



UFV-260 Underwater Filter Vacuum

Tri Nuclear has developed a versatile stand-alone Underwater Filter Vacuum which is ideal for use in the Spent Fuel Pool or Reactor Cavity and is the most widely used Underwater Filter Vacuum on the market.

Tri Nuclear's Underwater Filter Vacuums can be operated for long durations practically unattended without the need for maintenance or element change out, all while controlling water clarity and reducing dose rates.

Because the portable Underwater Filter Vacuum is submerged, it needs no external shielding, or hoses running in or out of the pool that may cause rippling, poor visibility or personnel exposure/contamination.

Tri Nuclear's Underwater Filter Vacuums operate under negative pressure which allows the pump to be gravity seated and does not require any special tooling to install or remove the pump underwater.



UFV-260 Housing and Pump

Features:

- Rapid system deployment via camlock hose connections, twist lock electrical connections, and Phase Reversing control boxes
- All stainless steel construction
- Underwater service requiring no additional shielding
- Tooling for rapid underwater remote filter change out

Specifications:

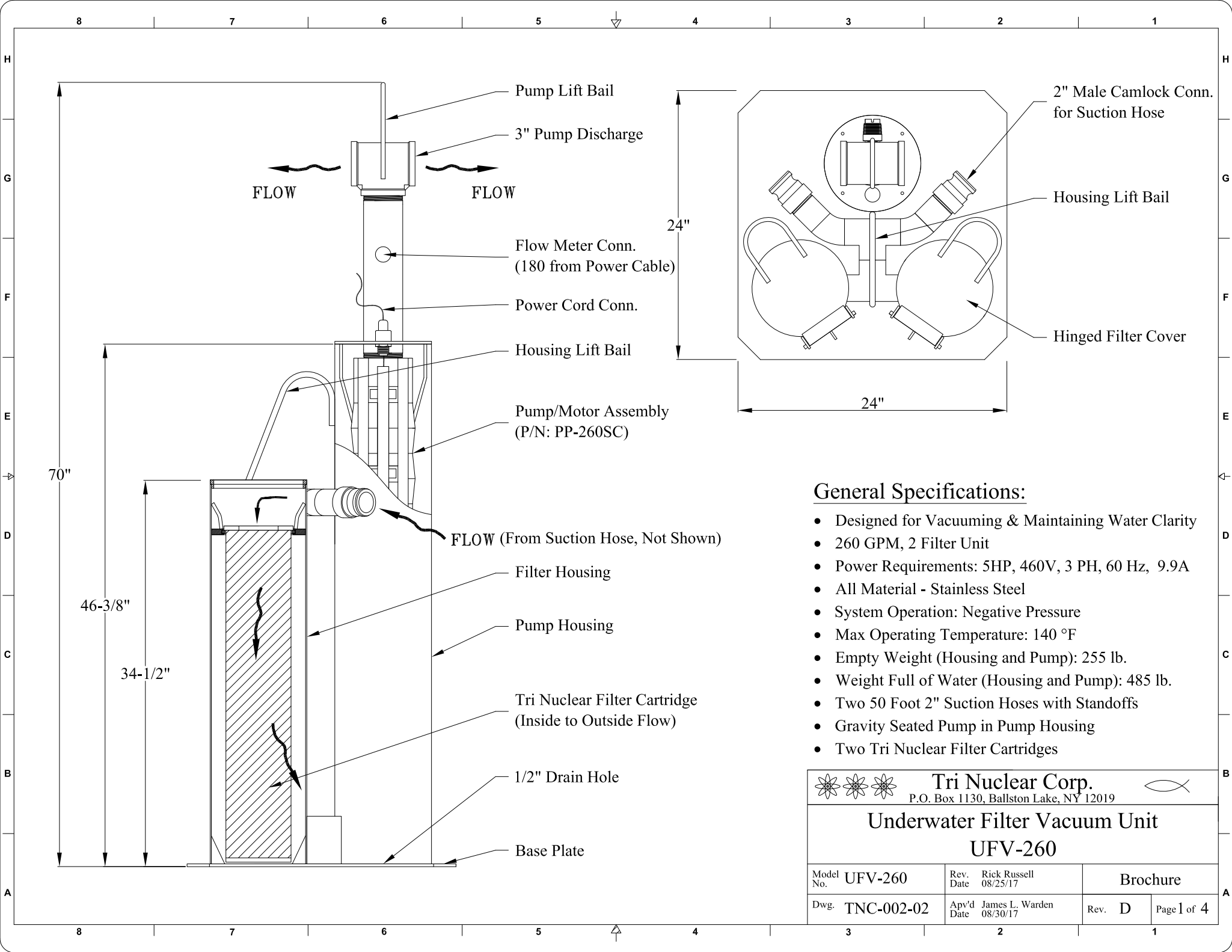
- | | |
|----------------------------|-----------------|
| • System Flow Rate: | 260 GPM |
| • No of Filters: | 2 Cartridges |
| • Hoses: | 2 Suction |
| • Footprint: | 24 in. x 24 in. |
| • Height: | 70 in. |
| • Pump Weight: | 85 lbs. |
| • Housing Empty with Pump: | 250 lbs. |
| • Housing Full with Pump: | 500 lbs. |

