



RAGON - 20

Product Model :- RAGON - 20

Automation Level :- Semi-Automatic / Fully Automatic

Connection Standard :- REDRAGON DN08 Coupling

Internal Storage Tank Capacity :- 150 L

Maximum Operating Pressure :- 50 bar

Input Power Supply :- AC 230 V, 50/60 Hz , AC 115 V, 60 Hz

Technical Specifications

Specifications

Oil-free compressor (SF6)	1.6 m3/h@ 50 Hz Discharge pressure at 40 bar
Oil-free vacuum compressor (SF6)	3.6 m3/h.
Vacuum pump (air/nitrogen)	16 m3/h; final vacuum <1 mbar abs
Onboard tank	150 liter
Storage Pressure	50 Bar
Filtration Technology	Advanced multi-stage filter system: Particle Filer 1 µm Dry Filter (water absorption capacity 185g at dew point -30°C)
Weighing system	Measuring range: 0...200 kg Accuracy: ±0,02% full scale
Control System	Semi auto with push button / Full Automatic HMI for operation.
Redragon Coupling	DN08 Coupling
Permissible inlet and outlet pressure	Compartment inlet pressure ≤ 10 bar abs for recovery High pressure connection ≤ 50 bar abs for filling
Power supply	AC 220-240 V, 1-phase, (16A),50 Hz/60 Hz
Permissible ambient temperature	Operation: 5...50°C Storage: -20...+60°C
Humidity sensor	-60°C to +60°C
Wheels	Solid rubber, Ø 150 mm, with rollover protection
Dimensions	1700mm (L) X 800 mm (W) X 1400mm (H)



RAGON - 40

Product Model :- RAGON - 40

Automation Level :- Semi-Automatic / Fully Automatic

Connection Standard :- REDRAGON DN20 Coupling

Internal Storage Tank Capacity :- 300 L

Maximum Operating Pressure :- 50 bar

Input Power Supply :- AC 400 V, 3-phase, 50/60 Hz

Technical Specifications

Specifications

Oil-Free Recovery Compressor	6 m ³ /h @ 50 Hz, Discharge pressure at 45 bar.
Oli-Less Vacuum Compressor	10 m ³ /h @ 50 Hz Final Vacuum <1 mbar.
Air Evacuation Module	40 m ³ /h @ 50Hz, evacuation upto 0.1 mbar
Perimissble inlet and outlet pressure	Compartment Inlet Pressure ≤ 10 bar abs for recovery High pressure connection ≤ 50 bar abs for filling.
Control System	Push Button / Full Automatic HMI for operation.
Permissible ambient temperature	Operation: 5...50°C . Storage: -20...+60°C .
Power Supply	AC 400 V, 3-phase,(32A),50/60 Hz.
Humidity sensor	-60°C To +60°C.
Gas Storage Capacity	300 Liters.
Storage Pressure	50 Bar.
Redragon Coupling	DN20 Coupling
Filtration Technology	Advanced multi-stage filter system: Particle Filer 1 µm Dry Filter (water absorption capacity 185g at dew point -30°C).
Mobility	Heavy-duty Ø 200mm" solid rubber wheels.
Dimensions	2200mm (L) X 1000 mm (W) X 2050mm (H).



RAGON - 100

Product Model :- RAGON - 100

Automation Level :- Fully Automatic

Coupling Interface :- REDRAGON DN20 Coupling

Internal Storage Tank Capacity :- 600 L

Maximum Operating Pressure :- 50 bar

Input Power Supply :- AC 400 V, 3-phase, 50/60 Hz

Technical Specifications

Specifications

Oil-Free Recovery Compressor	15 m ³ /h @ 50 Hz, outlet pressure 45 bar.
Oli-Less Vacuum Compressor	35 m ³ /h @ 50 Hz. Final Vacuum < 1 mbar.
Air Evacuation Module	100 m ³ /h @ 50 Hz, evacuation upto <0.1mbar
Control System (HMI)	Fully Automatic Operation Control System with 12" IntelliTouch HMI with
Permissible ambient temperature	Operation: 5...50°C Storage: -20...+60°C
Power Supply	AC 400 V, 3-phase, 32A, 50/60 Hz.
Mobility	Solid rubber, Ø200 mm, with rollover protection.
Gas Storage Capacity	600 Liters.
Storage Pressure	50 Bar.
Redragon Coupling	DN20 Coupling
Filtration Technology	Advanced multi-stage filter system: Particle Filer 1 µm Dry Filter (water absorption capacity 185g at dew point -30°C)
Humidity sensor	-60°C to +60°C
Dimensions	2200mm (L) X 1000 mm (W) X 2050mm (H)



