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SF6 GAS DETECTING EQUIPMENT FROM WRINDU



Rui Du Mechanical and Electrical (Shanghai) Co., Ltd.

SF6 Gas Recovery And Purification Unit

SF6 Vacuum Pumping and Charging Device

RDQH -60/200K6

1.Operation mode	Fully automatic PLC control
2.Working temperature	-10℃ ~ 50℃
3.Liquefaction method	Freezing liquefaction
4.Dry filter regeneration mode	Vacuum heating activation regeneration
5.Power supply	3Φ 415V 60HZ
6.Total power (kW)	≤13
7.Noise level	The whole machine is less than 75dB



- 1.Adopts the design principle of internationally advanced high-pressure liquefaction method.
- 2.Equipped with a self-regenerating dry filter.
- 3.Capable of pressing SF6 gas into steel cylinders.
- 4.The flow chart is displayed on the PLC touch screen.
- 5.Adopts air-cooling and mobile design.
- 6.Adopts customization service.

RDQC - 300K6

1.Working environment temperature	-10℃ ~ 50℃
2.Power supply	Three-phase four-wire system 3Φ 380V/415V 60HZ
3.Total power(kW)	≤13
4.Noise level	The whole machine is less than 75dB



- 1.A vacuum gauge for displaying vacuum degree.
- 2.Various connection adapters for imported and domestic SF6 electrical equipment.
- 3.Automatic three-phase power supply confirmation, manual adjustment, and phase-loss protection of the electrical system.
- 4.The power failure protection function.
- 5.High-performance components requiring no maintenance even after long-term use.
- 6.Adopts customization service.

SF6 Gas Purity Tester

RDCDF-706

1.Measuring range	purity: 0 to 100%
2.Accuracy	purity: ±1%
3.Resolution	purity: 0.1%
4.Repeatability	purity: ±0.5%
5.Pressure range	0 ~ 1MPa
6.Gas flow rate	0.3 ~ 0.4L / min
7.Measuring time	5 minutes
8.Operating voltage	110 ~ 220VAC, AC and DC



- 1.5.0" TFT touch screen design.
- 2.32-bit ARM MCU.
- 3.Separately designed air way and circuit.
- 4.Large capacity storage function.
- 5.Digital display of battery electric quantity.
- 6.Good repeatability, high response speed.
- 7.Automatic calibration of gradient.
- 8.Color LCD display.
- 9.Advanced probe protection function.
- 10.Anti-pollution, anti-disturbance.

SF6 Intelligent Micro Water Tester

RDWS-142

1.Measuring range	-60 °C～+20 °C
2.Measurement accuracy	±2°C
3.Response time (+20°C)	63% in 45 seconds, 90% in 90 seconds
4.Power Supply	AC 220V, Built in rechargeable battery
5.Battery Performance	Charging time more than10 hours, can be used for 5 hours



- 1.Portable design for easy carrying and use.
- 2.Self-calibration ensures accuracy without annual recalibration.
- 3.Fast measurement with no preheating required.
- 4.Low gas consumption (2L) during testing.
- 5.Built-in 4Ah battery for 5 hours of continuous use.

SF6 Intelligent Micro Water Tester

SF6 Decomposition Product Tester

RDWS-242

1.Dew point measuring range	-60°C ~ +20°C, resolution 0.01°C
2.Micro water	0 ~ 30000ppm, resolution 1ppm
3.Intake pressure	0 ~ 1.0 Mpa
4.Flow rate	0.01 ~ 1.00 L/min
5.Battery performance	Charging 8 hours, it can be used for more than 10 hours



- 1.Self -calibration ensures accurate measurements by eliminating system errors.
- 2.Large touch LCD screen for easy ,WYSIWYG operation.
- 3.Fast and gas-saving ,with dew point measurement in about 3 minutes.
- 4.Safe, reliable self-locking joint with no air leakage.
- 5.Stores up to 1 000 test data sets and operates for 12 hours on a single charge.

RDFJF-708A,RDFJF-708B

1.Ambient temperature	-40°C～ +60°C
2.Ambient humidity	0～100% RH
3.Power source	AC 100～240V 50/60Hz Built-in rechargeable battery
4.Charging time	10 hours, Use time is more than 12 hours
Can test H2S, SO2, CO and HF (only for RDFJF-708B)	



- 1.The sensor probe auto -calibrates to ensure accurate measurements.
- 2.User-friendly 5-inch touch LCD screen for easy operation.
- 3.Optional pipeline cleaner boosts speed and accuracy.
- 4.Fast testing with decomposition under 2 minutes.
- 5.Built -in USB for data transfer and a 10+ hour rechargeable battery.