Filter Cartridge Design:

Tri Nuclear's Filter Cartridges have pleated media construction. This provides a large filter area and long run times. The filters are designed for inside to outside flow which means that solids are trapped in the element and won't flake or slough off during change out.

"Operating" vs. "Complete" System

Each of the UF/UFV systems is sold in both the "Operating" and "Complete" system kits. The "Operating" system comes with only the basic components required to operate the system. The "Complete" system comes with the basic components and all accessory tooling.



General Specifications:

- Designed for Vacuuming & Maintaining Water Clarity
- 260 GPM, 2 Filter Unit
- Power Requirements: 5HP, 460V, 3 PH, 60 Hz, 9.9A
- All Material - Stainless Steel
- System Operation: Negative Pressure
- Max Operating Temperature: 140 °F
- Empty Weight (Housing and Pump): 255 lb.
- Weight Full of Water (Housing and Pump): 485 lb.
- Two 50 Foot 2" Suction Hoses with Standoffs
- Gravity Seated Pump in Pump Housing
- Two Tri Nuclear Filter Cartridges

<div>Tri Nuclear Corp.</div> <div>P.O. Box 1130, Ballston Lake, NY 12019</div>			<div>Underwater Filter Vacuum Unit</div> <div>UFV-260</div>	
Model No.	UFV-260	Rev. Date	Rick Russell 08/25/17	
Dwg.	TNC-002-02	Apv'd Date	James L. Warden 08/30/17	Rev. D
			Page 1 of 4	

UFV-260OP "UFV-260 OPERATING SYSTEM"

SP-1x2
Pool Pole

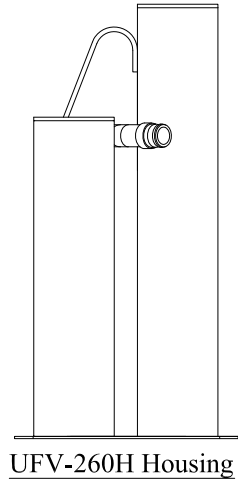
SP-1x3
Pool Pole

SP-1x5
Pool Pole

SP-1 Pool Pole
Qty: 4

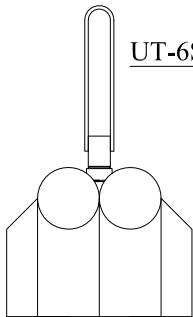
UT-9 Rope Filter Lift Tool
Qty: 2

UT-7 Vacuum Nozzle

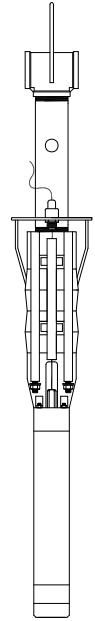


UFV-260H Housing

UT-3/6 Filter Storage Rack

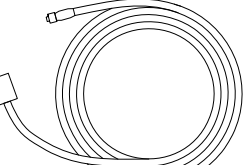
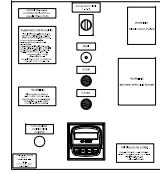


PP-260SC Pump

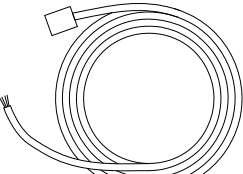


PP-260SC Pump

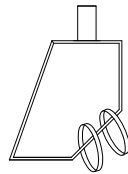
CB-260-FM
Phase Reversing Control Box
with Integral Flow Meter



