

User Manual of SF6 gas Pre-Filter unit



Pls read carefully before using

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1、 Introduction

RF-F (Mini) Pre-filter is a dry and particle filter, which is used for SF₆ gas electric equipment when recovery SF₆ gas, it can deal with moisture, dust in SF₆ gas.

2、 Technical parameter

Model: RF-F (Mini)

Description: pre-filter

Working medium: SF₆

Filter: Activated Alumina and Dust filter

Design pressure: 50bar

Filter precision: 1um

Treatment impurities: Moisture, dust of SF₆ gas,

Annual leakage rate: <1%

Operation Temperature: -10~ 50°C

Storage Temperature : -10~ 50°C

Weight: About 10 kg

Dimension: 25cm (L) x 5cm (W) x 40cm (H)

Package: Carton box

3、 Structure

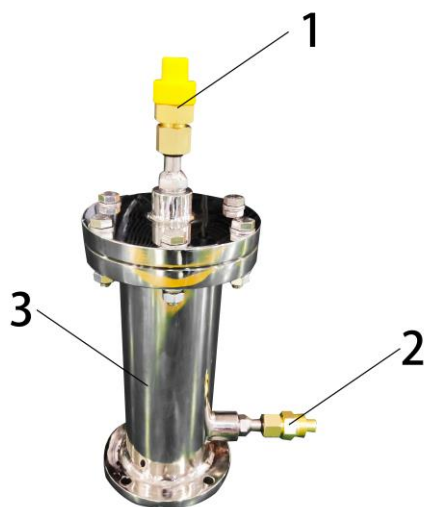


Diagram 1 outside drawing

- (1) SF₆ outlet
- (2) SF₆ inlet
- (3) Dry filter & Dust filter

4、Using requirement

- ◆ Operation environment: The filter is placed firmly and shockproof, there is no strong vibration and strong electromagnetic interference around, no dangerous, explosive, corrosive gas and dust.
- ◆ Relative humidity: <85% non-condensation

5、Safety requirement



Warning

- ◆ Filter vessel is a special gas pressure vessel, the use should comply with the pressure vessel safety regulations.
- ◆ Equipment users must be trained in SF₆ gas with knowledge and equipment operation skills.
- ◆ Ensure the air tightness to prevent leakage.
- ◆ When using filter, the external connection pipe must be sealed reliably, leakage is strictly prohibited.
- ◆ Filter should be stored in a cool place. Direct sunlight is strictly prohibited.



Note

- ◆ When you do not use filter, the air inlet and outlet should be covered with dustproof cover, and pay attention to waterproof, moisture proof and anti-corrosion.

6、Using equipment

- (1) Connect filter inlet to gas equipment

- (2) Connect filter outlet to SF6 gas refilling and recovery device
- (3) Check the air tightness of pipeline connection, confirm that the air tightness is qualified and open the pipeline valve.
- (4) The refilling and recovery device is used to vacuum the filter, reaching 133Pa or less, and continue vacuuming for 30mins.
- (5) Using SF6 gas refilling and recovery device for recovery.
- (6) When finishing work, fill N2 gas to ensure the pressure of filter is slightly positive.

7、Maintenance

- (1) Keep the outside of the equipment clean and tidy.
- (2) Ensure that the pressure of the equipment container is slightly positive after using.
- (3) The equipment is placed in a cool and backlit place to prevent direct sunlight.
- (4) Ensure the inlet and outlet air connection port self-sealing valve sealing reliable, to prevent leakage.

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