SF6 Density Relay Tester

RDMJF-711

1.Measurement accuracy	0.2
2.Pressure display resolution	0.0001 MPa
3.Pressure measurement range	0 ~ 1.0000 MPa
4.Working power supply	Charging adapter input: AC 220V 10% 50Hz
5.Overall power consumption	Charging adapter Output: DC 8.4V (with protection)



- 1.The relay calibrator uses an analog-digital hybrid microcontroller for high accuracy and simple circuit design.
- 2.It fully checks both pointer-type and electronic density relays, adapting to all models.
- 3.Features an 8 4-inch color LCD with capacitive touch interface for easy operation.
- 4.Automatically measures and stores 1000 sets of data for traceability and uploads via RS-232.
- 5.Includes self -calibration and high -precision pressure sensors for long-term accuracy.

SF6 Comprehensive Tester

RDZHF-709A/709B

1.Dew point detection range	-80°C ～ +20°C
2.Purity detection measurement range	0～99.99%
3.Decomposition product detection measurement range	SO2:0～200ppm; H2S:0～200ppm; CO: 0～1000ppm; （HF: 0～10ppm）
4.Gas flow	When measuring SF6 dew point, it is about 0.5 SLM. When measuring SF6 purity, H2S, SO2, CO and HF content, it is about 0.2 SLM
Can test HF（only for RDZHF-709B）	



- 1.Self-calibration ensures accurate measurements by eliminating system errors.
- 2.Easy operation with a large touch LCD screen and simple WYSIWYG interface.
- 3.Fast, gas-saving dew point measurement in about 3 minutes per SF6 air barrier.
- 4.Safe, reliable self-locking joint from Germany with no air leakage.
- 5.Stores up to 1,000 sets of test data and operates for 12 hours on a single charge.

SF6 M/P Comprehensive Tester

RDZHF-709C/709D

1.Dew point detection range	-60°C ~ +20°C
2.Purity detection measurement range	0 ~ 99.99%
3.Micro water range	0.05 ～ 23100 ppm
4.Dew point detection resolution	0.1°C; Micro water：0.1ppm
5.Gas flow	0.8 ~ 0.9 L/min
6.Measurement accuracy	Dew point:+2°C Purity: ±0.5%@RDZHF -709C; ±1%@RDZHF-709D



- 1.32-bit ARM MCU.
- 2.Zero point automatic calibration.
- 3.Digital display of battery electric quantity.
- 4.Good repeatability, high response speed.
- 5.Full range single point dew point calibration.
- 6.Automatic slope calibration.
- 7.Advanced probe protection function.

SF6 Gas Leak Detector

RDWG-III

1.Detection principle	infrared principle
2.Measurement range	0 ~ 1000ppm
3.Resolution	1ppm
4.Sampling method	pump suction, built-in air pump, flow rate of about 500ml / min
5.Detection accuracy	⩽±5%F.S
6.Linearity	⩽±3%
7.Repeatability	⩽±3%



- 1.Uses a sulfur hexafluoride gas sensor with 1000ppm SF6 standard gas for immediate calibration and accurate measurements.
- 2.Built-in gas extraction pump and fast response suction sampling mode.
- 3.Replaceable external dust and optional water vapor filters for varying conditions.
- 4.Stores up to 20,000 records with real time storage, USB data upload, and optional wireless Bluetooth printer for results.

SF6 Optical Gas Imaging Camera

RDWG-L35

1.Cooled Detector type	Detector type
2.Visual Image	8million pixels,CMOS
3.Laser Diode	Class 2, 1mW/635nm Red
4.Power System	lithium battery
5.Battery Life	>3 H



- 1.Refrigerated quantum well cooled detector.
- 2.8M visible camera.
- 3.LCD touch screen& OLED screen.
- 4.Temperature measurement.
- 5.Intelligent linkage.

Refrigerant Infrared Leak Detector

RDWG-L8630

1.Types of detectors	Cooling - type long - wave infrared
2.Thermal sensitivity	⩽10mk @25°C
3.The minimum imaging distance for the focal length	35mm/0.5 meter
4.Lens replacement	Support on - site lens replacement
5.Image zooming	Continuous zoom from 1 to 16 times
6.Palette	There are 16 kinds of palettes to choose from



- 1.Long-wave infrared cooled detector with 320x256 resolution and NETD ⩽ 15mK.
- 2.5 inch LCD touch screen and OLED military grade viewfinder, both 1920x1080 resolution.
- 3.Temperature range: -20 ℃ to +350 ℃, accuracy ±2℃or±2%.
- 4.8MP camera with industrial sensor and 6mm lens for clear images.
- 5.WiFi, Bluetooth (4G/5G optional) for smart device interconnection and data collection.

