



# TRI NUCLEAR CORP.

THE INDUSTRY STANDARD IN UNDERWATER FILTRATION

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## *Pool Skimmer Model SK-175*

The Pool Skimmer (Model No. SK-175) is a portable surface water skimmer for the Spent Fuel Pool and/or the Reactor Cavity. It is designed to operate in conjunction with a Tri Nuclear Underwater Filter/Vacuum system Model UFV-260 or UFV-100.

The SK-175 is designed to provide a skim perimeter of ~9-1/2 ft.[2.9 m] at flow rates between 50-150 GPM [189 – 568 LPM]. This permits a thin overflow depth, which is necessary to effectively use water tension to skim pool surface water and not dilute the overflow stream with sub-surface water.

### **The skimming action allows the SK-175 to:**

- Remove floating dirt and debris, up to 0.125 inch [3.18 mm] in diameter, from the pool surface to maintain water clarity
- Remove floating crud bursts to avoid “flea” type personnel contamination and high radiation levels over pools.
- Prevent crud plate-out on side walls of cavities during pump down, which can result in airborne contamination problems.

The UFV-260 (or UFV-100) takes suction on the SK-175's bottom outlet camlock fitting. This draws water across the Skimmer Skirt and through the overflow trough.

As the filter cartridges start to load up from dirt buildup with extended operations, the flow can decrease through the skimmer. This will not significantly affect the skimming efficiency of the unit since it is designed for a flow rate of between 50 and 150 GPM [189 – 568 LPM]. The floating skirt weir will automatically adjust its level to the flow rate and maintain an efficient thin overflow stream.



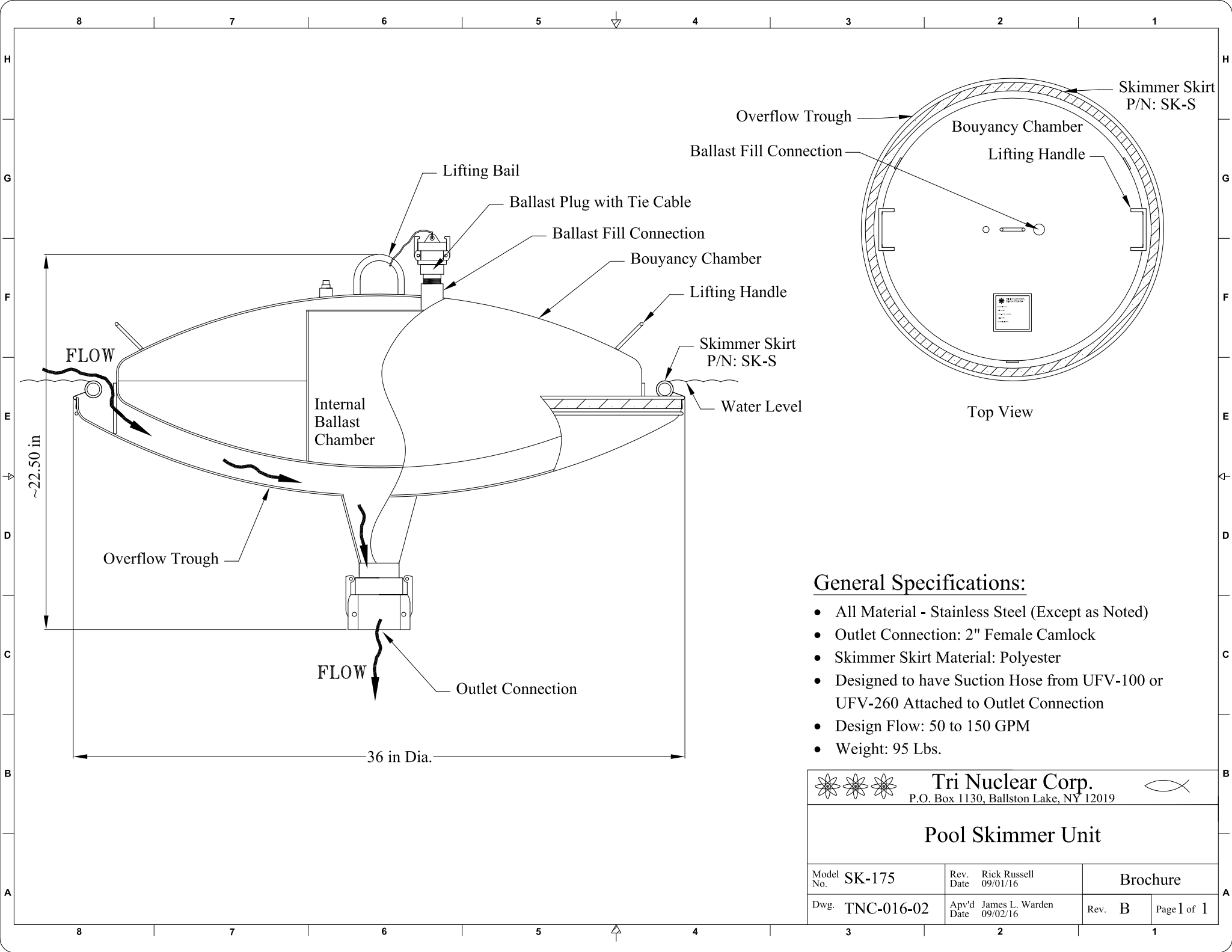
**SK-175 Skimmer in operation at a PWR**

### **Nuclear Applications:**

- Reactor Cavity surface water skimming
- Spent Fuel Pool surface water skimming

### **Specifications:**

- Diameter: 36in [91.4 cm]
- Overall Height: 22.5 in [57.1 cm]
- Weight: 95 lb. [43 kg]
- Designed to operate with a suction hose from a UFV-260-CE or UFV-100-CE system.
- System Flow Rate: 50-150 GPM [189 – 568 LPM]
- Material of Construction:  
304/316 Stainless Steel Skimmer  
Polyester Skimmer Skirt



**General Specifications:**

- All Material - Stainless Steel (Except as Noted)
- Outlet Connection: 2" Female Camlock
- Skimmer Skirt Material: Polyester
- Designed to have Suction Hose from UFV-100 or UFV-260 Attached to Outlet Connection
- Design Flow: 50 to 150 GPM
- Weight: 95 Lbs.

		<b>Tri Nuclear Corp.</b> P.O. Box 1130, Ballston Lake, NY 12019			
<b>Pool Skimmer Unit</b>					
Model No.	<b>SK-175</b>	Rev. Date	Rick Russell 09/01/16	<b>Brochure</b>	
Dwg.	<b>TNC-016-02</b>	Apv'd Date	James L. Warden 09/02/16	Rev. <b>B</b>	Page 1 of 1