GDQH-601 SF6 Gas Recycling Machine

Product Description

The Test set includes SF6 compressor, vacuum pump, condensation system, liquid storage tank, purification system built-in renewable dry filter, dust filter, ball valve, vacuum gauge, electric system, pressure detection, thermometer, alarm control and instrument panel.

It is suitable for SF6 electrical equipment, GIS manufacturer and institute.

Features

- SF6 switchgear, GIS gas vacuuming and measurement.
- Liquefaction tank vacuuming and measurement.
- Vacuuming for device itself and measurement.
- Gas Refilled for SF6 switch.

- Recycle SF6 gas of electric equipment including water treatment and oil treatment.
- Dry SF6 gas of recycling or refilling and purification treatment.
- Recycle SF6 gas of SF6 equipment and liquid storage, residual voltage measurement.
- Storage tank containing 50L volume.
- Compressing liquid to storage for SF6 gas.
- Easy to move.

Specifications

Mode		Frozen liquefaction, air cooling, movable
Working environment temperature		-10℃～40℃
Recycle	Initial pressure(Mpa)	0.8
	Terminal pressure(Mpa)	≤0.05
	1m3 Volume necessary time(h/m3)	≤1
Air inflation	Initial pressure(Pa)	≤133
	Terminal pressure(Mpa)	0.8
	1m3 Volume necessary time(h/m3)	≤0.3
Time for vacuuming from 0.1Mpa to 133Pa (h/m3)		≤0.5
Limit vacuum (Pa)		≤10

Yearly leakage rate		≤0.5%
SF6 gas purity after recycle	Water(PPM/V)	≤60
	Oil (PPM/W)	≤3
	Dust (um)	≤1
Storage	Storage mode	liquid
	Pressure(MPa)	4.0
	Volume(L)	50
	Liquid storage quantity(kg)	50
Liquefaction mode		Frozen liquefaction
Vaporization mode		Electric heating
Dry filter regenerative way		Vacuum heating Activate regeneration
Power supply		Three phase five line 3Φ 380V zero line available
Total power (kW)		11
Noise dB(A)		≤75
Dimension (mm)		1450mm*810mm*1200mm
Weight (kg)		≤500KG

Main Configuration

1. SF6 compressor (Using halogen SF6 special semi-closed compressor, brand Copeland)

a. Gas displacement: 0-13m^3/h

b. Max. Discharge pressure: 2.5Mpa

c. Min. Suction pressure: 50Kpa

d. Max. Suction pressure: 0.35-0.8Mpa

e. Power: 2.2kW

f. Power supply: 380V, 50Hz

2. Vacuum pump, using twin-stage direct connection vacuum pump.

a. Vacuum pump is air-cooled type, continuous running

b. Vacuuming rate: 40m^3/h

c. Limit Vacuum degree: 0.06pa

d. Power: 1.5kW

3. SF6 Refrigeration Set, requirement is main engine 1.35kW, 2000kcal/h, R22, 380V, 50Hz

4. Filtering system(purification system)

It has filter from USA Hankison inside, dry filter(molecular sieve can vacuum and activate and then make recycling treatment), to remove solid dust, water or decomposition products from the gas.

5. Valve, DN15--13.5Mpa, special for SF6 gas

6. High voltage connection tube, 2pcs, connector: inner M27*1.5mm

7. Cylinder converting connector, one piece

8. Liquefier, one piece