PSC-100P Power Cord
with Twistlock Plug

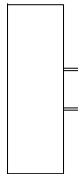


PC-50 Drop Cable
with Twistlock Plug

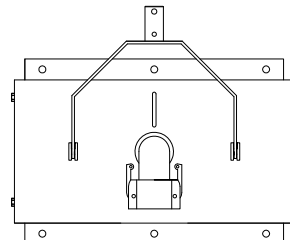


UT-6SP Hose to Pole Clamp

BC-1 Bouyancy Float
Qty: 5



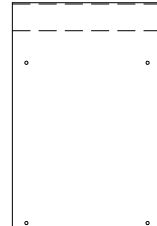
UT-5SP Vacuum Cleaner Head



FM-SRD Flow Sensor



UT-10C Mounting Panel



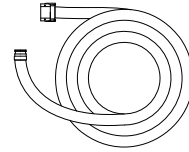
UT-11 Suction Hose Standoff
Qty: 2



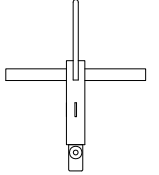
UT-12 Orifice Cap



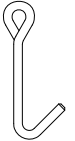
PH-2x50 Suction Hose
Qty: 2



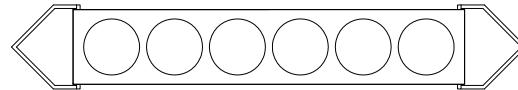
UT-1SPT "T" Handle



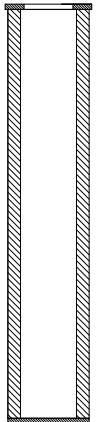
UT-14 Pump Lift Hook



UT-3H Hanging Filter Storage Rack





VCPH-*PE Filter Cartridge
NOTE: Not supplied with system.



NOTE:

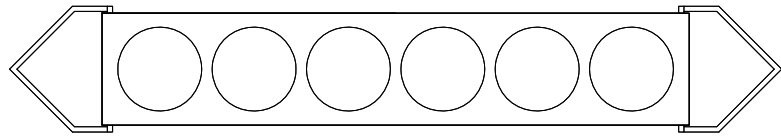
All Items Shown come with the UFV-260 "Complete System"
in listed quantity except as noted.

			Tri Nuclear Corp. P.O. Box 1130, Ballston Lake, NY 12019								
UFV-260 System Part Identification											
Model No.		UFV-260		Dwg.		TNC-002-02		Rev. D		Page 2 of 4	

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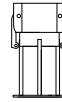
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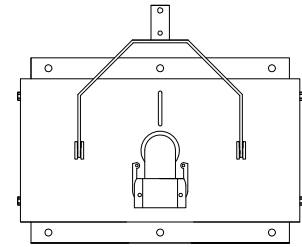


UT-3H Hanging Filter Storage Rack
Holds (6) Tri Nuclear Filter Cartridges
Dimensions: 42" x 8" x 4" (LWH)
Weight: 13.5#

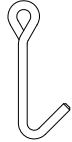
Swing Lift Bail



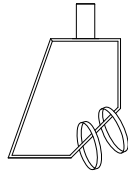
UT-11 Suction Hose Standoff
Attaches to 2" Suction Hose (Typically PH-2x50)
Dimensions: 3" Dia x 8" Lg.
Weight: 2#



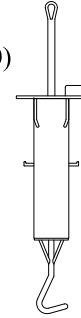
UT-5SP Vacuum Cleaner Head
Attaches to 2" Suction Hose (Typically PH-2x50)
Dimensions: 20" x 10" x 8"
Weight: 18.5#
Polypro Camlock Fitting



UT-14 Pump Lift Hook
Dimensions: 4-1/2" x 5/8" x 8"
Weight: 1#



UT-6SP Hose to Pole Clamp
Dimensions: 13-3/4" x 8" x 2"
Weight: 2#



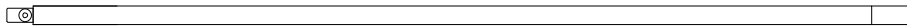
UT-9 Rope Filter Lift Tool
Dimensions: 5" Dia x 24-3/4" Lg.
Weight: 4.5#



