ARFU-2

SF_6 handling equipment

Evacuation and regulated SF_6 filling in a lightweight, rugged cart, ready for the field

ARFU-2

Gas filling regulation unit ARFU-2 SF_6

amperis

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Lightweight, rugged unit to evacuate air and moisture and refill SF_6 equipment with standard cylinders.

Product description

Valve and gauge assembly of the ARFU-2

One cart, two operations

The ARFU-2 combines, in a single cart, the evacuation of air and moisture from switchgear and circuit-breaker compartments and the subsequent regulated filling with standard SF_6 cylinders. Its lightweight yet rugged frame and large tires make it easy to move over uneven or gravel surfaces in substations.

One valve, two modes

A 3-way ball valve switches between evacuation and filling with no need to rewire hoses. The permanently mounted vacuum pump reaches a sealed pressure below 0.03 mbar; filling is user-regulated through a pressure regulator, with an integral vacuum gauge to follow the process.

Key advantages

- Single-valve operation to switch between evacuation and filling.
- Large tires for movement over gravel or uneven ground.
- High-capacity vacuum pump, permanently mounted on the cart.
- Regulated gas filling, adjustable by the user.
- Integral vacuum gauge on the control panel.
- Supplied with 3 m hoses and a power cable.

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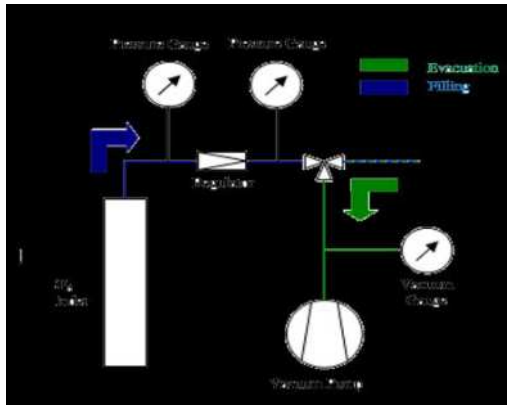
Applications and operation



Evacuation and filling process diagram of the ARFU-2

Applications

- Evacuation of air and moisture prior to filling SF_6 equipment.
- Regulated filling of switchgear and circuit-breaker compartments with SF_6.
- Field commissioning and maintenance of gas-insulated equipment.
- Monitoring of vacuum and filling pressure through integral gauges.

How it works

The process runs in two stages linked by the same 3-way valve: the compartment is first evacuated with the vacuum pump until free of air and moisture; the same valve then connects the SF_6 cylinder to the equipment through the pressure regulator, which controls the filling pressure while the vacuum gauge is used to follow each stage.

Options

- Special supply voltages on request.
- Longer hoses for hard-to-reach installations.

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ARFU-2 — PERFORMANCE DATA

Vacuum pump	10 CFM (17 m^3/h)
Sealed vacuum	Below 0.03 mbar
Valve	3-way ball valve, to switch between evacuation and filling
Filling	User-regulated through pressure regulator

Performance data as per the manufacturer's current catalogue (2025).

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ARFU-2 — TECHNICAL SPECIFICATIONS

Type	Portable SF_6 evacuation and regulated filling unit, on a wheeled cart
Frame	Lightweight and rugged, with large-diameter tires
Indicator	Integral vacuum gauge
Hoses	3 m, supplied with power cable
Power supply	120 V single-phase, 60 Hz / 220 V single-phase, 50/60 Hz (other voltages on request)
Dimensions (H × W × D)	1500 × 600 × 400 mm
Weight	31 kg

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