Rapidox SF6 6100 Portable Gas Analyser

The Rapidox SF6 6100 Portable is designed for controlling and monitoring the quality of SF₆ in MV & HV gas insulated electrical equipment. Exceptional accuracy and stability are provided when measuring the purity of SF₆ gas, through specially selected sensors. A gas output nozzle allows for the analyser to be attached to the Rapidox Gas Recovery Bag, ensuring that all sampled SF₆ gas is recovered.

Internal SF₆ gas pressure is recorded and logged by the analyser. All measured gases are analysed and data-logged simultaneously with only a few minutes required to achieve a stable reading. In order to accelerate the time taken in-between dew point readings, a unique Rapidri system is fitted to analysers measuring H₂O. When not in use the sensor can be isolated via the 'Run – Storage' valve.

Other measurable gases include H₂O (dew point), SO₂, HF, O₂ & CF₄. Due to the instruments modular design, a number of configurations are available in order to suit a variety of application requirements.

Technical Specifications

Specifications

Measurement Time	User specified - 4, 6 or 8 minutes
Gas Flow Rate	100-1,000ml .min-1
Pressure Range	0.3 - 35 Bar; displayed on screen
Max Inlet Pressure	35 Bar gauge
Display	7" full-colour LCD touch screen with soft menu keys
Coupling	RAGON DN08 & DN20 with Rectus Type
Sensor	SF ₆ , Air/N ₂ ,H ₂ O,SO ₂ ,HF,CF ₄ ,H ₂ S,CO Customizable sensor options available.
Printer	Integrated thermal printer
Ambient Operating Conditions	-10°C to +40°C, 10-90%RH
Data Storage	8 GB internal data storage
Warm-up Time	3-4 minutes initial warm up.
Battery Life	Up to 8 hours. 2-4-hour charge
Power Voltage (Charging)	90-260 VAC, 50/60 Hz
Pump Back	Without
Analyser Dimensions	180mm(H) x 480mm(W) x 360mm(D)
Weight	8.5kg (Total instrument and case)



SF₆ Gas Leak Detector

Product Model :- SF₆ Gas Leak Detector

Probe Length :- 250 mm

Response Time :- 1 Sec

Battery :- 4.2V, Lithium-ion rechargeable battery 2200mAh

Technical Specifications

Sensor (SF₆ gas version 0-1000ppmv / 0-1500ppmV)

Measurement principle	Non-dispersive infrared Technology (NDIR)
Detectable gas	SF ₆
Accuracy	±3 ppmv
0 ≤ 100 ppmv	±2 % of end value
100 ≤ 1000 ppmv	
Resolution	1ppmv
Sampling method	Built-in Pump suction
Detectable leakage rate	3.5 year
Operating temperature	0....60°C
Storage temperature	-10....+60°C
Battery	4.2V, Lithium-ion rechargeable battery 2200mAh for below 8 hours operating time
Power Supply	AC 100 ... 265 V, 50/60 Hz
Calibration cycle	After 1,200 hours of operation or at least every 2 years
Response time	1 second(s)
Warm-up time	100 seconds
Probe length	250 mm
Life span	>10 years
Weight	0.85 Kg without carrier case
Dimension	L=310 mm, W=100mm, H=85mm without probe Carrier case: 460 mm*155mm*270 mm



Rapidox 6100 C4-FN & C5-FK

The Rapidox 6100 C4-FN & C5-FK is a fully- automatic zero-emissions multi-gas gas analyser for measuring gas compartments containing mixtures of C4-FN (Novec 4710) & C5-FK (Novec 5110) blended with CO₂ and O₂, all combined in a single portable instrument.

Common brand names for these gases are g3 and AirPlus. The modular design allows the customer to purchase only the gas types they require with the potential to upgrade the instrument in the future. The Rapidox measures the gas purity, water-content and contamination gases for each gas type in high voltage switchgear, circuit breakers and transformers as well as gas bottles. It is a fully portable lithium battery powered instrument.

