

**TKE** **50Hz**  
SERIES  
LIFTING STATION

# TKE

AF series

F/FN series

Single pump

Dual pumps



## FEATURES

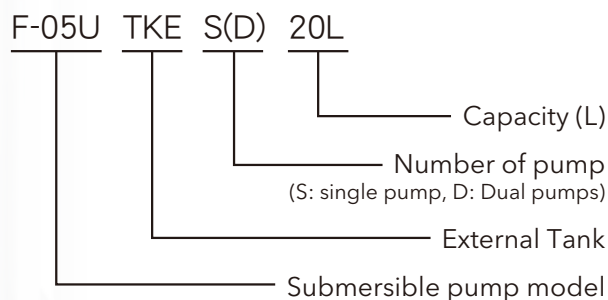
The HCP TKE series lifting stations are primarily designed for lifting sewage from low water levels. In low-lying areas or locations where drainage by gravity flow is not feasible, the TKE lifting station can be utilized to collect sewage and wastewater for temporary storage. By using a level controller to monitor the water level in the tank, the sewage and wastewater are pumped and discharged into the public piping system.

### U Type Vortex Impeller



U type non-clogging impeller produces a vortex (whirlpool effect) which allows slurry, long fibrous materials and solid waste to pass through, without contact with the impeller.

## PRODUCT NOMENCLATURE



## APPLICATIONS

- Hospital, hotel, and commercial building
- Vacation house, factory, and office building
- Renovation applications
- Basement drainage application

## F/FN SERIES SPECIFICATIONS

Item	Description	
Limits Of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	General wastewater • Sewage and Industrial water
Type	Frequency	50Hz
	Motor	2P ( 3000rpm) • Dry Motor
	Insulation	Class B (0.5~1HP) • Class F (2~5HP)
	Protection	IP68
	Protector	Auto-cut (0.5HP 1Ø : Thermal)
	Bearing	Ball Type
	M.seal	Double M.seals
	Impeller	Vortex
Material	Upper Cover	FC200 / GG-20
	Motor Frame	SUS304 / X5CrNi18-10
	Shaft	SUS410 / X10Cr13 (0.5~1HP) • SUS403 / X5Cr13 (2~5HP)
	M.seal	CA/CE & SiC/SiC
	Impeller	FC200 / GG-20
	Cable	VCT or H07RN-F
Optional	Consult with HCP PUMP technician for customized fit specifications.	

## STRUCTURE

Lifting station main components:

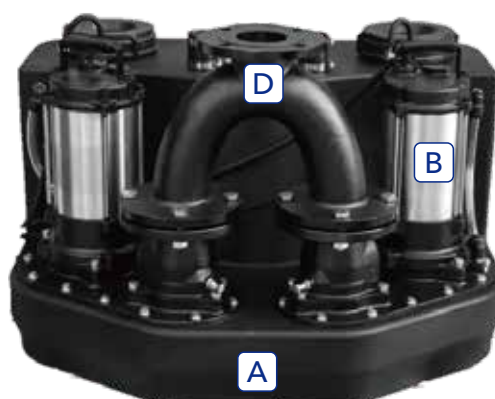
A: External PE tank

B: HCP High efficient pump

C: TKE Smart Controller

D: Pipes and valves

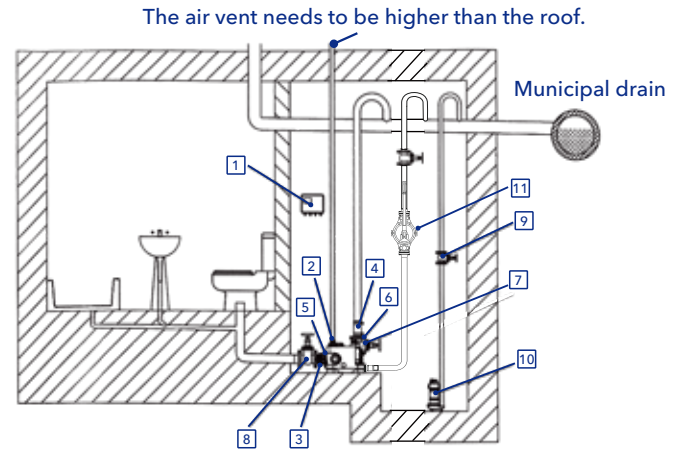
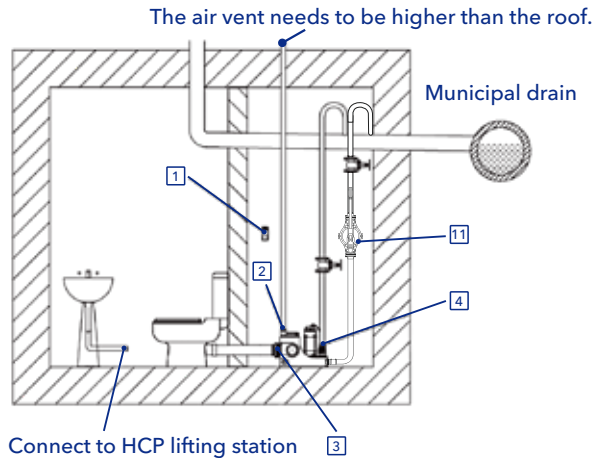
E: Liquid level sensor (inside the tank)







