

Floating Scum Skimmer:

**FSP**

Discharge Bore:

**50mm**

Motor Output / Pole:

**0.4·0.75kW / 2-pole**

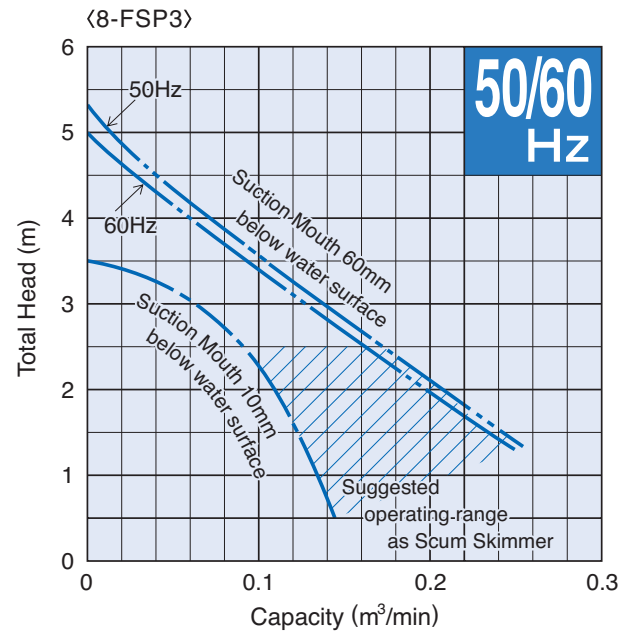
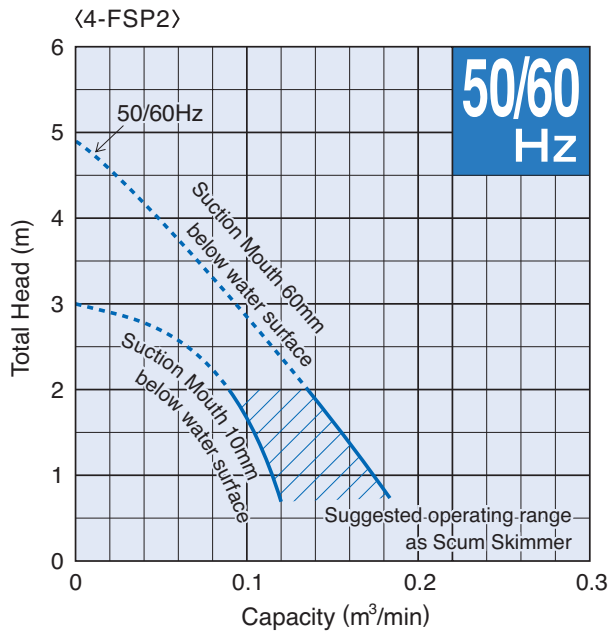


The FSP-series is a floating scum skimmer designed for the collection of floating scum in the wastewater treatment. It consists of a submersible pump, jet-injector mechanism, and three floats. The jet-injector mechanism ensures stable suction operation even if water, air and scum are drawn simultaneously. As it is a floating type, the suction mouth can keep its relative position with the water surface, which prevents operation failure due to changes in the water level. The suction mouth can be adjusted to a depth between 0 to 60mm, so that the skimmer can efficiently suck scum with minimal amount of water. Adjustment of the depth can be done by turning the floats to right or left.

**Selection Table**

Model	Discharge Bore mm	Motor Output kW	Phase	Pole
4-FSP2	50	0.4	3-phase	2
8-FSP3	50	0.75	3-phase	2

