
	M.seal	Double M.seals (F-05A : Single M.seals)				
	Impeller	Vortex • Open				
	Upper Cover	FC200 / GG-20				
	Motor Frame	SUS304 / X5CrNi18-10				
	Shaft	SUS410 / X10Cr13 (0.5~1HP) • SUS403 / X5Cr13 (2~5HP)				
Material	M.seal	CA/CE & SiC/SiC (F-05A : CA/CE)				
	Casing	FC200 / GG-20				
	Impeller	FC200 / GG-20 (F-05A : PA)				
	Cable	VCT or H07RN-F				
	Optional	Pumps can be customized to fit specifications Floating Switch (2P : 0.5~3HP)				

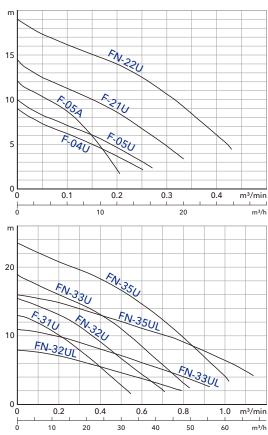
PRODUCT NOMENCLATURE

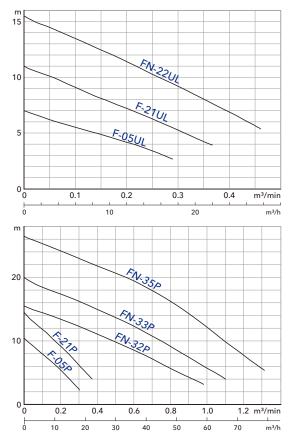
FN -	_ 3	2	U	L
Туре	Discharge	Discharge HP Imp		Larger solid handling
	inch		(U/P)	





PERFORMANCE CURVES





PERFORMANCE SPECS.

※ Note: Weight Without Cable & Elbow Set. Casing type:V stands for Vertical and H for Horizontal.

	TEM OMNANCE STECS.							C	Casing type:V stands for Vertical and H for Horizontal.			
	Model Up(1)		Discharge	Discharge Phase	Start	Head	Standard		Solid Passage	Casing	Weight kg	
	Model	HP(kW)	Inch(mm)	Ø	Method	m	m³/min	m³/h	mm	Туре	1Ø	3Ø
U Type	F-05A	0.5 (0.4)	2" (50)	1	Capacitor	8	0.12	7.2	10	V	12	-
	F-04U	0.5 (0.4)	2" (50)	1	Capacitor	5	0.15	9	35	V	15	-
	F-05U	0.5 (0.4)	2" (50)	3	Capacitor DOL	6	0.15	9	35	V	16	15
	F-21U	1 (0.75)	2" (50)	1	Capacitor DOL	8	0.2	12	35	V	17	16
	F-31U	1 (0.75)	3" (80)	1	Capacitor DOL	7	0.3	18	30	V	18	17
	F-05UL	0.5 (0.4)	2" (50)	1	Capacitor DOL	4	0.2	12	50	V	17	16
	F-21UL	1 (0.75)	2" (50)	1	Capacitor DOL	6	0.25	15	50	V	18	17
	FN-22U	2 (1.5)	2" (50)	1 3	Capacitor DOL	14	0.2	12	35	V	30	25
	FN-32U	2 (1.5)	3" (80)	<u>1</u> 3	Capacitor DOL	8.5	0.4	24	50	H/V	32	28
	FN-33U	3 (2.2)	3" (80)	1 3	Capacitor DOL	12.5	0.4	24	50	H/V	35	30
	FN-35U	5 (3.7)	3" (80)	3	DOL	16.5	0.5	30	50	Н	1	33
	FN-22UL	2 (1.5)	2" (50)	1 3	Capacitor DOL	10	0.25	15	50	V	31	26
	FN-32UL	2 (1.5)	3" (80)	1 3	Capacitor DOL	4.5	0.5	30	76	Н	35	30
	FN-33UL	3 (2.2)	3" (80)	3	Capacitor DOL	7	0.5	30	76	Н	37	32
	FN-35UL	5 (3.7)	3" (80)	3	DOL	11	0.6	36	76	Н	-	35
PType	F-05P	0.5 (0.4)	2" (50)	1 3	Capacitor DOL	5.5	0.2	12	22	V	16	15
	F-21P	1 (0.75)	2" (50)	1 3	Capacitor DOL	9	0.2	12	26	V	20	19
	FN-32P	2 (1.5)	3" (80)	1 3	Capacitor DOL	8.5	0.6	36	35	H/V	34	30
	FN-33P	3 (2.2)	3" (80)	1 3	Capacitor DOL	12	0.6	36	35	H/V	37	32
	FN-35P	5 (3.7)	3" (80)	3	DOL	19	0.6	36	35	Н	-	35



ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS

F/FN 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.

PRODUCT FEATURES



Epoxy Cable Base

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



Auto-cut Protector

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



ELBOW



Doul

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High Efficiency Dry Motors

All stator coils are treated with insulating vanish procedures to achieve the best insulation, efficiency and durability.



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