

# **CHAPTER 6**

## Filtration

### Nacto Filter Elements

#### DESCRIPTION

MistTrap™ Aerosol Coalescer Filter Element  
SureTrap™ Gas-Particulate Filter Element  
SureTrap™ Liquid-Particulate Filter Element  
SureTrap™ Carbon Filter Element  
FluidSep™ Liquid/Liquid Separation Filter Element

Natco's FluidSep™ Liquid/Liquid Separation Filter Element utilizes a specialty media that increases suspended water removal and decreases costs even under some of the most difficult situations for refiners.

Refinery products are negatively affected by water; therefore, refiners must put in substantial equipment, materials and labor into water removal. It is necessary to remove water from fuel due to its corrosive nature. Water contains various corrosive materials, such as chlorides and caustic that can wreak havoc on refinery or other types of equipment. Water can corrode tank bottoms and promote bacterial growth. Processes such as steam stripping, caustic treating and amine treating inherently add equilibrium concentrations of water under normal operating conditions

Natco's FluidSep™ Liquid/Liquid Element media is a composition of inorganic microfibers of various cross sectional diameters designed to maximize efficiency.

Great care is taken in fabricating the FluidSep™ filter media matrix into a durable filter element of superb quality. Materials used in this element (support cores, end caps seals, etc.) have been carefully selected to ensure fabrication integrity, fluid compatibility, and reliable collapse ratings

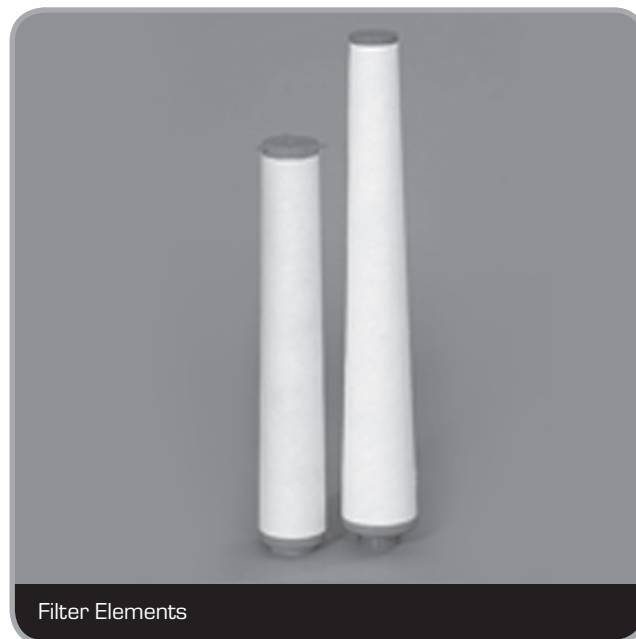
#### FEATURES

Cost Effective – Removes suspended water that can promote corrosion in equipment.

Beta Rated Filtration – Predictable efficiency to the specified particle size during the life of the filter.

Long Life – High surface area resulting in more holding capacity

Chemical Compatibility –FluidSep™ Filter Media is compatible with most process fluid chemicals



### Activated Carbon Adsorber Double Element Filter

#### DESCRIPTION

The ACF-750-2 filter is designed for 5 gallons per minute (max. 7.5 gpm) and will handle a glycol system with 1200-1500 gallons of glycol. Based on these parameters, the filter element should last approximately six weeks on a reasonably clean system.

- C1 – Inlet 2"
- C2 – Outlet 2"
- C3 – Press. Conn. 1/2"
- C4 – Drain 1/2"
- Head: Hinged Cap.
- ASME Code 50 psig @ 150°F