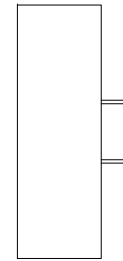
SP-1x2 Pool Pole
Dimensions: 1" Dia x 2' Lg.
Weight: 2.5#



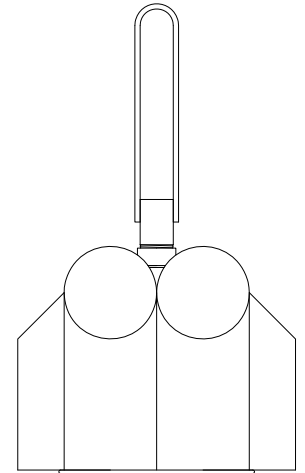
SP-1x3 Pool Pole
Dimensions: 1" Dia x 3' Lg.
Weight: 3#



SP-1x5 Pool Pole
Dimensions: 1" Dia x 5' Lg.
Weight: 5#



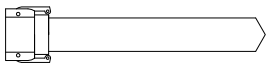
BC-1 Bouyancy Float
Dimensions: 6" Dia x 12" Lg.
Weight: 8.5#



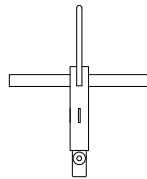
UT-3/6 Filter Storage Rack
Holds (6) Tri Nuclear Filter Cartridges
Dimensions: 20" Dia x 33" High
Weight: 50#



SP-1 Pool Pole
Dimensions: 1" Dia x 10' Lg.
Weight: 9#



UT-7 Vacuum Nozzle
Attaches to 2" Suction Hose (Typically PH-2x50)
Dimensions: 2" Dia x 18" Lg.
Weight: 4#

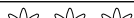


UT-1SPT "T" Handle
Dimensions: 10" x 10" x 1"
Weight: 2#



UT-12 Orifice Cap
Dimensions: 3" x 3" x 4" (LWH)
Weight: 0.5#
Polypro Camlock Fitting

• All Material - Stainless Steel except as noted.

		Tri Nuclear Corp. P.O. Box 1130, Ballston Lake, NY 12019		
UFV-260 Accessory Tooling				
Model No.	UFV-260	Dwg.	TNC-002-02	Rev. D
			Page 3 of 4	

