



# **Dry Gas Filtration Type 65BT**

*with basket-type cartridge*



***Pipeline  
Refining  
Petrochemical***

***Removes rust,  
scale, dust, dirt,  
desiccant carryover***

***Protects valves,  
meters, regulators,  
instrumentation***

## **Dry Gas and Air Filtration:**

- Compact design
- Efficiencies to 99.9% of 1, 2, or 10 microns
- Pleated polyester basket-type cartridge eliminates spillage with change-outs

**WINSTON / ROYAL GUARD CORPORATION**



# Dry Gas Filtration Type 65BT *with basket-type cartridge*

**The Type 65BT Dry Gas Filter features a basket-type filter for change-out without spillage of trapped solid contaminants**

**The Type 65BT Series Dry Gas Filter** removes dry particulate contaminants such as rust, dust, pipeline scale, and desiccant carryover from gas or air streams for the protection of valves, regulators, meters, instrumentation, and other equipment in refineries, petrochemical plants, natural gas pipeline stations, and others. The compact vertical design allows for removal and replacement of the filter cartridge with the advantage of containing captured solids without spillage.

**How the filter works:** The gas enters the filter housing and flows downward into the open top of the basket-type filter cartridge and outward through the pleated media. With this single open end cartridge, the solid particulates are collected in the interior of the filter basket for easy change-out through the top of the vessel housing. A Buna O-ring provided in the top of the cartridge ensures no bypass and allowing clean gas to exit the filter vessel.



With the large surface area of the pleated design, the polyester cartridge provides the maximum dry contaminant holding capacity. The filter is an excellent choice for expected high solids loading and has a very low clean pressure drop. With a pleated design, the filter cartridge offers a longer service life between cartridge change-outs resulting in lower maintenance costs and increased operational efficiency.

The Type 65BT Series Dry Gas Filter can be provided with inline or offset nozzles:

- **Type 65BT-IL** inline style nozzle configuration for a continuous straight piping arrangement.
- **Type 65BT-OS** offset style nozzle configuration for a higher inlet and an opposite side lower outlet allowing for a parallel arrangement or a rotated outlet.
- **Type 65BT-PD** with a parallel arrangement, one nozzle above the other for a duplex assembly (valves, supports, etc. can be provided).

**Options:** Support legs, lifting eye(s), quick-opening closure, differential pressure connections, vent, 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.

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# Dry Gas Filtration Type 65BT *with basket-type cartridge*

## **Basket-type filter cartridge for removal without spillage For Winston/Royal Guard Type 65BT Dry Gas Filtration units**

WBPEL Series pleated polyester filter cartridges are designed for use in the Winston/Royal Guard **type 65BT Dry Gas Filter** for longer service life and efficient removal of pipeline scale, rust, dirt, desiccant carryover, and other solid particulates from a gas or air stream. With a large surface area the pleated media cartridge is an excellent choice with maximum dry contaminant holding capacity with the benefit of lower operating pressure drop and less frequent cartridge change-outs.



With this single open end cartridge, the solid particulates are collected in the interior of the filter basket for easy change-out through the top of the vessel housing without spillage. The polyester filter media is provided with tinned steel end caps. A Buna O-ring is provided in the top cap of the cartridge to prevent bypass.

### **BENEFITS:**

- Longer service life between filter cartridge change-outs resulting in lower maintenance costs.
- Pleated media offers greater surface area and lower pressure drop.
- Excellent solids retention and absolute rated at 99.9% efficiency

### **OPERATION SPECIFICATIONS:**

- **FLOW DIRECTION** is inside to outside.
- Material: pleated polyester.
- Recommended differential pressure for cartridge change-out is 15 PSI.
- Maximum operating temperature: 240° F.

### **STANDARD PART NUMBERS, DIMENSIONS, AND MICRON RATINGS:**

- WBPEL509 (2): 5.6" diameter, 9" long, with a rating of 2 microns.
- WBPEL519 (1): 5.6" diameter, 19" long, with a rating of 1 micron.
- WBPEL819 (10): 8" diameter, 19" long, with a rating of 10 microns.

Specifications are subject to change without notice. 6-21-2021 (supersedes 2-12-2021)

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