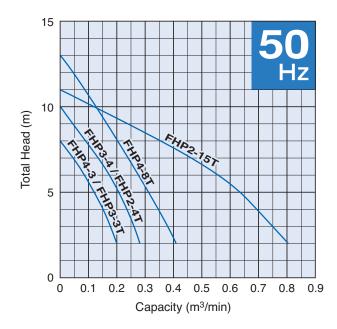
Tsurumi Pump		Wastewater Treatment Equipment
Floating Decanter:	Discharge Bore:	Motor Output / Pole:
FHP	40 - 80mm	0.25 - 1.5kW / 2-pole
		er designed for discharging supernatant rsible pump, sludge sensor, and a float.

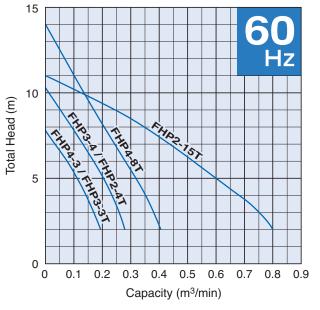
Ine FHP-series is a floating decanter designed for discharging supernatant liquid in SBR. It consists of a submersible pump, sludge sensor, and a float. The sludge sensor is a monitoring device that prevents unexpected inflow of sludge or other sediment and helps the pump solely discharge supernatant liquid. When the pump is not in operation, a check ball incorporated in the intake closes the suction opening by buoyancy, thus preventing the inflow of floating sludge into the suction casing.

Selection Table

Model	Discharge Bore	Motor Output	Phase	Pole
	mm	kW		
FHP4-3	40	0.25	1-phase	2
FHP3-3T	40	0.25	3-phase	2
FHP3-4	50	0.4	1-phase	2
FHP2-4T	50	0.4	3-phase	2
FHP4-8T	50	0.75	3-phase	2
FHP2-15T	80	1.5	3-phase	2

Performance Curves





🥏 Tsurumi Pump

SPECIFICATIONS Model

FHP4-3

Wastewater Treatment Equipment

EН	P-series
	F-SCHES

0.25kW, 1-phase

Type of Equipment

Floating decanter with a built-in submersible pump and sludge sensor suitable for discharging supernatant liquid in SBR

Type of Fluid Treated water

Temperature: 0 to 40°C

Discharge Bore & Connection 40mm, Hose Coupling

Motor Output 0.25kW

Power Supply Single-phase

Starting Method Capacitor Start

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E (available in F on special request) Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min-1 (50/60Hz)

Power Supply Voltages & Rated Currents 50Hz 60Hz 220V - 3.2A 110V - 5.5A 220V - 2.7A

230V – 3.0A 240V – 2.9A

Power Cable Sheath: PVC Standard Length: 6m 100 to 240V supply: 1 × 3 × 1.25mm², O.D. 10.1mm

Dry Weight (excluding cable) 29kg

Impeller

Semi-open two-channel impeller, dynamically balanced

Solids Passage 50Hz - ¢15mm 60Hz - *4*15mm

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 420 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Primary Seal Face: SiC + Ceramic Secondary Seal Face: Ceramic + Carbon

Oil Seal (Lip Seal) Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 190ml

Motor Protection Device

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Standard Accessory

Lifting Chain 3m (with Shackles)

Optional Accessories

Guide Rail Fitting Set

- Guide Support
- Guide Hook
- Guide Pipe Fixing Plate
- Stopper

Equipment

C TSURUMI PUMP wa			Wastew	ater Treatment Equipme
ODECIEICATIONO	Model FHP3-3T		FHP-series	
SPECIFICATIONS			0.25kW, 3-phase	
Type of Equipment Floating decanter with a bust sludge sensor suitable for o in SBR			Impeller Semi-open two-channel impe Solids Passage 50Hz – #15mm	eller, dynamically balanced
Type of Fluid Treated water			60Hz – ¢15mm	
Temperature: 0 to 40°C			Cable Entry with Anti-Wid Watertight cable entry with s	

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 420 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Primary Seal Face: SiC + Ceramic Secondary Seal Face: Ceramic + Carbon

Oil Seal (Lip Seal) Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 190ml

Motor Protection Device

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Standard Accessory

Discharge Bore & Connection

Continuous-duty rated, dry-type induction motor

No. of Poles & Speed (Synchronous Speed)

