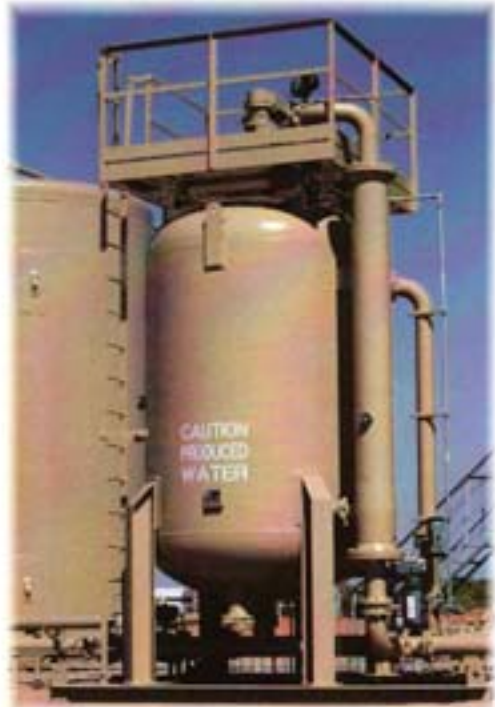




**ABSOLUTE
FILTRATION
INDUSTRIES
CORPORATION**

www.walnutshellfilter.com

HYDROFLOW™



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The **HYDROFLOW™** deep bed nut shell filter brings major improvements to filtration technology. By utilizing "Black Walnut Shells" as the media, the **HYDROFLOW™** removes greater than 98% of oil contaminants and suspended solids from a water stream. Specifically suited for filtering water used for oil field flooding, refinery disposal and off shore disposal, **HYDROFLOW™** also has applications in the chemical, petrochemical, metal working and power generation industries.

The **HYDROFLOW™** Black Walnut Shell media filter is the 8th generation in the evolution of walnut shell filters. It brings to the market an innovative filter that provides economic advantages to waste water cleanup applications.

The **HYDROFLOW™** performs as all down flow nut shell filters except it incorporates new innovations that have benefits over previous nut shell filters. If you would like to know more about nutshell filters please see **HYDROFLOW™** "Questions & Answers" on our website.

Features And Benefits

A positive media cleanup which prevents bed channeling and mud balling, thereby, giving longer filter life and eliminating bed replacement.

Elimination of compulsory chemicals for fine removal efficiency or filter cleanup, thereby reducing operation and maintenance cost.

Does not require clean water for filter cleanup, allowing all filtered water to be used and eliminating the need for clean water backwash storage tanks.

Simple automatic design functions provide for low operator, maintenance and training costs.

No gas or air scour required, reducing corrosion problems and providing a safer operating environment.

Positive retention of the media in the vessel which prevents media loss and disposal problems.

The feed pump is **never "dead headed"**. This eliminates pump damage, high pump wear and maintenance cost.

The **media is "force set" after clean-up** which prevents the media from stratifying and provides a homogeneous media bed. If the bed is allowed to settle by gravity, the small media particles will be on the top and the large particles will be on the bottom, thus all of the filtration will occur within the top few inches of the media bed. By "force setting" the full bed volume can be used for dirt holding. This will provide longer run times and less scrubbing or backwash fluid, thereby reducing disposal cost.

Does not require continuous venting. This allows more fluid for end use and reduces tank requirements or disposal cost.

Upstream flow is not interrupted. This lowers feed tank size and cost.

High flow rates in a compact design which reduces space requirements. A very low scrubbing or backwash fluid volume which results in a substantial reduction in disposal cost and smaller tank requirements.

Cost Saving Advantages



In order to reduce the price and cost of the **HYDROFLOW™** NUT SHELL filtration system, Absolute Filtration Industries Corporation has designed it with the following cost saving features:

- ❖ The media retention screens are constructed of tubular screens wound around perforated pipe, rather than a flat screen. This allows for a far simpler installation. The differential pressure of the **HYDROFLOW™** tubular screens is always above the maximum output pressure of the pump, and never below 80 psid.
- ❖ Not only do you get a better product, also lower maintenance and a much lower price.
- ❖ The **HYDROFLOW™** filter uses eastern black walnut shells as its filter media. Any material used as a filter media, in addition to being strong, that is resisting rupture, must also have a high modulus elasticity, that will resist deformation and recover its size and shape after deformation. The durability and quality characteristics of the eastern black walnut shell are proven by its ability to stand up and perform.
- ❖ The **HYDROFLOW™** media is type 3 in military specifications MIL-G-5634A and meets all quality requirements concerning same. By using this very high quality media, the attrition rate will be lower and cost of replacement media, as well as, operator maintenance time will be reduced.



Company Profile

Absolute Filtration, Inc was founded in 1989 and after several acquisitions and mergers, evolved into its' present name, Absolute Filtration Industries Corporation. It is incorporated under the laws of the state of Texas and its' corporate offices are located in Odessa, Texas.

AFIC founder, Jerry Hensley, was in the nut shell filter business for several years prior to establishing AFIC and has continued to be a leader in walnut shell filter development since that time. He is the inventor of several walnut shell filter patents and has extensive experience in the manufacturing, service, retro fitting, maintenance and operations of the walnut shell filters sold by AFIC, as well as most of the major competitor's filters.

In addition to the **HYDROFLOW™** "Walnut Shell Filter" manufactured by AFIC, we also have several complementary products:

- ❖ **Corrugated Plate Separator**
- ❖ **Induced Gas Flotation Cell**
- ❖ **IGF Tank System**
- ❖ **Automatic Backwashable Cartridge Filters**
- ❖ **Ultra Filtration**
- ❖ **Reverse Osmosis**

See our Full Capabilities Brochure

Represented By:



All of AFIC's products are constructed under strict control of in house Quality Assurance Programs, designed to exceed all US and international codes, with particular emphasis upon welding quality.



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