

TMC Protein Skimmers

Tropical Marine Centre System Protein Skimmers are designed for the effective removal of dissolved proteins and other organic matter. All units feature venturi gas injection via an included, dedicated Venturi pump and are suitable for use with ozone.

Process water enters the top of the reaction chamber through the side of the unit and leaves under gravity via an external exit pipe. A gate/ball valve on the exit pipe is used to control the water flow and foam height inside the skimmer. All units are designed to be sited alongside or above a system reservoir.

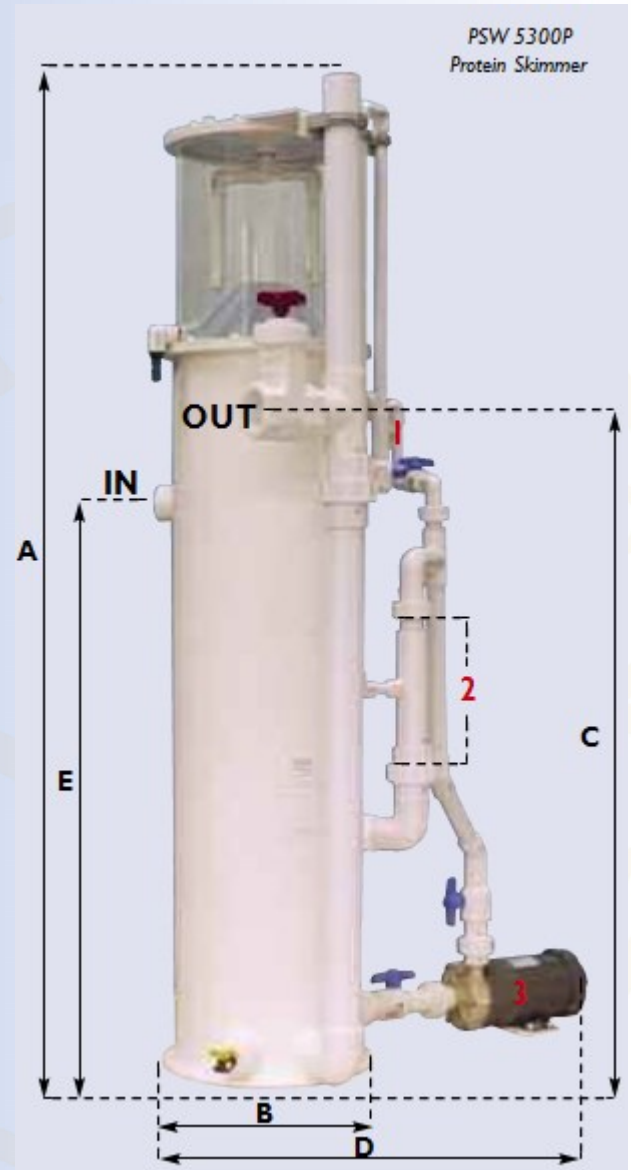
All Tropical Marine Centre System Protein Skimmers feature our unique, flexible double o-ring inlet and outlet boss system for easy service and the simple removal and replacement of pipework and components.

Benefits of Protein Skimming include:-

- Removal of suspended solids
- Removal of proteins and high molecular weight compounds
- Increased water clarity through removal of humic and phenolic compounds
- Increased oxygenation of the culture water
- pH stabilisation through removal of organic acids

The performance of the protein skimmer is dependent on many factors:-

- Salinity
- Air to water ratio
- Air bubble diameter
- Column height
- Air/water contact time
- Use of ozone



	A	B	C	D	E
<u>dimensions</u> (mm)					
PSW 5200A/P	1650	255	1070	700	960
PSW 5300A/P	1700	350	1070	820	960
PSW 5500PCOMPACT	1800	560	1060	1200	950
PSW 5500P	2250	560	1500	1200	1565



Technical Fact

Flow rate through a skimmer should not exceed the equivalent of the volume of the contact chamber being exchanged in less than one minute. Recommended system turnover through the skimmer should be at least 1x total system volume per hour.

Ozone should be applied on an individual tank basis at the equivalent of 5–15 mg/hour per 100 litres of volume. In commercial applications, 0.05 mg ozone per litre of flow is sufficient to achieve a recommended redox of 300–400 mV. A much higher dose rate of 0.2–0.5 mg of ozone per litre of flow is required to achieve redox levels of 700–800 mV at which the water can be considered sterilised but unfit for livestock without further treatment.

Wash Kits

All Tropical Marine Centre System Protein Skimmers include an internal saltwater cone wash system to prevent the build-up of slime inside the foam vent cone and an external freshwater rotating foam cup wash system to rinse the collected skimmate to waste via the foam cup drain.

We recommend installing automatic wash kits to reduce maintenance.



Battery Auto Timer Valve
Code 7938

Code	Grp	Product	Material	Volume	Flow rate		Venturi Pump Recomm.	Maximum System Volume at Application Level 3 (L)	Ozone from Air General Application up to 400mV	Inlet/outlet (")	Approx Shipping Weight (kg)
					L/Min	M ³ /hr					
7901	FI	PSW5200P	Polypropylene-U-PVC	40	40	2.4	1 x Sicce Multi 9000	2500	200mg/hr	1 1/2"	On Applic
7903	FI	PSW5300P	Polypropylene-U-PVC	90	90	5.4	1 x Sicce Multi 9000	5000	500mg/hr	1 1/2"/2"	On Applic
7904	FI	PSW5500P COMPACT	Polypropylene-U-PVC	245	245	14.7	1 x ITT AV50	10,000	1000mg/hr	2"/3"	On Applic
7909	FI	PSW5500P	Polypropylene-U-PVC	330	330	19.8	1 x ITT AV75	20000	2,000mg/hr	4"	On Applic

Three phase systems and systems suitable for other power ratings are also available.

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