

SEQUENCE[®] 2-CHAMBER SURFACE SKIMMER

INSTALLATION AND SERVICE MANUAL

Please fill in for future reference:

MODEL: _____

SERIAL NUMBER: _____

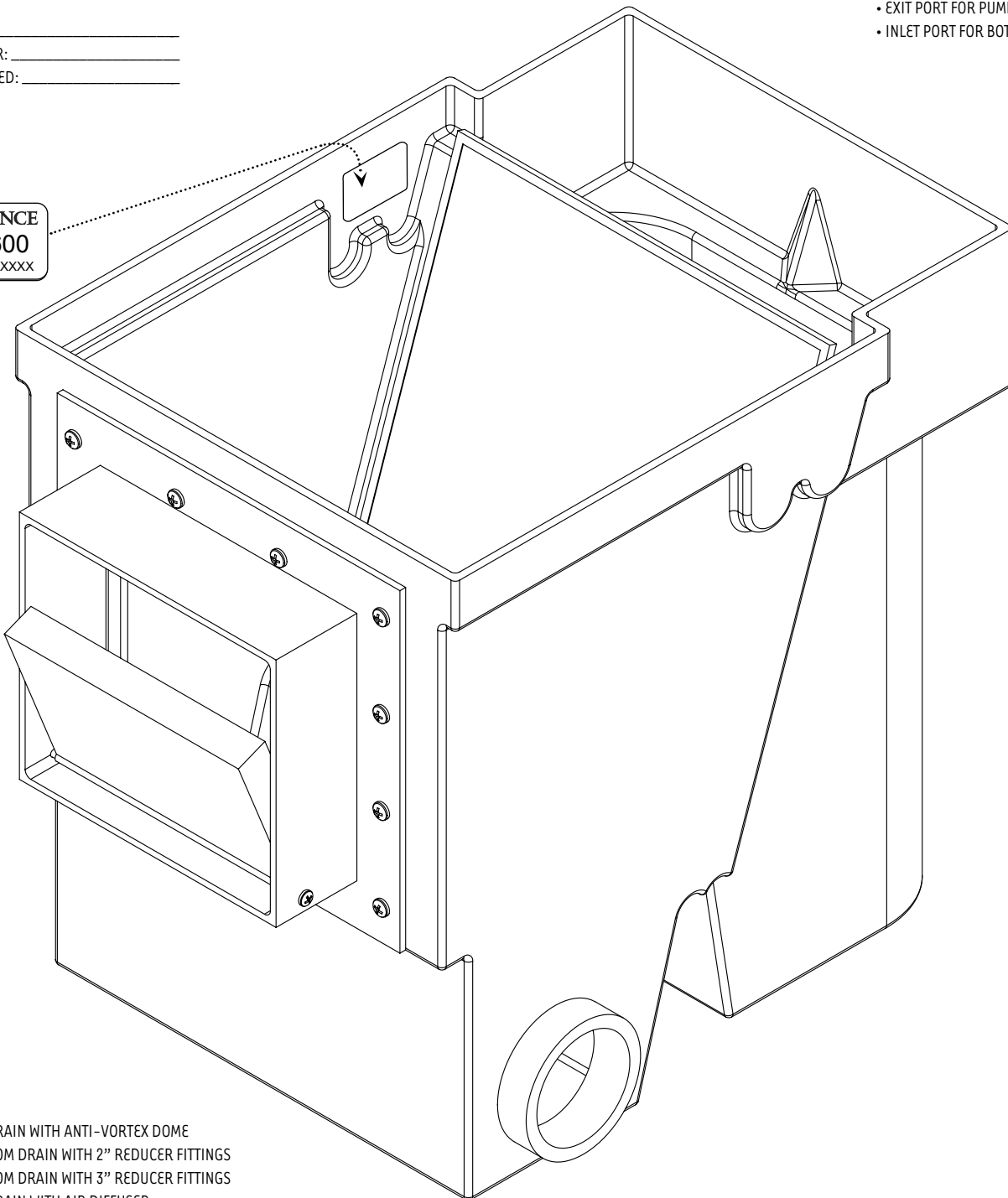
DATE PURCHASED: _____

TYPE: 2-CHAMBER SURFACE SKIMMER

• EXIT PORT FOR PUMP: 2"

• INLET PORT FOR BOTTOM DRAIN: 3"

 SEQUENCE
SKM5600
S/N: XXXX-XXXXXX



ACCESSORIES:

- 4" BOTTOM DRAIN WITH ANTI-VORTEX DOME
- KIT FOR BOTTOM DRAIN WITH 2" REDUCER FITTINGS
- KIT FOR BOTTOM DRAIN WITH 3" REDUCER FITTINGS
- 3" BOTTOM DRAIN WITH AIR DIFFUSER

WARNING: Please read completely before you install or operate your new Sequence[®] surface skimmer!