Exceptional accuracy and stability are provided when measuring the purity of the compartment gas, through specially selected sensors. The modular configuration allows for up to six compatible gases to be analysed simultaneously in each gas type, using one analyser. The Rapidox is fully compatible with mixtures of C4-FN & CO₂/O₂, C5-FK & CO₂, together with carbon monoxide which is the primary toxic contamination gas. The unit also measures the water content of the gas in dewpoint or ppm to ensure dryness is acceptable.

The Rapidox 6100 C4-FN & C5-FK is housed neatly in an IP66-rated Peli transport case and supplied with sample hoses, DN8 and DN20 coupling accessories. Once powered and connected, the operator can select which gas blend to work with and the Rapidox configures the measurement screen correctly. If the user is changing gas type the unit will run a purge cycle to clean the existing gas from the analyser and into an external recovery bag. During the measurement the Rapidox automatically removes a small quantity of pressurised gas from the electrical equipment or gas cylinder, controlled with an automatic pressure sensing function. A vacuum purge cycle and internal gas storage system ensures that no air can contaminate the gas sample and that no test gas is able to escape during the testing period.

Technical Specifications

Specifications

Ambient Operating Conditions	-10°C to +40°C, 10–90% RH, 600–1100mbar
Warm-up Time	Min 3–4 minutes at 20°C (Recommended 15 mins to achieve full accuracy)
Charging Voltage	90–260 VAC, 50/60Hz
Battery Life	Up to 8 hours. 4–6 hour charge
Sample Connections	Rectus style fitting compatible with famous brands
Data Outputs	Excel compatible data via USB memory stick
Data Storage	4GB internal data storage allowing for approximately 1 year of continuous monitoring
Compressor	Up to 10 Bar with up to 25 cycles per battery charge at 20°C
Measurement Time	2–8 minutes (Min 6 minutes required for H ₂ O)
Pressure Range	0.5–35 Bar
Gas Flow Rate	0.5 L.min ⁻¹
Max Inlet Pressure	35 Bar gauge (10 Bar for Pumpback operation)
Display	7" (178mm) full-colour LCD touch screen interface with soft menu keys
Printer	Integrated thermal printer allows output of results on demand
Analyser Dimensions	270mm(H) x 560mm(W) x 450mm(D)
Weight	21kg (Total instrument and case)



RAGON- AG100

The RAGON-AG100 is a fully automatic service cart engineered for the safe, efficient and controlled handling of Alternative Insulating Gas mixtures, including C4-FN and C5-FK-based gas mixtures.

The system is designed for complete on-site gas handling operations including gas recovery, evacuation, filling, storage, filtration and gas-mixture management.

An integrated oil-free compression system, vacuum technology, dry filtration, weighing system and optional heating arrangement provide reliable operation while minimizing gas emissions during servicing.

The modular design allows easy configuration according to application requirements, while gas-specific couplings and integrated safety functions ensure reliable and secure field operation.

The RAGON-AG100 can be configured with an integrated buffer vessel for homogeneous storage and controlled filling of gas mixtures. The system also supports flexible gas-mixture management and recovery operations.

Technical Specifications

Specifications

Gas Type	Alternative Insulating Gas / C4-FN
Compressor Capacity	10 m³/h @ 50 Hz
Recovery Capacity	30 m³/h @ 50 Hz
Air Evacuation	100 m³/hr < 1 mbar
Maximum Pressure	100 bar
Gas Filling Range	0–12 bar
Gas Storage	600 L / 1000 L configuration
Dry Filter	Molecular sieve
Particle Filter	1 µm
Evaporator	Optional / configurable
Gas Weighing	Digital weighing system
Weighing Range	0–200 kg ±0.02 %
Cylinder Heating	Induction heating, optional
Maximum Cylinder Diameter	250 mm
Recommended Cylinder Diameter	230–250 mm
Gas Connection	DN20 / DN40
Control System	Automatic
HMI	12" Industrial Touchscreen
Communication	USB / Ethernet
Permissible Ambient Temperature	Operation: 5...50°C; Storage: -20...+60°C
Protection Class	IP53
Sound Level	< 80 dB