



Liquid Filtration Units Types 61V and 61H

Remove solid particulates
from industrial liquid processes

Refining • Petrochemical • Oil & Gas



Filtration for industry:

- Efficiencies to 99.98% of 0.5 microns
- Depth and pleated cartridge styles
- Back-flush options
- Simplex and duplex vessel designs
- Applications include light hydrocarbons, amines, glycols, process water, and many others



WINSTON / ROYAL GUARD CORPORATION



Liquid Filtration Units

Types 61V and 61H

Winston/Royal Guard provides filtration solutions to protect process equipment, reduce maintenance costs, extend operational time and keep process streams within spec.

Type 61V Vertical and **Type 61H Horizontal** Liquid Filters remove solid contaminants from liquid process streams in refining, petrochemical, chemical, oil and gas, and other industries. As industrial liquid process filtration requirements vary, a large selection of filter cartridges are available to meet the specific application. Cartridge selections include many types, sizes, materials, end treatments, particle size retentions, and efficiency ratings.

Solids removal applications for Winston/Royal Guard liquid filters can be found in upstream injection well water to downstream processes, including hydrocarbon liquids, acids, process water, glycols, amines, and many other process liquids and finished products.



When solids loading is expected, the Type 61 Liquid Filter is an excellent choice for installation immediately upstream of a liquid-liquid coalescer such as our **Type 62-CC or 62-MM**. The highly efficient Type 61 Liquid Filter should be installed here to remove solid particulates which might otherwise lead to fouling of the coalescing cartridges and thus help to maintain peak efficiency of the coalescing unit and extend the time between cartridge change-outs.

In the case of the **Type 61V-C Activated Carbon Filter**, the unit should be protected upstream with reliable particulate filtration to prevent solid contamination from entering the carbon bed and congesting the open pores in the carbon granules. It is also important to provide particulate filtration downstream of the carbon filter to remove any carbon fines that may carry over. For both installations the Type 61 Liquid Filter is recommended.

Duplex liquid filtration system: For continuous operation during filter cartridge change-outs when downtime is not an option, a duplex, or dual configuration can be the solution. Typically, two Type 61 Liquid Filters are mounted on a common steel base and equipped with heavy duty valves for switching between the active and idle filtration units. When requested, customer specified valves can be furnished with the system.

Options include:

- Back-flushable cartridges.
- Lifting eye(s).
- Quick-opening closure providing easier access for cartridge change-outs.
- Dual skid-mounted with valves and piping for ease of installation.
- Other customer requirements.

Winston/Royal Guard is an ASME Section VIII, Division 1 Code certified manufacturing facility with National Board certification. Capabilities include all types of non-destructive testing with a rigidly controlled Quality Control system.

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Liquid Filtration Units

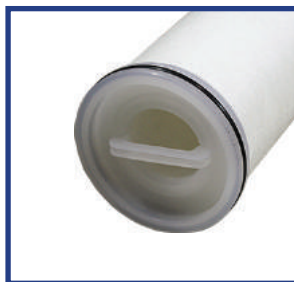
Types 61V and 61H

Filter Cartridges are available in a variety of types, styles, and ratings so as to meet stringent application requirements for liquid process filtration. Some examples of our filter cartridge types are:

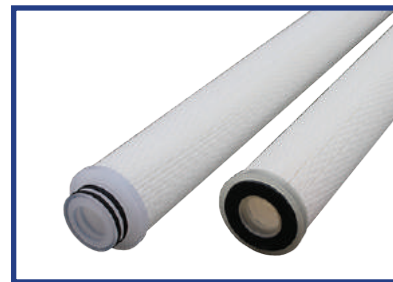
- **WCC series wound fiber depth style cartridges** available with media in cotton, fiberglass, nylon, acrylic/orlon, polyester, polypropylene and Rayon. Particle retention sizes are 0.5, 1, 3, 5, 15, 20, 25, 30, and up to 200 microns.
- **WLP-L pleated series cartridges** provide the maximum surface area for trapping large amounts of contaminants with the added benefit of longer service life between change-outs. For a wide range of chemical compatibilities, cartridges are available in microglass, polypropylene, and polyester, with a selection of end treatment materials and designs. Micron ratings are from 1 to 70 with efficiencies to 99.98%.
- **WLST stainless steel series cartridges with stainless steel wire mesh construction**, are designed to perform in applications outside the range of other filter medias and are ideal for removal of solid contaminants in industrial filtration applications with harsh, corrosive and/or high temperature liquids. The pleated design offers the maximum filtering surface area for higher flow rates and longer operation time. Absolute rated efficiencies from 5 to 840 microns. Back-flushable options.
- **WHFP high flow pleated series cartridges** for vertical and horizontal installations provide maximum surface area for higher liquid flow requirements. These cartridges are typically 6" diameter and feature handles for easy removal and O-rings for positive sealing. Materials available are pleated polypropylene, polyester, microglass, and others. Particle retention sizes: 1, 2, 5, 10, 15, 20, 40, or 70 microns.



