

RF-300J SF6 Recycling and Purify Device



1. Application Field

It is applied to recycle SF6 in high-voltage switch factories, electric institutes, power plants, power supply bureau, transformers or GIS、 Gas concentration treatment stations, etc. This device can recycle and purify the SF6 gas with low pressure and cool technology. It can filter and recycle the SF6 gas to storage tank by molecular sieve and refilling the SF6 gas in storage tank to cylinder, and also has the function of refilling SF6 electrical switchgear.

2. Main Features

- Recycling SF6 gas, integrate functions of liquefy and store
- Regenerative filter system, can filter moisture, decomposition, dust and other impurity in SF6 gas
- Particular patent filtering technique, and can absorb highly toxic sub fluoride in SF6 high-voltage switchgear
- The unique recycling technology can recycle container to negative pressure state the recovery rate is above 96%
- Recovery, exhaust gas purified by the pool and toxic emissions; The exhaust gas can be non-toxic emission by neutralization pond after recovery and purification
- Can recycle more than 2 ways gas and extract the gas quickly in SF6 gas chamber
- Can optional gas cylinder heating and weighing device, easy to refill and calculate for gas
- Can do vacuum process for the device

3. Technical parameters

Dimensions:	2400X1400X2150(mm)
Power supply:	AC380V, 60Hz / AC 380V, 50Hz(could customize)
Maximum power:	20KW
Weight:	about 1800kg
Volume of gas holder:	300L, 600L, 1000L...

Vacuum pumping speed:	64m ³ /h(Max)
Limit vacuum degree:	≤0.1mbar
Recovery of inlet pressure:	<0.6MPa
Refilling of cylinder pressure:	<3.5MPa
Recovery speed:	150kg/h(Max)
Inflation speed:	80kg/h(Max)
Operation environment:	Temperature: -10°C ~+50°C Humidity: <85%RH non condensation
Annual leakage rate:	≤1%
Noise:	<75dB(A)
Storage tank design pressure:	5Mpa
Purifying capacity:	
Moisture content:	≤40ppmv
Acid value:	≤40ppm/wt
CF4:	≤0.04%
Air:	≤0.04%
Purity:	≥99.9%
Dust Filtration precision:	< 1μm Particle size of dust particles
Oil:	≤4/ 10 -6
Toxicity:	Nontoxic after biological experiment
Accessories with machine:	
With self -sealing gas and liquid delivery pipe: 1 stalk, 3 meters	
With self -sealing recovery pipe: 1 stalk, 3 meters	
Power cord: 1 stalk, 10 meters	
English Operation Manual(1 copy)	
Certificate of quality (1 copy)	
English Testing report (6 copies)	

4. Selection Table

RF-300J SF6 Recycling and purify Device				
Control Mode Items		Touch screen control		
Equipment	Technical parameter			
compressor	30m ³ /h, ≤3MPa	●		
Vacuum compressor	15 m ³ /h,	●	○	○
	≤5×10 ⁻³ MPa			
	20 m ³ /h,			

	$\leq 5 \times 10^{-5} \text{MPa}$					
	40 m ³ /h, $\leq 5 \times 10^{-5} \text{MPa}$					
Vacuum pump (or roots pump)	64 m ³ /h, $\leq 10 \text{pa}$	●	○	○	○	○
	100 m ³ /h, $\leq 10 \text{pa}$					
	200 m ³ /h, $\leq 10 \text{pa}$					
	300 m ³ /h, $\leq 10 \text{pa}$					
	251 m ³ /h, $\leq 0.8 \text{pa}$					
	505 m ³ /h, $\leq 0.8 \text{pa}$					
Filling machine	5 m ³ /h, $\leq 5 \text{Mpa}$					●
Storage tank	300L					●
Refrigerating unit	/					●
Germany technical valve group	/					●
Air cooling device	/					●
dry absorption filter	/					●
dust floccus filter	/					●
vacuum sensor	/					●
Emergency stop button	/					●
Power supply indicator	/					●
Fixed and universal wheels.	/					●
Self-sealing tube	DN13, 3m, 1pc					●
self-sealing tube:	DN19, 10m, 1pc					●
Power supply	10m, 1pc					●
Note: “●” means standard configuration; “○” means optional; “—” means not optional						