#### SPECIFICATIONS

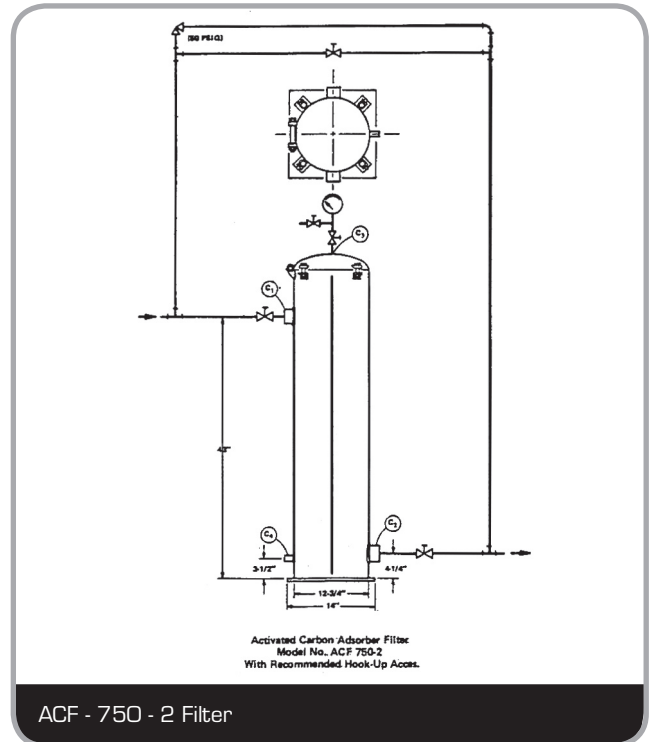
<b>Vessel</b>	Model No. ACF 750-2 Stock No. 48162512 Size: 12-3/4" * 4'-0"
<b>Working Pressure</b>	140psig ASME Code
<b>Design Flow Rate</b>	5gpm (max. 7.5 gpm)
<b>Filter Elements</b>	(LP920) No. 61282220 Model No. 1120-C Size: 10-3/4' * 20"
<b>Carbon</b>	Approx. 30 pounds (12 * 20 MESH)
<b>Closure</b>	O-Ring
<b>Replacement</b>	12" O-Ring No.47351012

#### ORDERING INFORMATION

Part No.	Description
48162512	Model ACF-750-2 Filter (Less Manifold and Valving)

\*Manifold and Valving Installed per Recommended Hook-up Drawing on Side.  
Quantity orders of 15 or more, full freights allowed.

Part No.	Description
61282220	Model 1120-C LP920 Replacement Elements (Two Elements Required)



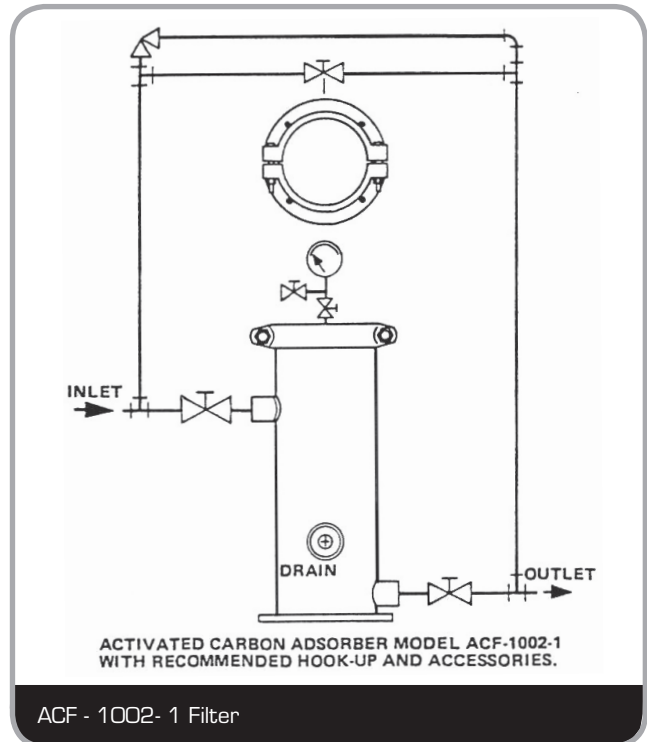
### Activated Carbon Adsorber Filter

#### DESCRIPTION

Average life of an ACF-1002-1 element on a reasonably clean system is usually between six to eight weeks.

#### SPECIFICATIONS

<b>Vessel</b>	Model No. ACF-1002-2 Stock No. 48162501 Size: 10" * 32"
<b>Working Pressure</b>	150psig PSIG W.P. non-code
<b>Max. Temp</b>	200°F
<b>Connection</b>	1"
<b>Flow Rate</b>	1-2 gal/min.
<b>Filter Elements</b>	Model No. LP830 Stock No.61282830 Size: 8" * 20"
<b>Carbon</b>	Activated carbon element Disposable cartridge
<b>Replacement</b>	Gasket No.47702250(G9)



#### ORDERING INFORMATION

Part No.	Description
48162501	Model ACF-1002-1 Filter Complete with One LP830 Element (Less Manifold and Valving)

\*Manifold and Valving Installed per Recommended Hook-up Drawing on Side.  
Quantity orders of 15 or more, full freights allowed.

Part No.	Description
61282830	Model LP830 Replacement Elements (Single Element Required)