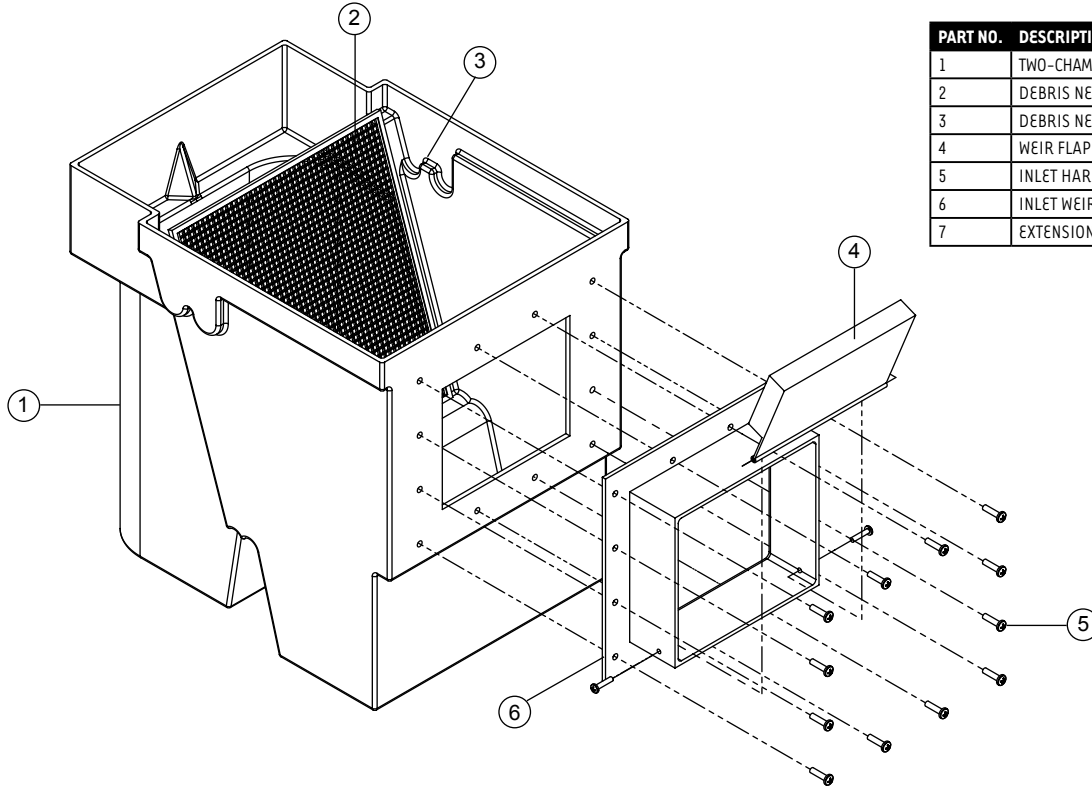
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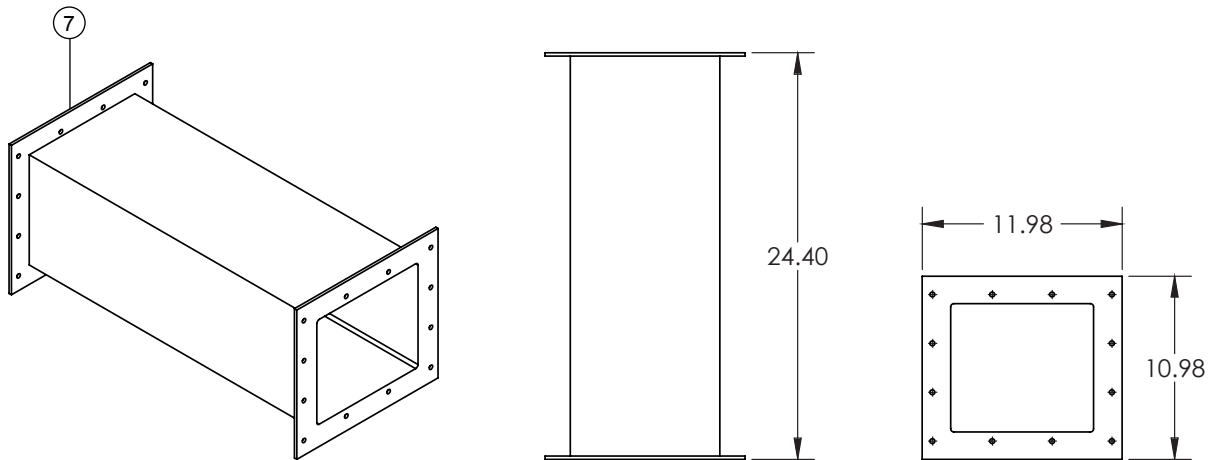
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SEQUENCE[®] 2-CHAMBER SURFACE SKIMMER