WCC Series wound fiber
filter cartridges



WHFP High Flow Pleated
Series filter cartridges



WLP-L Pleated Series
filter cartridges



WLST Pleated Stainless Steel
Series filter cartridges



Liquid Filtration Units

Vertical Type 61V



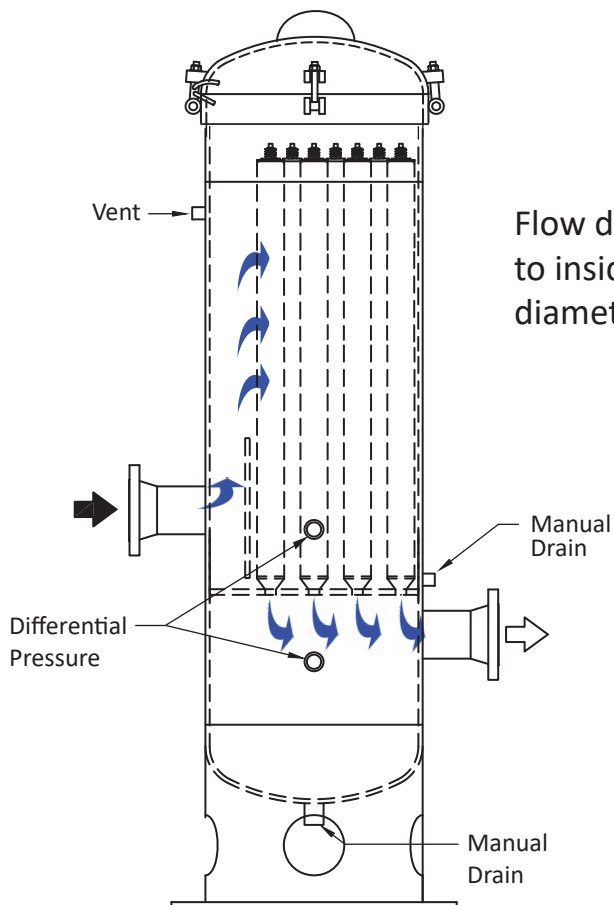
WCC Series wound fiber
filter cartridges



WLP-L Pleated Series
filter cartridges



WLST Pleated Stainless Steel
Series filter cartridges



Flow direction is outside
to inside through 2-1/2"
diameter filter cartridges



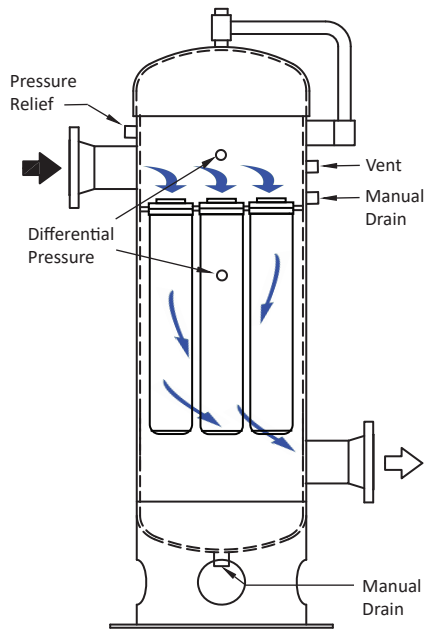
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Liquid Filtration Units

Types 61V and 61H

with High Flow Filter Cartridges



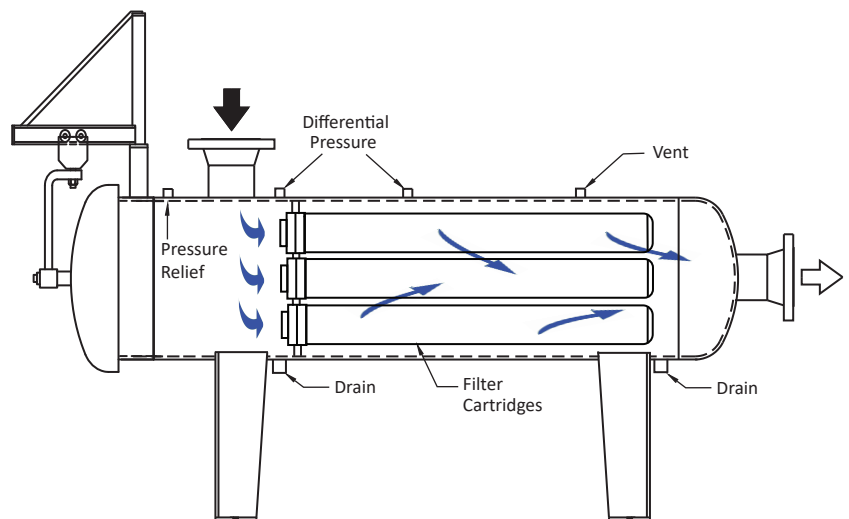
WHFP High Flow Pleated Series Filter Cartridges with large surface area for maximum liquid flow and solids retention

6" diameter filter cartridges with flow direction inside to outside

Type 61V Vertical Liquid Filter



Type 61H Horizontal Liquid Filter



Specifications are subject to change without notice. 11-15-2023 (supersedes 6-11-2021)

WINSTON / ROYAL GUARD CORPORATION

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