

## RDQH -60/200 SF6 Recovery System

As an insulating gas, SF6 gas has non-toxic, non combustible and good insulating properties. Its insulating strength is much higher than that of traditional insulating gas, and it has good arc extinguishing property. Therefore, SF6 gas is widely used in SF6 Electrical appliances. Because



SF6 gas is expensive, and under the action of arc, electric spark and corona discharge, it will decompose and produce toxic components. Therefore, SF6 gas needs to be recovered when SF6 Recovery System is used. The device is a special equipment for recovering and filling SF6 gas when manufacturing and maintaining SF6 Recovery System.



### Product Features

1. The built-in filtration and absorption system can absorb impurities, water, decomposition products and oil in SF6 gas.
2. Integrated design and small volume make it easy to move and use.
3. High efficiency filter maintenance free system, greatly ensuring the quality of SF6 gas recovery.
4. The built-in phase sequence protector can avoid the worry that the host will reverse due to phase sequence error at any time.

5. All electrical systems are of high quality brand.
6. High quality casters will greatly protect the ground paint and reduce the labor required for pushing.
7. The whole machine is air-cooled without external water source.
8. The built-in temperature protection system can work normally even at - 20 °C.
9. The built-in drying and heating system can ensure that the desiccant can be activated and regenerated by equipment heating after saturation, so the desiccant does not need to be replaced.
10. All ball valves are sealed elements with automatic compensation performance.
11. It has built-in electromagnetic valve power-off protection function, to prevent vacuum pump power-off or motor seizure return oil.



## Product specifications and technical parameters

### 1. Basic parameters of the device

Number	Project	Company	Specifications and parameters
1	Product model		RDQH-60/200
2	Power AC		380V (phase sequence automatic conversion), 50Hz
3	Rated maximum gas storage pressure (20 °C)	MPa	≤4

4	Device vacuum maintenance		When the pressure is maintained at 133 Pa for 24 hours, the vacuum value rises < 400 Pa
5	SF6 compressor		Domestic quality
6	Vacuum pump		Direct coupled pump
7	Recovery device adapts to inlet initial pressure (20 °C)	MPa	0~1.0
8	Final recovery pressure of electrical equipment (20 °C)	kPa	≤50
9	Gas oil control after recovery	μg/g	Domestic oil content < 10
10	Annual air leakage rate of unit	%	< 1
11	Continuous trouble free operation time of the device	h	≥1000
12	Accumulated trouble free operation time	h	≥5000
13	noise level	dB	The whole machine is less than 75.
14	Theoretical storage capacity	kg	200
15	Refrigeration liquefaction compressor		Domestic quality
16	Gas moisture after recovery	PPM/V	60
17	Gas oil after recovery	PPM/V	10

18	Dry filtration method		Vacuum heating activation regeneration
19	Initial pressure of inflation	Pa	$\leq 133$
20	Inflation final pressure	MPa	0.8
21	Gasification mode		Automatic temperature control of electric heating
22	Vehicle type		Hand push Mobile
23	Cooling mode		Air cooling

## 2. Main component parameters

Name	project	Company	Specifications and parameters
SF6 compressor	Theoretical exhaust volume	m <sup>3</sup> /h	19
	Maximum discharge pressure	MPa	2.5
	Allowable discharge pressure	MPa	1.96
	Minimum allowable suction pressure	KPa	53
	Maximum allowable suction pressure	MPa	0.3
	Maximum exhaust temperature	°C	130
	Lubricating oil		HD25 refrigerant oil
	power	kW	3.7
	Power Supply		380V, 50Hz

Vacuum pump Direct coupled pump	Pumping rate	m <sup>3</sup> /h	60
	Extreme vacuum	Pa	$\leq 5 \times 10^{-2}$
	Lubricating oil		Vacuum pump oil
	power	kW	2.2
	Power Supply		380V, 50Hz
Refrigeration unit	Standard cooling capacity	W	6100
	Cryogen		R22
	Maximum refrigerant charge	kg	2.0
	Lubricating oil		HD25 refrigerant oil
	power	kW	3.8
	Power Supply		380V, 50Hz
Gas storage tank	Container class		Two category
	Design pressure	MPa	4.0
	Design temperature	m <sup>3</sup> /h	50
	Volume of storage container	L	200
	Storage container storage capacity	kg	200



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