SF6 Vacuum Charging Device

RDQC-70/RDQC-150

1.Front pump pumping speed	15L/s (25L/s)
2.Front pump final vacuum	10 Pa
3.Front pump power	1.5kW (3.7kW)
4.Roots vacuum pump pumping speed	70L/s (150L/s)
5.Roots vacuum pump final vacuum	⩽10 Pa
6.Power supply	TN-S, AC380V, 50Hz

The content in the parentheses are the parameters of RDQC-150



- 1.Electronic vacuum gauge.
- 2.Equipped with all kinds of imported and domestic SF6 Electrical equipment connection joints.
- 3.A variety of protection functions, effectively ensure the safe operation of the vacuum pump.
- 4.It is easy to maintain. All the devices are made of high performance components, which can be used for a long time without maintenance.

SF6 Gas Recovery and Purification Unit

RDQH -60/200

1.Power AC	380V (phase sequence automatic conversion), 50Hz
2.Rated maximum gas storage pressure (20 °C)	⩽4
3.SF6 compressor	Domestic quality
4.Vacuum pump	Direct coupled pump
5.Gas oil control after recovery	Domestic oil content < 10
6.Noise level	The whole machine is less than 75

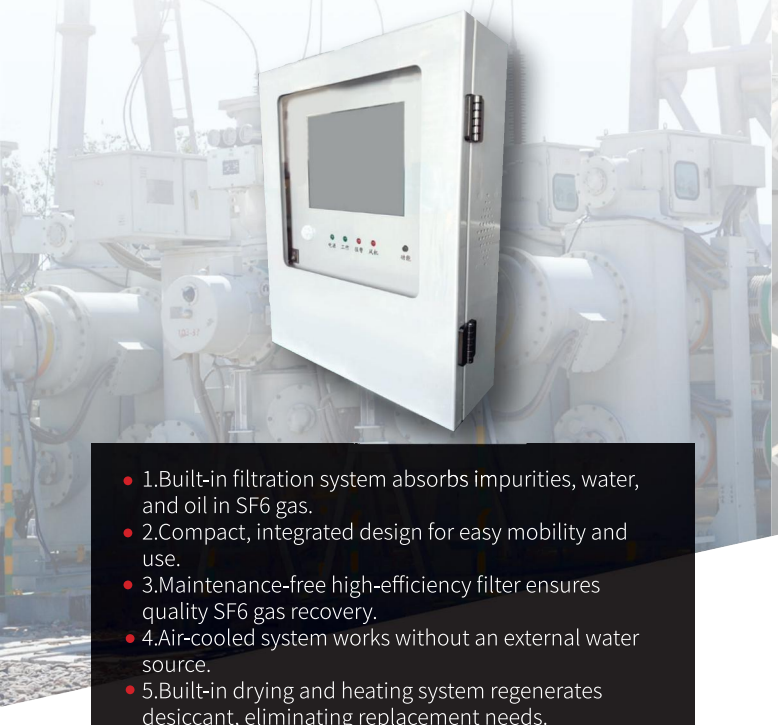


- 1.Built-in filtration system absorbs impurities, water, and oil in SF6 gas.
- 2.Compact, integrated design for easy mobility and use.
- 3.Maintenance-free high-efficiency filter ensures quality SF6 gas recovery.
- 4.Air-cooled system works without an external water source.
- 5.Built-in drying and heating system regenerates desiccant, eliminating replacement needs.

SF6 Leakage Monitoring Alarm

RDP-6000

1. Alarm point of SF6 concentration exceeding limit	1000ppm, accuracy < ±5%
2.O_2 concentration detection range	0-25%, anoxia alarm point: 18%, accuracy < ±0.5%; Temperature display range: -20 ~+99℃ ,accuracy < ±0.5%
3. Humidity display range	0 ~ 99% RH, accuracy < ± 3%
4.Input power supply	AC 220V±20%
5.Alarm output contact power	AC220/5A
6. Fan output contact	380V/15A (three phase) or 220V/15A



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SF6 Gas Qualitative Leak Detector

XP-1A

1.Power supply	3 V DC, 2 No.2 alkaline batteries
2.Maximum sensitivity	R12, R22, R134a have been approved (14g / year)
3.Limit sensitivity	less than 3 g / year for halogen refrigerants
4.Probe life	about 20 hours
5.Working temperature	0 °C - 52 °C
6.Battery life	about 30 hours under normal use



- 1.All of them are controlled by microprocessor with advanced digital signal processing capability.
- 2.Three color video display.
- 3.Seven gear sensitivity setting, enhanced 64 times.
- 4.Touch keyboard.
- 5.The sensitivity can be adjusted at any time .
- 6.Automatic battery test function.