Power Supply Voltages & Rated Currents

60Hz

220V - 1.7A

380V - 1.0A

440V - 0.9A

Insulation Class: E (available in F on special request)

40mm, Hose Coupling

Motor Output 0.25kW

Power Supply Three-phase

Direct on Line

Motor

50Hz

27kg

380V - 1.0 A

400V – 0.95A

415V – 0.95A

Power Cable

Standard Length: 6m 200 to 600V supply:

1 × 4 × 1.25mm², O.D. 11.1mm

Dry Weight (excluding cable)

Sheath: PVC

Starting Method

Degree of Protection: IP68

2-pole, 3000/3600min⁻¹ (50/60Hz)

Lifting Chain 3m (with Shackles)

Optional Accessories

Guide Rail Fitting Set

- Guide Support
- Guide Hook
- Guide Pipe Fixing Plate
- Stopper

Tsurumi Pump

SPECIFICATIONS | Model

FHP3-4

Wastewater Treatment Equipment

ΕН	P-series	

0.4kW, 1-phase

Type of Equipment

Floating decanter with a built-in submersible pump and sludge sensor suitable for discharging supernatant liquid in SBR

Type of Fluid Treated water

Temperature: 0 to 40°C

Discharge Bore & Connection 50mm, Hose Coupling

Motor Output 0.4kW

Power Supply Single-phase

Starting Method Capacitor Start

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E (available in F on special request) Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 220V - 3.6A
 110V - 6.7A

 230V - 3.6A
 220V - 3.4A

 240V - 3.6A
 220V - 3.4A

Power Cable

Sheath: PVC Standard Length: 6m 100 to 240V supply: 1 × 3 × 1.25mm², O.D. 10.1mm

Dry Weight (excluding cable) 29kg

Impeller

Semi-open two-channel impeller, dynamically balanced

Solids Passage 50Hz – ¢15mm 60Hz – ¢15mm

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 420 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Primary Seal Face: SiC + Ceramic Secondary Seal Face: Ceramic + Carbon

Oil Seal (Lip Seal) Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 190ml

Motor Protection Device

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Standard Accessory

Lifting Chain 3m (with Shackles)

Optional Accessories

Guide Rail Fitting Set

- Guide Support
- Guide Hook
- Guide Pipe Fixing Plate
- Stopper

TSURUMI PUMP

Wastewater Treatment Equipment

ODECIEICATIONO	Model FHP2-4T		FHP-series	
SPECIFICATIONS		ΠP	Z=4 I	0.4kW, 3-phase
SPECIFICATIONSType of Equipment Floating decanter with a busiludge sensor suitable for or in SBRType of Fluid Treated waterTemperature: 0 to 40° CDischarge Bore & Conne 50mm, Hose CouplingMotor Output 0.4kWPower Supply Three-phaseStarting Method Direct on LineMotor Continuous-duty rated, dry- Insulation Class: E (available Degree of Protection: IP68No. of Poles & Speed (Synce 2-pole, 3000/3600min-1 (50/ Power Supply Voltages & Ray 50HzSolHz60Hz 380V - 1.2A 220V - 400V - 1.1A 380V - 415V - 1.1A 440V -Power Cable Sheath: PVC Standard Length: 6m 200 to 600V supply: 1 × 4 × 1.25mm², O.D. 11.1mDry Weight (excluding ca 27kg	uilt-in submersible pump a discharging supernatant liqu ection type induction motor le in F on special request) chronous Speed) /60Hz) ated Currents 1.8A 1.2A 1.0A	and	 Impeller Semi-open two-channel impel Solids Passage 50Hz – #15mm Cable Entry with Anti-Wia Watertight cable entry with swicking block prevents wate action should the power cat submerged. Bearing Permanently lubricated, dea C3 ball bearings Shaft 420 stainless steel Shaft Seal (Mechanical See Furnished with a double-face oil chamber. Both upper and in a clean environment. Primary Seal Face: SiC + Ce Secondary Seal Face: Ceram Oil Seal (Lip Seal) Used as a "Dust Seal," it pro- from abrasive particles. Type of Lubricating Oil & Turbine Oil (ISO VG32), 190r Motor Protection Device A circle thermal protector I Directly cuts the motor circui or an overcurrent condition o 	eller, dynamically balanced cking Block strain-relief device. The anti- r incursion due to capillary ole be damaged or the end ep-groove, double-shielded eal) e mechanical seal located in lower seal faces always run ramic nic + Carbon otects the mechanical seal Volume nl puilt in the motor housing. t if excessive heat builds up
			Ontional Association	