**Performance Curves**



SPECIFICATIONS	Model	4-FSP2									
		FSP-series 0.4kW, 3-phase									
<p><b>Type of Equipment</b> Floating scum skimmer with a built-in submersible pump suitable for drawing scum</p> <p><b>Type of Fluid</b> Treated water and scum</p> <p>Temperature: 0 to 40°C</p> <p><b>Discharge Bore &amp; Connection</b> 50mm, Hose Coupling</p> <p><b>Motor Output</b> 0.4kW</p> <p><b>Power Supply</b> Three-phase</p> <p><b>Starting Method</b> Direct on Line</p> <p><b>Motor</b> Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: E (available in F on special request) Degree of Protection: IP68</p> <p>No. of Poles &amp; Speed (Synchronous Speed) 2-pole, 3000/3600min<sup>-1</sup> (50/60Hz)</p> <p>Power Supply Voltages &amp; Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 1.2A</td> <td>220V – 1.8A</td> </tr> <tr> <td>400V – 1.1A</td> <td>380V – 1.2A</td> </tr> <tr> <td>415V – 1.1A</td> <td>440V – 1.0A</td> </tr> </table> <p><b>Power Cable</b> Sheath: PVC Standard Length: 6m 200 to 600V supply: 1 × 4 × 1.25mm<sup>2</sup>, O.D. 11.1mm</p> <p><b>Dry Weight (excluding cable)</b> 36kg</p>	50Hz	60Hz	380V – 1.2A	220V – 1.8A	400V – 1.1A	380V – 1.2A	415V – 1.1A	440V – 1.0A	<p><b>Impeller</b> Semi-open two-channel impeller, dynamically balanced</p> <p>Solids Passage 50Hz – φ16mm 60Hz – φ16mm</p> <p><b>Cable Entry with Anti-Wicking Block</b> Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p><b>Bearing</b> Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p><b>Shaft</b> 420 stainless steel</p> <p><b>Shaft Seal (Mechanical Seal)</b> Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Primary Seal Face: SiC + Ceramic Secondary Seal Face: Ceramic + Carbon</p> <p><b>Oil Seal (Lip Seal)</b> Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p><b>Type of Lubricating Oil &amp; Volume</b> Turbine Oil (ISO VG32), 170ml</p> <p><b>Motor Protection Device</b> 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.</p>		
50Hz	60Hz										
380V – 1.2A	220V – 1.8A										
400V – 1.1A	380V – 1.2A										
415V – 1.1A	440V – 1.0A										
<p><b>Standard Accessory</b></p> <p><b>3 × Mooring Rope 6m</b></p>											
<b>TSURUMI MANUFACTURING CO., LTD.</b>											

SPECIFICATIONS	Model <b>8-FSP3</b>	FSP-series							
		0.75kW, 3-phase							
<p><b>Type of Equipment</b> Floating scum skimmer with a built-in submersible pump suitable for drawing scum</p> <p><b>Type of Fluid</b> Treated water and scum</p> <p>Temperature: 0 to 40°C</p> <p><b>Discharge Bore &amp; Connection</b> 50mm, Hose Coupling</p> <p><b>Motor Output</b> 0.75kW</p> <p><b>Power Supply</b> Three-phase</p> <p><b>Starting Method</b> Direct on Line</p> <p><b>Motor</b> Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: E (available in F on special request) Degree of Protection: IP68</p> <p>No. of Poles &amp; Speed (Synchronous Speed) 2-pole, 3000/3600min<sup>-1</sup> (50/60Hz)</p> <p>Power Supply Voltages &amp; Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 1.9A</td> <td>220V – 3.5A</td> </tr> <tr> <td>400V – 1.9A</td> <td>380V – 1.9A</td> </tr> <tr> <td>415V – 2.0A</td> <td>440V – 1.7A</td> </tr> </table> <p><b>Power Cable</b> Sheath: PVC Standard Length: 6m 200 to 600V supply: 1 × 4 × 1.25mm<sup>2</sup>, O.D. 11.1mm</p> <p><b>Dry Weight (excluding cable)</b> 38kg</p>	50Hz	60Hz	380V – 1.9A	220V – 3.5A	400V – 1.9A	380V – 1.9A	415V – 2.0A	440V – 1.7A	<p><b>Impeller</b> Semi-open two-channel impeller, dynamically balanced</p> <p>Solids Passage 50Hz – <math>\phi</math>22mm 60Hz – <math>\phi</math>22mm</p> <p><b>Cable Entry with Anti-Wicking Block</b> Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p><b>Bearing</b> Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p><b>Shaft</b> 420 stainless steel</p> <p><b>Shaft Seal (Mechanical Seal)</b> Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Primary Seal Face: SiC + Ceramic Secondary Seal Face: Ceramic + Carbon</p> <p><b>Oil Seal (Lip Seal)</b> Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p><b>Type of Lubricating Oil &amp; Volume</b> Turbine Oil (ISO VG32), 420ml</p> <p><b>Motor Protection Device</b> 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.</p>
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<b>DIMENSIONS</b>	<b>Model</b>	<b>4-FSP2 &amp; 8-FSP3</b>	<b>FSP-series</b>
			<b>50mm</b>

Unit: mm