## INSTALLATION ILLUSTRATION



## ACCESSORY LIST

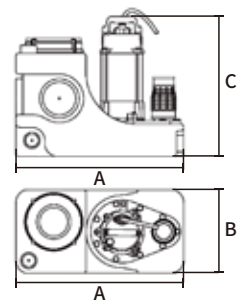
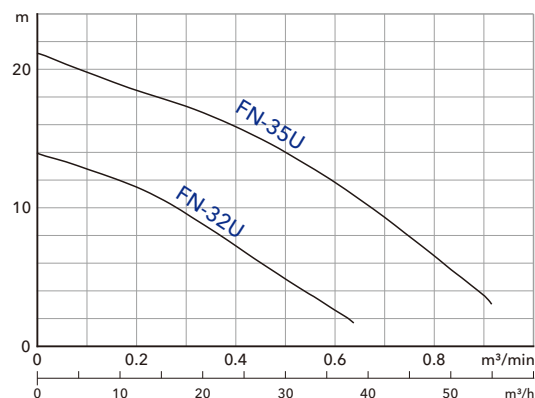
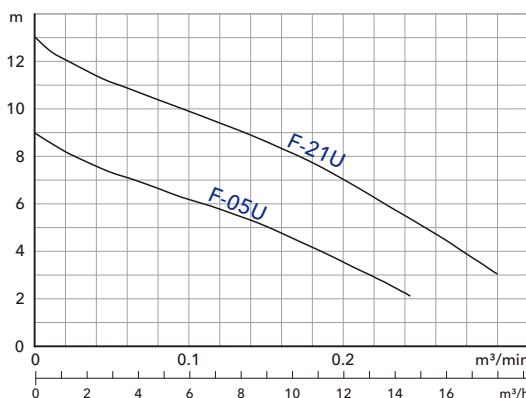
No.	Description	unit	Optional
1	TKE Smart Controller	1	Standard
2	Air pipe	1	Standard
3	water inlet pipe	1	Standard
4	water outlet pipe	1	Standard
5	inlet flange	1	Standard
6	outlet flange	1	Standard
7	water outlet check valve	1	Standard

No.	Description	unit	Optional
8	water inlet check valve	1	Optional
9	sump pump check valve	1	Optional
10	sump pump	1	Optional
11	Manual Diaphragm pump	1	Optional

※ 1. Optional float switch sump pump available based on site requirements.

※ 2. An optional manual diaphragm valve allows manual operation to discharge liquid from the collection tank in case of pump failure.

## PERFORMANCE CURVES



## PERFORMANCE SPECS.

Model	Output HP (kW)	Phase Ø	Standard head mm	Standard flow rate		Solid passage mm	Dimension TKE S (single) A*B*C mm	Weight kg	Dimension TKE D (Dual) A*B*C mm	Weight kg	Water inlet mm	Water outlet mm
F-05U TKE S	0.5 (0.4)	1 3	5.5	0.13	7.8	35	20L:520*260*434	23	-	-	100	40
F-21U TKE S/D	1 (0.75)	1 3	7.5	0.18	10.8	35	60L:520*520*436	32	80L:665*665*466	82	100	80
FN-32U TKE S/D	2 (1.5)	1 3	8.0	0.35	21	50	120L:720*620*537	63	150L:865*720*537	127	100(150)	80
FN-35U TKE D	5 (3.7)	3	15	0.45	27	50	-	-	450L:1120*900*765	127	100(150)	80

※ Contact your sales representative for more available models



## ACCESSORY: TKE SMART CONTROLLER

The perfect companion for HCP lifting stations, the TKE Smart Controller ensures seamless integration, easy installation, and an intuitive interface with customizable functions. Its advanced protection system safeguards against overload, no-load, and phase failure, enhancing reliability and minimizing pump damage for smooth, efficient operation.



## SUBMERSIBLE PUMP 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 is 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 Motor

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

※ Features vary by model specifications.



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