



SYNERGIC

CAR113-XX, CAR106-XX, CAR105-XX

CAR113-04	Synergic Nano + Vacuum 40
CAR113-03	Synergic Nano + Vacuum 60
CAR113-02	Synergic Nano + Vacuum 100
CAR113-01	Synergic Nano + Vacuum 200
CAR106-04	Synergic Classic + Vacuum 40
CAR106-03	Synergic Classic + Vacuum 60
CAR106-02	Synergic Classic + Vacuum 100
CAR106-01	Synergic Classic + Vacuum 200
CAR105-04	Synergic High Performance + Vacuum 40
CAR105-03	Synergic High Performance + Vacuum 60
CAR105-02	Synergic High Performance + Vacuum 100
CAR105-01	Synergic High Performance + Vacuum 200

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DESCRIPTION

- **Ideal for: Big volumes GIS and Particles accelerators**
- **4 functions in one cart:** Air Vacuum, SF₆ Recovery, SF₆ Refill and Filtering also **simultaneously**
- Available in **multiple versions** to meet all equipment size needs
- **Recycling in autonomy:** the integrated Filter allows the reduction of humidity levels and the elimination of gases resulting from the SF₆ decomposition
- **Safe transport:** complete and automatic emptying of the circuit guaranteeing an internal pressure of less than 0.5 bar according to PED 2014/68/EC
- **Compact design**
- Intuitive interface, **easy to use**
- All connections are **molecular sealed**



FUNCTIONS

- ☑ SF₆ gas **Recovery** and **Storage** in cylinders in liquid state up to a pressure of 50 bar
Final attainable absolute pressure in compartment < 1 mbar abs (in compliance with CEI EN62271-4)
- ☑ **Air evacuation**
Final attainable absolute pressure in compartment < 1 mbar abs
- ☑ SF₆ gas **Refilling** from a cylinder at adjustable pressure
- ☑ SF₆ gas **Filtration and moisture abatement** both in Recovery and Refilling phase
- ☑ SF₆ gas **Filtration and particulate abatement** both in Recovery and Refilling phase

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TECHNICAL SPECIFICATIONS

⚙️ DIMENSIONS: Length: 1420 mm - Width: 995 mm - Height: 1595 mm

⚙️ WEIGHT: 550 kg

⚙️ POWER SUPPLY: 400 V - 50 / 60 Hz three-phase

⚙️ COLORS: Yellow: RAL1016 - Black: RAL9005

⚙️ Dry Compressor

Code	Nominal Flow Rate	Discharge Pressure (bar)
CAR113-XX	9 Nm ³ /h	50
CAR106-XX	13,2 Nm ³ /h	50
CAR105-XX	22,3 Nm ³ /h	50

⚙️ Dry Vacuum Compressor

Code	Nominal Flow Rate	Final Pressure
CAR113-XX	12 Nm ³ /h	< 1mbar
CAR106-XX	18 Nm ³ /h	< 1mbar
CAR105-XX	35 Nm ³ /h	< 1mbar

⚙️ Air Vacuum

Code	Nominal Flow Rate	Final Pressure
CAR113-04 CAR106-04 CAR105-04	40 Nm ³ /h	< 1mbar
CAR113-03 CAR106-03 CAR105-03	60 Nm ³ /h	< 1mbar
CAR113-02 CAR106-02 CAR105-02	100 Nm ³ /h	< 1mbar
CAR113-01 CAR106-01 CAR105-01	200 Nm ³ /h	< 1mbar

STANDARD EQUIPMENTS

SF₆ oil free compressor

SF₆ dry suction pump

Air vacuum pump

2 moisture filters (recovery and filling)

3 particulate filters (recovery and filling)

7" LCD display

Moisture measurement sensor for recovered and injected gas

Precision vacuummeter for vacuum gas measurement (0-100mbar)

Precision vacuummeter for air vacuum measurement (0-100mbar)

Input and output analogue pressure gauges

Pressure reducer 1 ÷ 17 bar for filling compartments with SF₆ gas

Digital pressure manometer 0 ÷ 11 bar abs measuring real and temperature-compensated pressure + atmospheric temperature

5 m long DN20 hose with 2 coupling DN20 female valves

5 m long DN8 hose with adapters W21,8x1/14" for connection to the cylinder and DN20 for connection to the machine

CERTIFICATES ISSUED

📄 Plant Helium Leak Test Certificate (UNI EN ISO 9712 - SNT TC1A)

📄 Refilling Digital pressure gauge Calibration Certificate

📄 Safety valves Calibration Certificate

📄 Safety valves INAIL Certificate

DOCUMENTATION PROVIDED

📄 Operating manual

📄 SF₆ gas safety data sheet

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OPTIONAL ACCESSORIZE

- ☆ **COP101-01**: Thermocover for cylinders
- ☆ **LEK102-01**: Sniffer SF₆ leak detector
- ☆ **ALY101-03**: Sensotec Cambridge Rapidox 6100-PB MK2 analyzer
- ☆ **TBS102-01**: 5mt Rubber hose DN20 with DN8 female valves
- ☆ **TBS102-02**: 10mt Rubber hose DN20 with DN20 female valves
- ☆ **TBS102-03**: 20mt Rubber hose DN20 with DN20 female valves
- ☆ **VAL103-01**: Adapters kit DN20
- ☆ **COV101-01**: Waterproof cover
- ☆ **SCA101-01**: Scale