We congratulate you on your choice of the Sequence[®] Surface Skimmer and/or Bottom Drain! Its leading edge design provides you with high output at a minimal operating cost. It is carefully constructed to give you long term, reliable service. To insure proper performance, we urge you to carefully follow the instructions in this manual. If you have any questions, please call your supplier for assistance.



PART NO.	DESCRIPTION	SEQUENCE [®] P/N
1	TWO-CHAMBER SURFACE SKIMMER	SKM-5600
2	DEBRIS NET	SKM-A04
3	DEBRIS NET BRACE	SKM-A05
4	WEIR FLAP	SKM-A02
5	INLET HARDWARE KIT	SKM-A01
6	INLET WEIR FACE	SKM-A03
7	EXTENSION TUBE	SKM-EXT



Extension Tube

An extension tube allows you to locate/remote the skimmer 24" away from the pond making it much easier to hide!

1. The extension tube bolts to the front of the skimmer just like the face plate would. (See installation instructions on page 3)
 2. Use a thick bead of silicone around the opening on the skimmer then bolt tube to skimmer. The opposite end of the extension tube has inserts to secure the inlet-weir bolts.
 3. Place a heavy bead of silicone on the face of the extension tube then place liner over opening and bolt on inlet-weir, then trim out liner.
- Sequence[®] skimmers can be upgraded with either a filter pad rack or a filter brush rack. With either style, slide rack into groove in skimmer walls. When skimmer needs cleaning, the racks can be lifted out and rinsed off.



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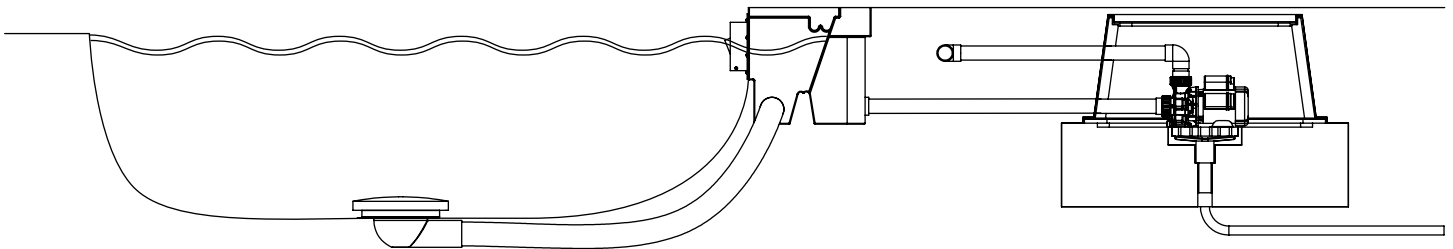
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INSTALLATION

At the time of digging a pond or in a retrofit, selecting an optimal location for a skimmer is critical for proper functionality. Optimal location is usually achieved by placing the skimmer on the opposite end of a waterfall directly in the flow path. Surface skimming works best when top/laminar currents of a pond are moving towards the inlet-weir of a skimmer.

