



# FN

SUBMERSIBLE SEWAGE  
EFFLUENT PUMPS

60Hz

make future flow

# FEATURES

- The FN Series Submersible Sewage Effluent Pumps are designed to handle and meet the needs of a wide range of wastewater applications.
- The FN-UL non-clogging models are made to handle larger solids.
- Optional casing: The FN-32/33U and FN-32/33P models have vertical casing available, and the FN-21P has a horizontal casing available.
- The FN-32U/33U models can handle a maximum of 50mm solid passage, and the FN-32P/33P models can handle a maximum of 35mm solid passage.

## PRODUCT NOMENCLATURE

FN	—	3	2	U	L
Type	Discharge	HP	Impeller type	Larger solid	handling
	inch		(U/P)		



ELBOW

GRS

※ Optional Vertical casing

## SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	2P (3600rpm) • Dry Motor
Insulation	Class B • Class F
Protection	IP68
Protector	Thermal • Auto-cut
M.seal Type	Single M.seals • Double M.seals
Impeller Type	Vortex (U) • Open (P)
Item	Material
Upper Cover	FC200 / ASTM-30
Motor Frame	SUS304 / AISI 304
Shaft	SUS410 / ASTM 410 • SUS403 / ASTM 403
M.seal	CA/CE • CA/CE & SiC/SiC
Casing	FC200 / ASTM-30
Impeller	PA+G50 • FC200 / ASTM-30
Footing	FCD450 / Gr.65-45-12
Cable	VCT or SJOW/SOW

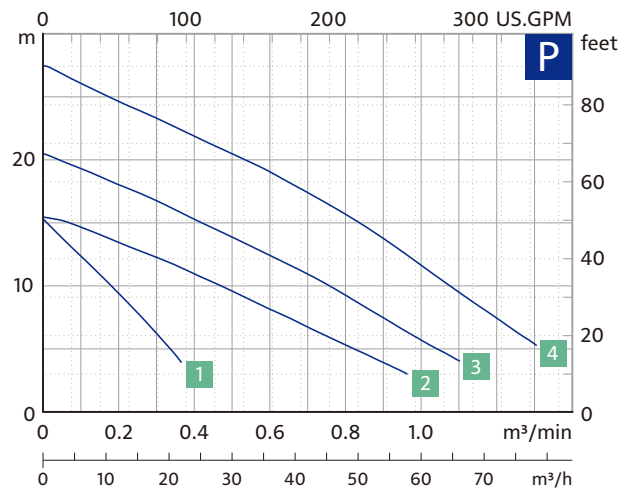
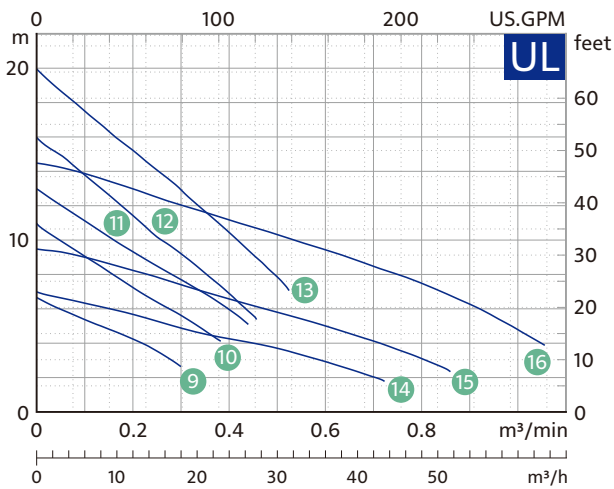
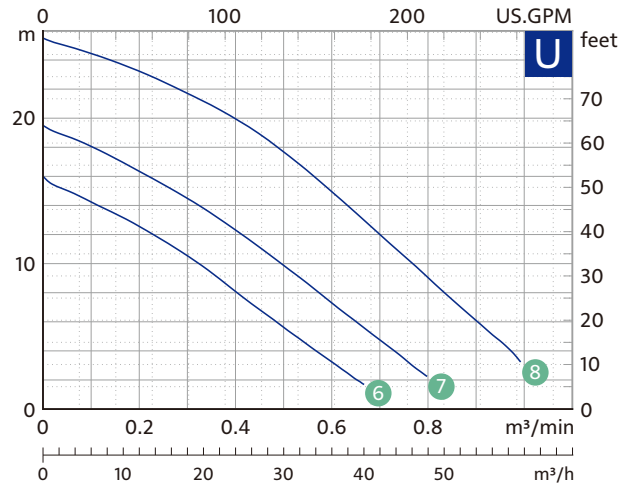
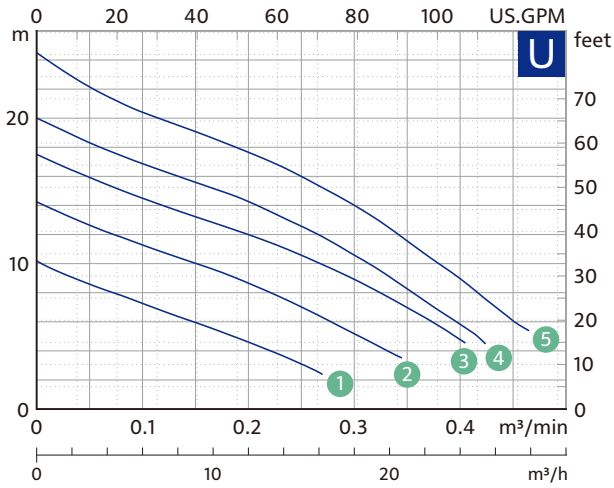
## APPLICATIONS