Standard Accessory

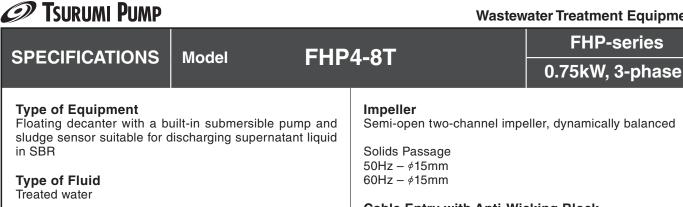
Lifting Chain 3m (with Shackles)

Optional Accessories

Guide Rail Fitting Set Guide Support

- Guide Hook
- Guide Pipe Fixing Plate
- Stopper

Wastewater Treatment Equipment



Temperature: 0 to 40°C

Discharge Bore & Connection 50mm, Hose Coupling

Motor Output 0.75kW

Power Supply Three-phase

Starting Method Direct on Line

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E (available in F on special request) Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)

Power Supply Voltages & Rated Currents 50Hz 60Hz

00112
220V – 3.5A
380V – 1.9A
440V – 1.7A

Power Cable

Sheath: PVC Standard Length: 6m 200 to 600V supply: 1 × 4 × 1.25mm², O.D. 11.1mm

Dry Weight (excluding cable) 28kg

Semi-open two-channel impeller, dynamically balanced

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 420 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Primary Seal Face: SiC + Ceramic Secondary Seal Face: Ceramic + Carbon

Oil Seal (Lip Seal) Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 420ml

Motor Protection Device

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Standard Accessory

Lifting Chain 3m (with Shackles)

Optional Accessories

Guide Rail Fitting Set

- Guide Support
- Guide Hook
- Guide Pipe Fixing Plate
- Stopper

0	Tsurumi	Pump
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SPECIFICATIONS Model

FHP2-15T

Wastewater Treatment Equipment

FHP-series

1.5kW, 3-phase

Type of Equipment

Floating decanter with a built-in submersible pump and sludge sensor suitable for discharging supernatant liquid in SBR

Type of Fluid Treated water

Temperature: 0 to 40°C

Discharge Bore & Connection 80mm, Hose Coupling

Motor Output 1.5kW

Power Supply Three-phase

Starting Method Direct on Line

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: F Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 380V - 3.5A
 220V - 6.0A

 400V - 3.5A
 380V - 3.4A

 415V - 3.5A
 440V - 3.2A

Power Cable

Sheath: PVC Standard Length: 6m 200 to 600V supply: 1 × 4 × 1.25mm², O.D. 11.1mm

Dry Weight (excluding cable) 60kg

Impeller

Semi-open two-channel impeller, dynamically balanced

Solids Passage 50Hz – ¢15mm 60Hz – ¢15mm

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 420 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Primary Seal Face: SiC + Ceramic Secondary Seal Face: Ceramic + Carbon

Oil Seal (Lip Seal) Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1050ml

Motor Protection Device

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Standard Accessory

Lifting Chain 5m (with Shackles)

Optional Accessories

Guide Rail Fitting Set

- Guide Support
- Guide Hook
- Guide Pipe Fixing Plate
- Stopper

Tsurumi Pump

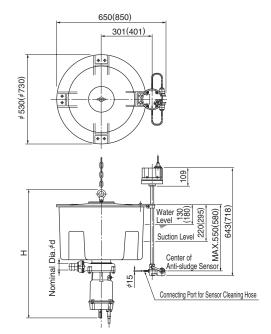
DIMENSIONS Model

FHP4-3 to FHP2-15T

Wastewater Treatment Equipment

FHP-series 40 - 80mm

		Unit: mm
Model	d	Н
FHP4-3	40	799
FHP3-3T	40	766
FHP3-4	50	799
FHP2-4T	50	766
FHP4-8T	50	818
FHP2-15T	80	991



*Figure in () shows the dimensions of model FHP2-15T.