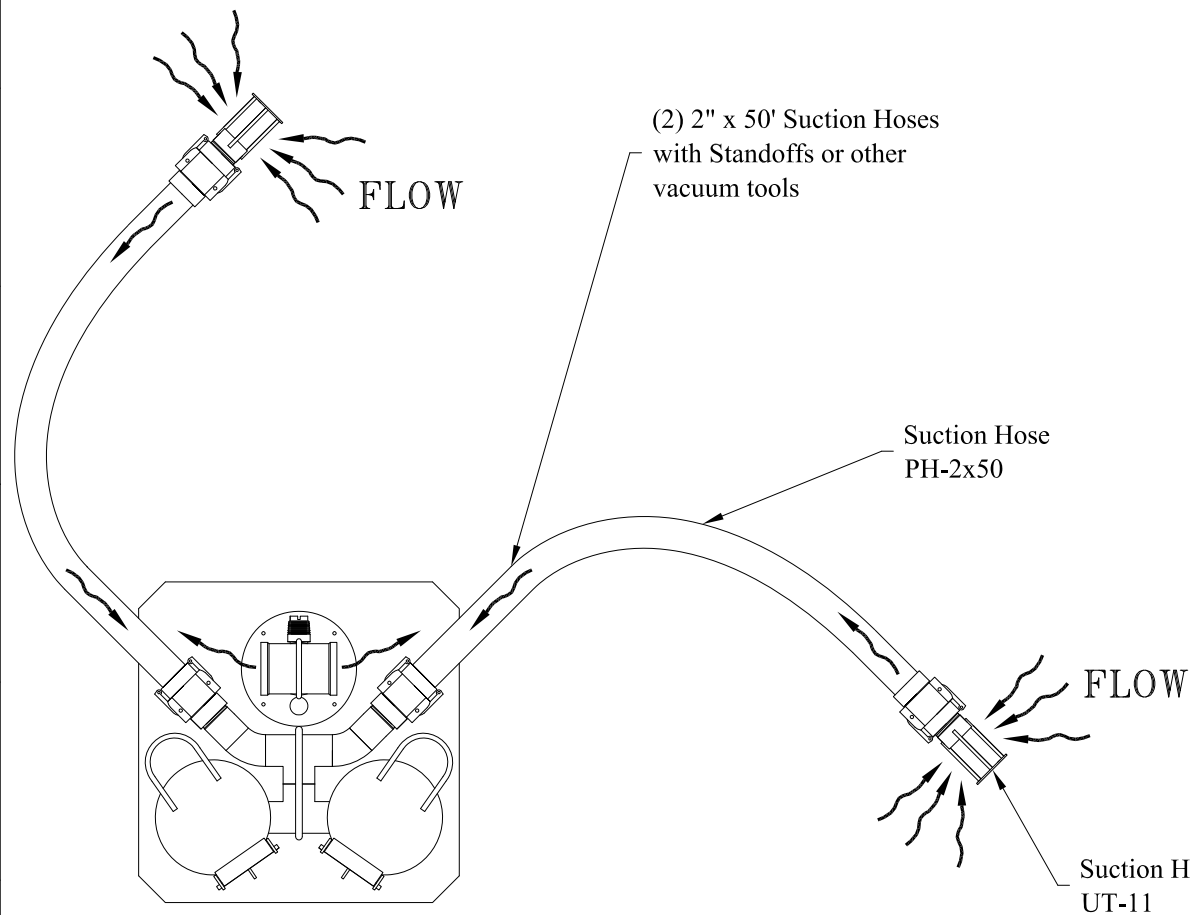
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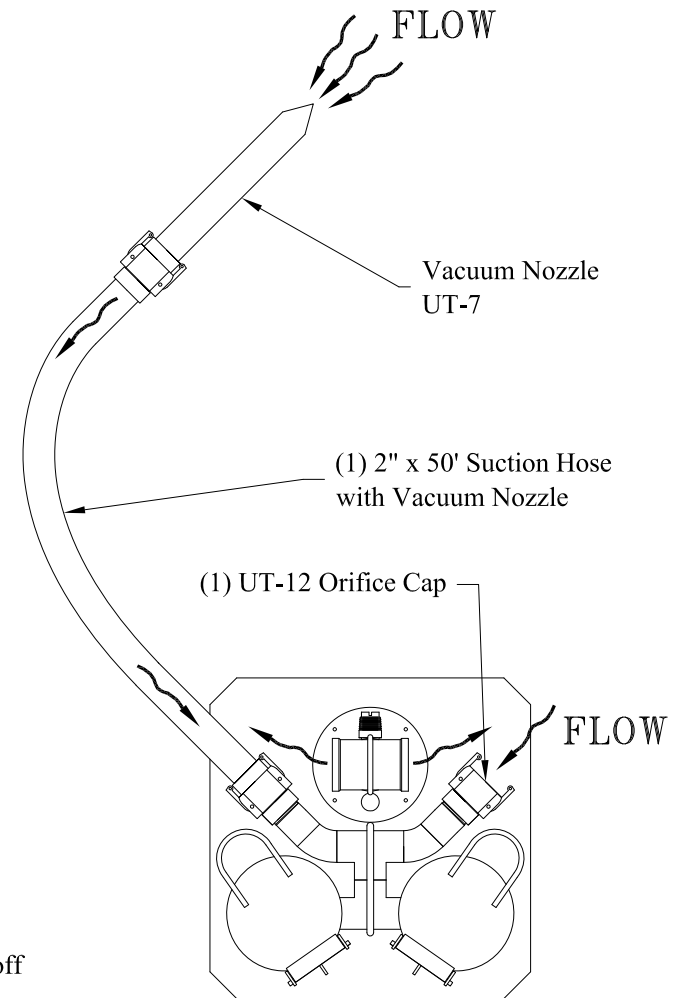
WATER CLARITY OPERATIONS

(Dual Hose Operation)

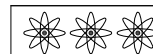


VACUUMING OPERATIONS

(Single Hose Operation)



* NOTE: UFV-260 Must be run with at least one Suction Hose attached.



Tri Nuclear Corp.
P.O. Box 1130, Ballston Lake, NY 12019



UFV-260 System
Modes of Operation

Model No.	UFV-260	Dwg.	TNC-002-02	Rev.	D	Page 4 of 4
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