- Building, hotel, and industrial factory sewage drainage
- Drainage of flooded basement, garage, and factory wastewater
- Emptying of septic tanks, cesspits, and sewage pump stations
- Pumping for sprinkler systems
- Surface water dewatering

## ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS

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.

# PERFORMANCE CURVES AND SPECS



Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm(inch)	Casing Type	Weight kg(lb)	
					ft-GPM	ft-GPM			1Ø	3Ø
1 FN-2.5U	0.5(0.4)	2" (50)	1	Capacitor	19.7-40	32.8-72	35(1 3/8")	V	14(31)	13.5(30)
2 FN-21U	1(0.75)	2" (50)	1	Capacitor	27.9-52	45.9-90	35(1 3/8")	V	16(35)	15(33)
3 FN-21.5U	1.5(1.1)	2" (50)	1	Capacitor	36.1-60	57.4-106	35(1 3/8")	V	18.5(41)	16.5(36)
4 FN-22U	2(1.5)	2" (50)	1	Capacitor	45.9-52	65.6-118	35(1 3/8")	V	30(66)	25(55)
5 FN-23U	3(2.2)	2" (50)	1	Capacitor	57.4-52	80.4-124	35(1 3/8")	V	32(71)	27(60)
6 FN-32U	2(1.5)	3" (80)	1	Capacitor	26.2-106	52.5-185	50(2")	H/V	32(71)	28(62)
7 FN-33U	3(2.2)	3" (80)	1	Capacitor	39.4-106	64-212	50(2")	H/V	35(77)	30(66)
8 FN-35U	5(3.7)	3" (80)	3	DOL	55.8-132	83.7-264	50(2")	H	-	33(73)
9 FN-2.5UL	0.5(0.4)	2" (50)	1	Capacitor	13.1-58	21.3-80	50(2")	V	14.5(32)	14(31)
10 FN-21UL	1(0.75)	2" (50)	1	Capacitor	19.7-74	36.1-100	50(2")	V	16.5(36)	15.5(34)
11 FN-21.5UL	1.5(1.1)	2" (50)	1	Capacitor	24.6-80	42.7-116	50(2")	V	19(42)	17(37)
12 FN-22UL	2(1.5)	2" (50)	1	Capacitor	32.8-66	52.5-122	50(2")	V	31(68)	26(57)
13 FN-23UL	3(2.2)	2" (50)	1	Capacitor	45.9-66	65.6-140	50(2")	V	33(73)	28(62)
14 FN-32UL	2(1.5)	3" (80)	1	Capacitor	11.5-132	23-198	76(3")	H	35(77)	31(68)
15 FN-33UL	3(2.2)	3" (80)	1	Capacitor	18.0-132	31.2-238	76(3")	H	37(82)	33(73)
16 FN-35UL	5(3.7)	3" (80)	3	DOL	31.2-158	47.6-275	76(3")	H	-	35(77)
1 FN-21P	1(0.75)	2" (50)	1	Capacitor	27.9-64	45.9-90	22(7/8")	H/V	19.5(43)/19(42)	18.5(41)
2 FN-32P	2(1.5)	3" (80)	1	Capacitor	26.2-158	50.9-264	35(1 3/8")	H/V	34(75)	30(66)
3 FN-33P	3(2.2)	3" (80)	1	Capacitor	39.4-158	67.3-290	35(1 3/8")	H/V	37(82)	32(71)
4 FN-35P	5(3.7)	3" (80)	3	DOL	60.7-158	90.2-355	35(1 3/8")	H	-	35(77)

※ Excludes Cable & Elbow Weight.

※ Casing type : V stands for Vertical and H for Horizontal.



# PRODUCT FEATURES



## 1 Epoxy Cable Base

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



## 2 Auto-cut Protector

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



## 3 High Efficiency Dry Motors

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



## 4 Double Mechanical Seals

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



## U Type Vortex Impeller

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



## P Type Open Impeller

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



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YouTube



Selection system



Catalog