Accessible version (HTML): amperis.com/en/accesible/agru-4-eng/

AGRU-4

SF_6 gas handling equipment

Liquid SF_6 storage with an oil-less compressor up to 34 bar

AGRU-4

SF_6 gas recovery unit

amperis

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Product overview

Dead-tank circuit breakers, a typical application

Field service on individual circuit breakers

All SF_6 servicing on two wheels

The AGRU-4 recovers, temporarily stores, conditions and returns the SF_6 of small-volume equipment: metal-

cart with 250 mm tires, it changes operating mode with just two valves and also consolidates partially used SF_6 bottles into a single cylinder.

Liquefaction in any climate

The high-pressure, oil-less compressor with a 1000:1 compression ratio reaches 34 bar and liquefies the gas even in warm climates. The recovered SF_6 is stored in the on-board 22.7 kg tank, and an auxiliary connection extends storage to external cylinders without limit.

Main features

- Purifies, dries and filters to 0.1 µm during recovery and refilling.
- Filters replaced without disconnecting tubing or special tools.
- Colour-change moisture indicator monitors the gas at a glance.
- Stainless steel fittings for corrosion resistance and durability.
- Recovery down to 100 mbar; optional XDS vacuum stage below 1 mbar.
- Comes complete with power cable.

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Applications and options

Applications

- Recovery and purification of SF_6 in switchgear and circuit breakers.
- Evacuation of air and moisture before filling.
- Consolidation of partially used SF_6 cylinders.
- Liquid SF_6 storage on board or in external cylinders.
- Regulated refilling of SF_6 equipment.

Options

The unit accepts a storage tank heater and an insulating blanket for cold sites, 3 m or 6 m hoses in rubber or stainless braid, and an optional vacuum compressor of 3.3 m^3/h that takes SF_6 recovery to 99.9 %.

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AGRU-4 — TECHNICAL SPECIFICATIONS

Designed for	Breakers and switchgear up to 69 kV
SF_6 transfer rate	Up to 2 m^3/h
Recovery	Down to 100 mbar; below 1 mbar with optional XDS stage
Recovery rate	99.9 % with optional vacuum compressor (3.3 m^3/h)
Compression	Oil-less direct-drive compressor, 1000:1, up to 34 bar
Vacuum pump	17 m^3/h; below 1 mbar for air and moisture evacuation
Filtration	Particles to 0.1 µm; removes moisture and decomposition products
Storage	On-board 22.7 kg tank; auxiliary connection for external cylinders
Supply voltage	120 V, 1-phase, 60 Hz / 220 V, 1-phase, 50-60 Hz
Dimensions (H × W × D)	1170 × 560 × 610 mm
Weight	103 kg
Mobility	Two-wheel hand cart with 250 mm tires
Options	Tank heater; insulating blanket; 3 m or 6 m hoses; vacuum compressor
Included	Power cable

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