



WINSTON / ROYAL GUARD CORPORATION

Type 61V-C Vertical Liquid Filters with Activated Carbon

The Type 61V-C Liquid Filter with virgin **activated carbon** granules removes dissolved hydrocarbons and other impurities from amine and glycol processes for the prevention of foaming and reduction of corrosion. The “activated” carbon has been processed typically by exposure to high temperature steam to open pores in each carbon particle. The activation process adds a much greater surface area and thus provides many times the adsorbing capabilities of the carbon. Typically, two or more low flow canisters filled with activated carbon are stacked inside the vessel.

Shown at right is the Type 61V-C with quick-opening closure and support skirt, and a radial flow carbon canister with perforated exterior housing.



How it works: A low volume liquid flow enters the filter housing and into the carbon-filled canisters. Here, the impurities are removed as they come into contact with the activated carbon and are adsorbed onto the exterior and interior porous surfaces of the carbon particle. The impurities do not “absorb”, or assimilate into the carbon, but rather they “adsorb”, or accumulate on the carbon’s external surfaces. “Activating” the carbon creates pores throughout the granule which creates many times the original surface area. Typically, the carbon canisters are stacked two or three high and have a radial flow from outside to inside. The canisters are provided with a gasket on each end for excellent sealing and a top cap on the uppermost canister. The recommended flow rate for each canister is 1.5 GPM. For higher flow rates, multiple stacks of canisters may be employed.

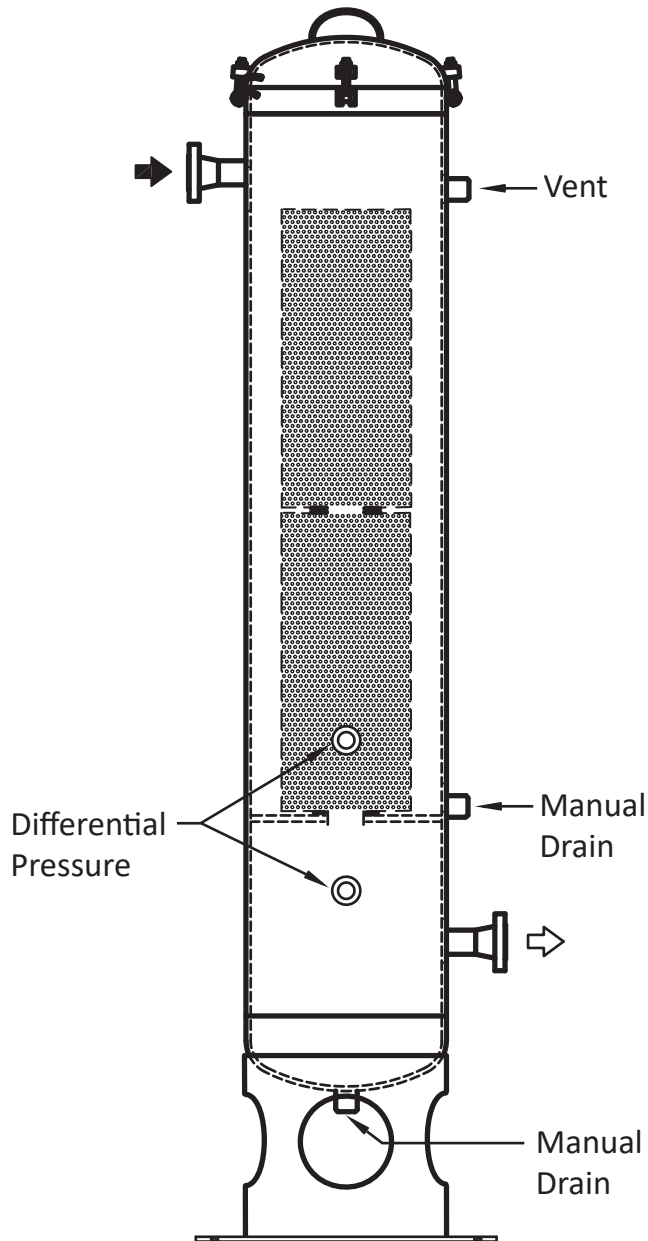
The carbon filter should be protected upstream with reliable particulate filtration to prevent solid contamination from entering the carbon bed and congesting the open pores in the carbon particles. It is also important to provide particulate filtration downstream of the carbon filter to remove any carbon fines that may carry over. For both installations our Type 61 liquid filter is recommended.

Options include ASME Code stamp, Quick-opening closure, various support styles, lifting eyes, and other customer requirements.

ASME Code Certified: 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.



Type 61V-C Vertical Liquid Filter with Activated Carbon



**WCFL-1122R Radial Flow Canister
with perforated exterior**



Activated Carbon Granules

Specifications are subject to change without notice. 7-6-2018

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