1. Once location is selected and excavated, place skimmer into position and backfill/compact partially to hold the tub in place. Double check to make sure skimmer is level.
2. Place a large bead of silicone around the opening on the face of the skimmer, then hold liner up (this is best done by a second person) in front of opening.
3. Situate the inlet-weir against the skimmer with the bolt-flange flush with skimmer face, and the inlet-weir out towards pond (reference exploded view diagram) then line up the top holes with an awl.
4. Secure in place with bolts and washers. Install the four corner bolts first, and then install all remaining bolts.
5. After all bolts are in, reach inside face-plate opening and cut away the liner. See below for instructions if using an extension tube.
6. Silicone should dry for at least one hour before being submersed in water.
7. Be sure to install the PVC frame into the skimmer before backfilling the dirt around the outside of the skimmer. This frame is a support that keeps the side walls from bowing in.
8. Completely backfill and compact soil around skimmer unit. Be cautious to not compact the soil into the sidewall of the skimmer. Soil should be compacted enough to avoid settling and washout, but not create the skimmer walls to misshape or cave.
9. Install the debris net behind the inlet-weir of the skimmer. This will catch all leaves and debris as it is pulled into the skimmer.

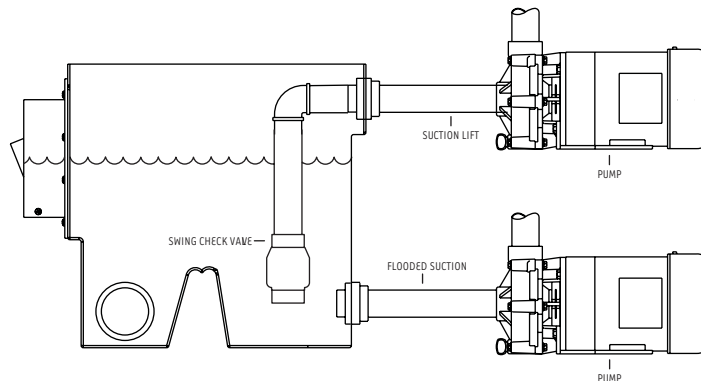


Connecting a bottom drain:

1. The Sequence[®] skimmer is supplied with a port intended for connecting a bottom drain. When looking at the front of the skimmer (inlet-weir), one 3" spin-weld fitting is located on the right side in the side wall of the debris chamber.
2. The provided 3" threaded PVC cap should be used if a bottom drain is not going to be utilized or integrated into this port.

Connecting to an external pump:

1. Skimmer is supplied with a 2" spin-weld fitting located in the back/bottom of the unit. One 2" male adapter can be used to adapt 2" pipe to ultimately tie into both Sequence[®] 750 and 4000 series pumps.
2. One 2" X 1.5" reducer bushing can be utilized for adapting to a Sequence[®]1000 series pump.
3. The skimmer unit is also provided with a 2" knockout on the top, rear-end of the skimmer wall for Suction lift applications. A 2" bulkhead/tank adapter fitting is need for connecting in this format. (Please reference Figure 2)



(Figure 2)



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MAINTENANCE

Always ensure the surface skimmer has adequate water supply in the secondary chamber where the pump picks up the water for recirculation. The most common threat to adequate circulation is debris constricting flow to the pump, especially in the fall when trees and shrubs lose their foliage.

In the summer months: It is recommended to check the debris net once a week and remove any and all trapped fragments from the ponds surrounding environment.

In the Spring & Fall Months: it is recommended to check the debris net once a day and remove any and all trapped fragments from the ponds surrounding environment.

In the Winter Months: If the pond location is in a climate that sees freezing temperatures, it is recommended to winterize the pond and drain the skimmer completely. If the pond utilizes a bottom drain and deep circulation loop, it is recommended to close the weir-flap of the inlet-weir and stop surface skimming. Maintain circulation through the bottom drain circuit and a recirculation bypass. It is recommended to check the internal skimmer chambers once a day to ensure no freezing has occurred in the skimmer unit and plumbing lines.

TROUBLESHOOTING

Symptom	Problem	Resolution
No Flow	Obstruction of the flow path	Clear any and all debris out of the flow path
	Power supply of the pump	Assure clean power to the pump
Water level in Skimmer does not keep up with flow of pump	Over-sized pump to the skimmer flow capacity	(1) Throttle down discharge of the pump with a ball valve. (2) Accurately size pump performance to skimmer capacity and pond recirculation targets
Water Level in Skimmer too high	Under-sized pump to the skimmer and pond flow capacity	(1) If any valves are utilized on discharge of pump, assure valves are open enough to an equalizing flow rate. (2) Accurately size pump performance to skimmer capacity and pond recirculation targets
Skimmer Overflows when pump is off	Waterfall overloads pond capacity when pump is not running	Plumb in an overflow/bypass drain in the very top of the pond liner or pond wall as close to the skimmer or in the low point of the pond.



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