

PN

The PN-series is one of the Tsurumi VANCS-series. Being made of stainless steel and special resin, the pump is not only lightweight but corrosion-resistant as well. The semi-vortex pump design with moderate impeller passage provides efficient performance for versatile applications.

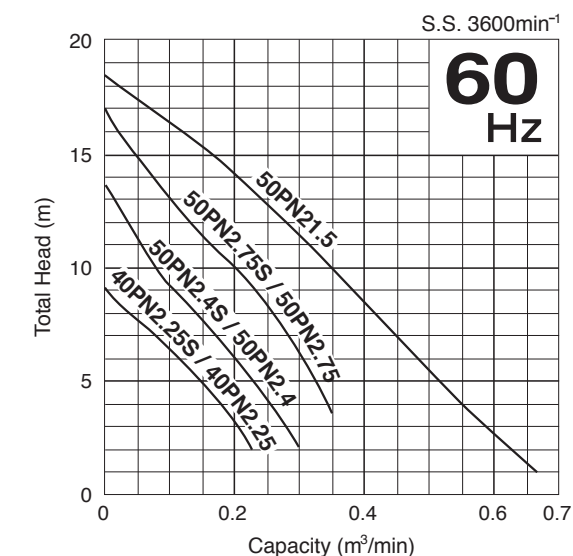
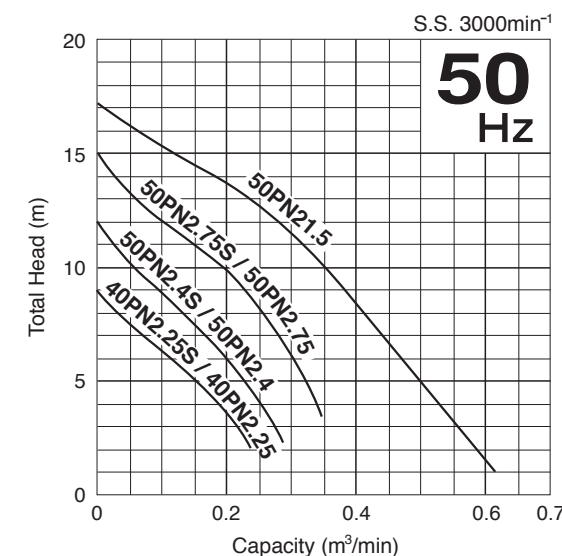


Standard Automatic

Major Standard Specifications

Discharge Bore	mm	40	50	
Pumping Fluid	Type of Fluid	Wastewater and Effluent		
	Fluid Temperature	0 to 40°C		
Pump	Structure	Impeller	Vortex Impeller	
		Shaft Seal	Double Mechanical Seal with Oil Lifter	
		Bearing	Double-shielded Ball Bearing	
	Materials	Impeller	Fiber-reinforced Plastic	
		Casing	Fiber-reinforced Plastic	
	Shaft Seal	SiC		
Motor	Type, Pole	Dry Type Submersible Induction Motor 2-pole		
	Class of Insulation	Class E		
	Phase	Single-phase (suffix "S") Three-phase		
	Starting Method	Capacitor Run (single-phase only) Direct on Line		
	Protection Device (built-in)	Circle Thermal Protector Miniature Thermal Protector (single-phase only)		
	Lubricant	Turbine Oil (ISO VG32)		
	Materials	Frame	304 Stainless Steel	
		Shaft	304 Stainless Steel	
		Cable	PVC	
	Discharge Connection	Screwed Flange		

Performance Curves



* Standard, Automatic and Auto-Alternation models have the identical performance.

Standard Specifications

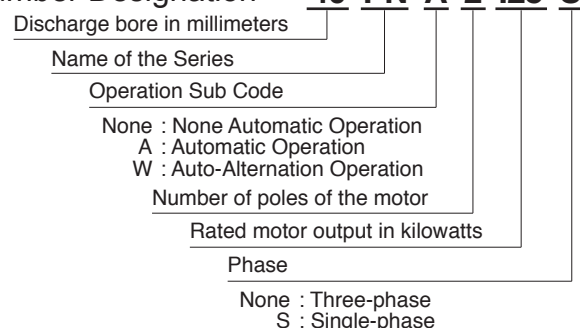
Discharge Bore mm	Standard Model		Automatic Model		Auto-Alternation Model		Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min ⁻¹	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs		Cable						
	Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting					Standard Model	Automatic & Auto-Alternation Model	No. of Cables	200 ~ 240 V		380 ~ 575 V		Length m	Material
														Cores × mm ²	Outer Dia. mm	Cores × mm ²	Outer Dia. mm		
40	40PN2.25S	(TOK)	40PNA2.25S	(TOK)	40PNW2.25S	(TOK)	0.25	Capacitor Run	3000/3600	10	7.1	7.7	1	3 × 1.25 ^{110~120V}	10.1	3 × 1.25 ^{220~240V}	10.1	5	PVC
40	40PN2.25	(TOK)	40PNA2.25	(TOK)	40PNW2.25	(TOK)	0.25	D.O.L.	3000/3600	10	6.1	6.7	1	4 × 1.25	11.1	4 × 1.25	11.1	6	PVC
50	50PN2.4S	(TOK)	50PNA2.4S	(TOK)	50PNW2.4S	(TOK)	0.4	Capacitor Run	3000/3600	10	7.1	7.7	1	3 × 1.25 ^{110~120V}	10.1	3 × 1.25 ^{220~240V}	10.1	5	PVC
50	50PN2.4	(TOK)	50PNA2.4	(TOK)	50PNW2.4	(TOK)	0.4	D.O.L.	3000/3600	10	7.0	7.5	1	4 × 1.25	11.1	4 × 1.25	11.1	6	PVC
50	50PN2.75S	(TOK)	50PNA2.75S	(TOK)	—	—	0.75	Capacitor Run	3000/3600	10	8.9	9.5	1	3 × 2.0 ^{110~120V}	10.9	3 × 1.25 ^{220~240V}	10.1	5	PVC
50	50PN2.75	(TOK)	50PNA2.75	(TOK)	50PNW2.75	(TOK)	0.75	D.O.L.	3000/3600	10	8.3	8.9	1	4 × 1.25	11.1	4 × 1.25	11.1	6	PVC
50	50PN21.5	(TOK)	50PNA21.5	(TOK)	50PNW21.5	(TOK)	1.5	D.O.L.	3000/3600	20	15.8	16.5	1	4 × 1.25	11.1	4 × 1.25	11.1	6	PVC

* Weights excluding cable

Applications

- Draining wastewater from residence, hotel, restaurant, etc
- Pumping rainwater and springwater from basement
- Circulating water in waterscape garden (e.g. waterfall, fountain, koi pond, etc)

Model Number Designation



Standard Accessories

- Free Standing**
- Screwed Flange

Guide Rail Fitting - TOK

- Lifting Chain 4m*, (with Shackles)
*5m for 1.5kW
- Guide Support (with Bolts & Nuts)
- Guide Hook
- Duckfoot Bend