



WINSTON / ROYAL GUARD CORPORATION

Type 150 Filter-Separators

The Type 150 Natural Gas Filter-Separator removes liquid and solid particles from a gas stream for the protection of compressors, turbines, and other downstream equipment. Various installations include compressor stations on gas gathering and gas transmission lines, and plant entrances at gas plants, refineries, petrochemical plants, power plants, etc. The filter separator is available in a horizontal or vertical configuration.



How it works: As the gas stream enters the first stage of the filter-separator, heavier liquids will fall out due to loss in velocity and gravitational effects and then drain out. Aerosol mist and larger liquid particles, without enough mass to be pushed through by the gas flow, become trapped in the media of the cartridges. As additional liquid particles enter the media, they coalesce until they are large enough to be pushed through. These liquid droplets are then removed from the gas stream in the second stage by the separator internal. Solid particulate matter is captured in the filter cartridges and removed when the disposable cartridges are changed out. Gas exiting the filter-separator is 99.9% free of liquid and solid particles.

Separator Designs: Filter-separators are available with either our Vane separator internal or Directional Blade™ separator internal. Both designs are highly efficient for removal of liquids and each has its own benefits.

Directional Blade™ Separator Internal: Our Directional Blade™ filter-separator efficiently removes liquid and solid particles from gas and takes up less space with a smaller diameter vessel. This compact design has cost-saving benefits as well as applications where space may be limited.

Vane Separator Internal: Our filter-separator with the Vane separator internal is equally efficient for removal of liquid and solid particles from gas. Due to its typically larger vessel diameter, this design contains more filter cartridges with the benefit of longer operational periods between filter change-outs.

Filter cartridges typically provided in the Type 150 Filter-Separator are:

- WCL536 (0.3) depth type with combination glass fiber and polypropylene materials with a rating of 0.3 micron at 99.9% efficiency (beta 1000), or
- WMGL536 depth type microglass with ratings of 0.3 or 1 micron at 99.9% efficiency (beta 1000).

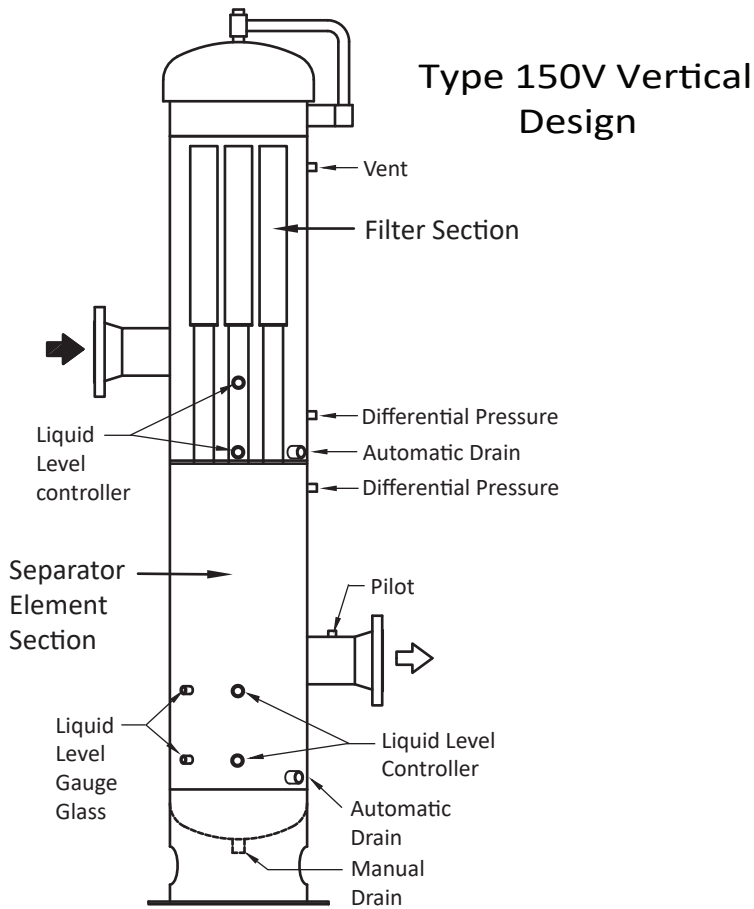
Options:

- Horizontal or vertical design.
- Various vessel support styles.
- Lifting eye(s).
- Quick-opening closure for ease of cartridge change-out.
- Other customer requirements.

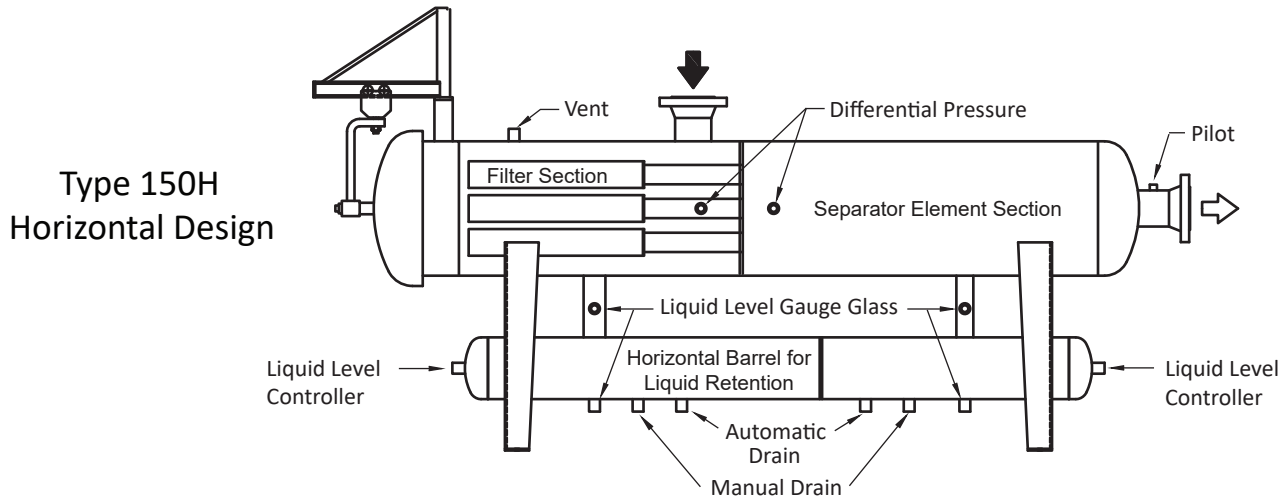
ASME Code Certified: Winston/Royal Guard is an ASME Section VIII, Division 1 Code certified manufacturing facility with National Board certification. Capabilities include all types of non-destructive testing with a rigidly controlled Quality Control system.



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Filter cartridges showing the open and closed ends



Specifications are subject to change without notice. 4-11-2019 (supersedes 3-14-2018)

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P. O. Box 1145 • White Oak, Texas 75693 USA

Phone (800) 527-8465 • (903) 757-7341 • Fax (903) 759-6986

Winston-RoyalGuard.com • e-mail: sales@winston-royalguard.com

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