

SWIMMING POOL AUTOMATIC SURFACE SKIMMER

General:

1. These specifications describe a swimming pool automatic surface skimmer (hereafter referred to as surface auto-skimmer) designed for pools, spas and other aquatic applications. The specification is based on the **SP1070 Auto Skimmer** manufactured by Hayward Industries.
2. This specification includes criteria for the following CSI Master Format components:
 - 2.1. Division 13 – Special Construction
 - 131000 Special Facility Components
 - 130111 Operation and Maintenance of Swimming Pools.
 - 131100 Swimming Pools
 - 131146 Swimming Pool Accessories
 - 2.2. Division 22 – Plumbing
 - 220150 Operation and maintenance of pool and fountain plumbing systems
 - 225000 Pool and Fountain Plumbing Systems
 3. It is the intent of the specifications that the perimeter overflow system and surface cleaning be maintained under all conditions of normal operation and that no water be discharged to waste except when cleaning the filters or emptying the pool.
 4. Surface auto-skimmers should be provided as required or as shown in the drawings. Skimmers shall be located to provide maximum skimming action.
 5. The piping and other pertinent components of skimming equipment shall be designed for a total capacity of the required filter flow of the recirculation system.
 6. The surface auto-skimmer shall meet the criteria of the following standards:
 - NSF – National Sanitation Foundation
 7. The surface auto-skimmer shall be supplied to its site of installation in its original manufacturer's packaging. The package shall clearly state the model name, model number and country of manufacture and include the relevant operating and installation instructions.
 8. The surface auto-skimmer shall be a manufactured by a company with at least 10 years of proven product experience. The manufacturing facility shall be a permanent, established facility that meets the relevant codes.
 9. The surface auto-skimmer shall be guaranteed by the manufacturer for workmanship, materials and performance for a period of 1 year.



Product:

1. The surface auto-skimmer should be molded from non-corrosive ABS and of uni-body construction to ensure operational integrity.
2. The surface auto-skimmer shall have the following:
 - a. Adjustable deck collar with vertical adjustment of 1" to accommodate construction variances.
 - b. Round access cover that can be fastened to the body with stainless steel screws. The manufacturer name/logo should be molded onto the lid. The cover shall be NSF listed.
 - c. Self adjusting stainless steel spring loaded weir minimum 8" width which shall operate freely with continuous action to variations in water level over a range of at least 4 inches at all flow variations.
 - i. The weir shall be of such buoyancy and design so as to develop an effective velocity.
 - d. Large debris basket which traps large solids while allowing all overflow water to pass.
 - i. Easily removable and cleanable
3. The surface auto-skimmer shall be equipped with an equalizer for a suction outlet thru-skimmer system and an auto safety by-pass for low water conditions.
 - a. An equalizer pipe shall be used and shall provide an adequate amount of water for pump suction should the water of the swimming pool drop below the weir level.
 - b. The equalizer piping and fittings shall be sized to meet the capacity requirements of the filter and pump and shall be in no case less than 2 inches in diameter.
 - c. The pipe shall be located at least one (1) foot below the lowest overflow level of the skimmer.
 - d. The equalizer float valve assembly shall remain tightly closed under normal operating conditions but will automatically open when the water level drops below the lowest weir operating level.
 - e. An equalizer fitting conforming to ANSI/ASME A112.19.8 and designed to reduce the possibility of hair entrapment in the fitting must be installed.
4. The surface auto-skimmer shall have multiple 1 1/2" and 2" plumbing connections with threaded internal connections to facilitate pressure testing. The surface auto-skimmer shall have a capacity of allowing 63 gpm of flow when the 2" is connected.
5. The surface auto-skimmer shall be equipped with a Flo- Control Trimmer Plate to allow balancing of flow.
6. The piping and other pertinent components of skimming equipment shall be designed for a total capacity of the required filter flow of the recirculation system, and no skimmer shall be designed for a flow-through rate of less than 30 gallons per minute or 5 gallons per minute per lineal inch of weir.

