



WINSTON / ROYAL GUARD CORPORATION

Type 140 Gas-Liquid Coalescers

The Type 140 Gas-Liquid Coalescer recovers aerosol and larger size liquid particles from a gas stream. Although primarily designed for liquid removal, extremely fine solids will also be captured. These coalescers have applications in natural gas processing, refining, petrochemical, and others. The Type 140 is typically furnished in a more efficient vertical configuration so as to prevent coalesced liquids from falling onto and flooding a lower cartridge.

Shown at right: a Type 140 Gas-liquid Coalescer ready for installation at a major gas producer in Colorado.

How it works: Gas entering the vessel travels upward into the coalescer cartridges. Passing through the cartridges in an inside-to-outside flow path, aerosol and larger entrained liquid particles coalesce into larger droplets as they move through the media.

The enlarged droplets exit the coalescing cartridges and fall to the bottom of the vessel. The exterior drainage layer of the cartridge assists in this process. The coalesced liquid is recovered and clean, dry gas exits the vessel.

Applications:

- Recovering lubrication oil downstream of compressors.
- Removing liquids from natural gas to protect compressors, turbines, glycol absorbers, desiccant dryers, molecular sieves, and other downstream equipment.
- Reducing foaming and recovering amine in sweetening processes.

Options:

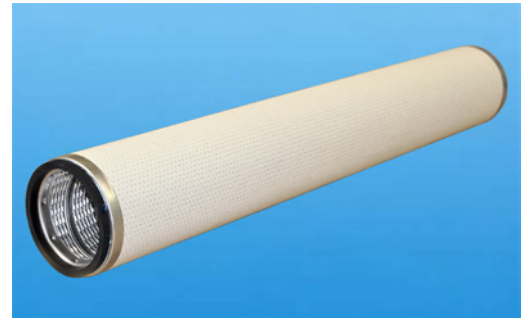
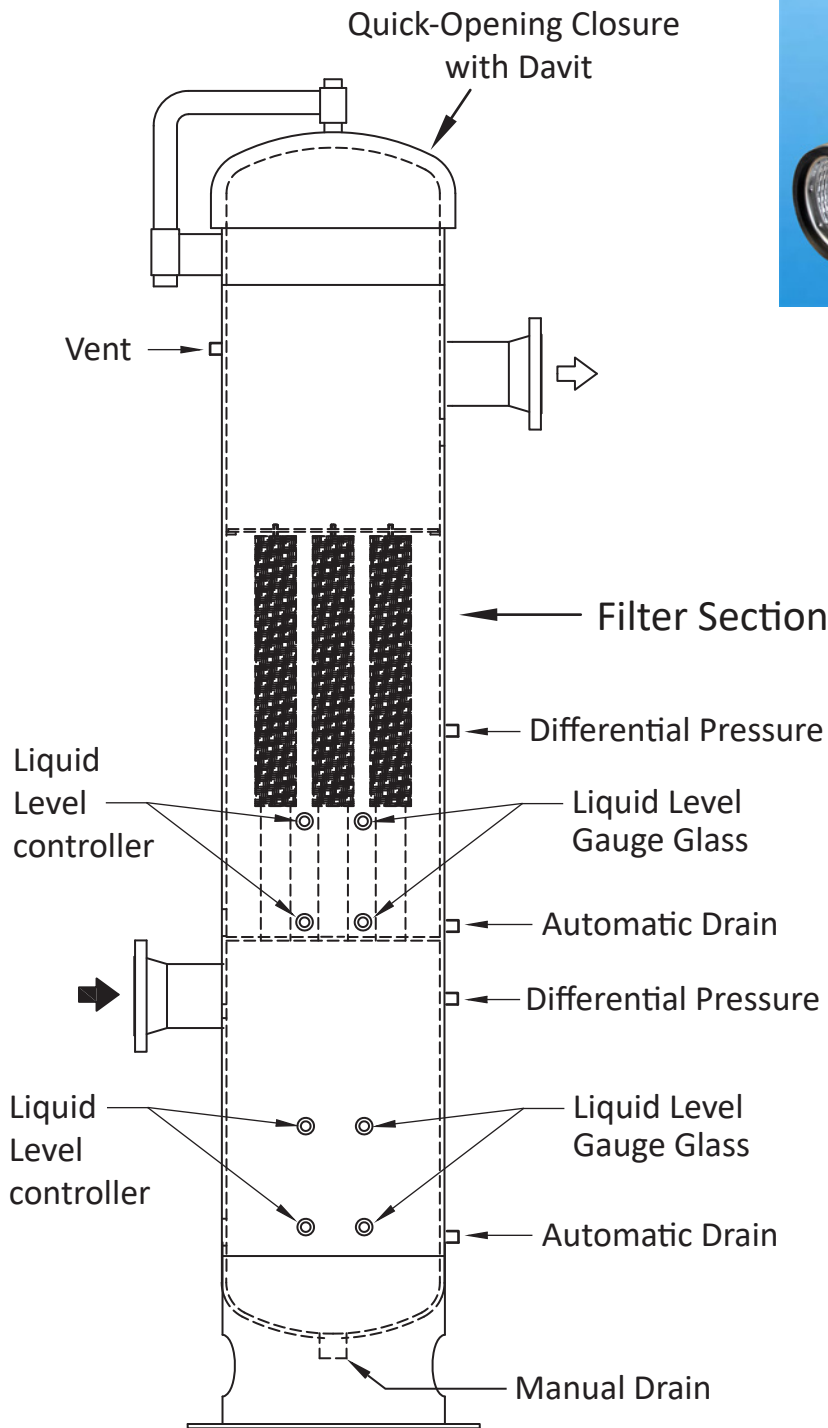
- The standard cartridge removes 99.9% of 0.3 micron particle size.
- Higher efficiency cartridges of up to 99.98% of 0.3 micron particles are available.
- Lifting eye(s).
- Quick-opening closure for ease of cartridge change-out.
- If requested by customer, we will manufacture our vessel to accommodate other major brands of equivalent filter cartridges which are designed for the application.

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.





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Coalescing Filter Cartridge

NOTE:
Connections shown are typical and will vary with customer requirements.

Specifications are subject to change without notice. 3-14-2018

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