

ARFU-2

HIGHEST ACCURACY & LOWEST COST



SF₆ Gas Regulated Filling Unit

ARFU-2

- Vacuum Capacity: (with optional upgrade)
 - + 10m³/h (60Hz – 110V) --> 17 m³/h (upgrade)
 - + 8,5m³/h (50Hz – 220V) --> 14 m³/h (upgrade)
- Weight: 69 lbs - 31 Kg
- Dimensions: 60"x24"x16" - 1500x600x400 mm - (H x W x D)

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A lightweight, yet rugged, portable unit for the evacuation of gas switchgear, or breaker compartments; and regulated filling using standard SF₆ gas cylinders.

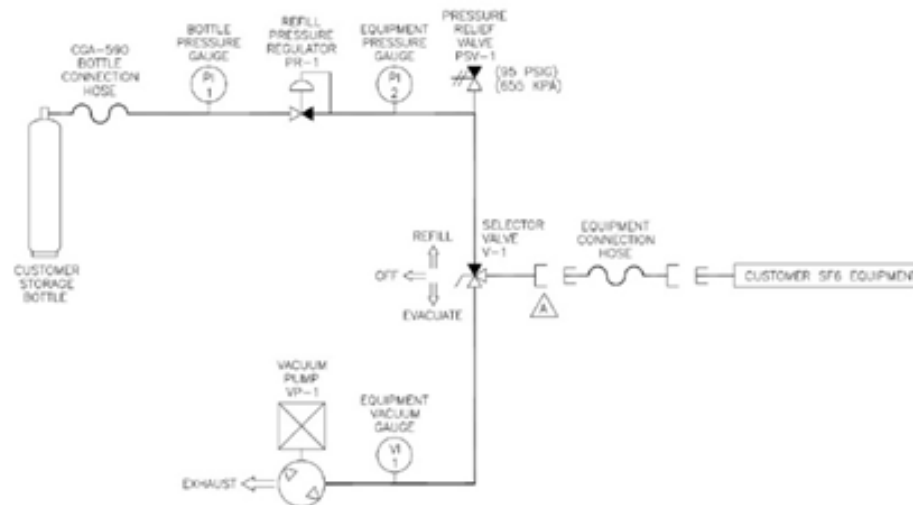


Features:

- Rugged steel enclosure.
- Regulated inlet for direct connection to high-pressure bottles without throttling.
- High discharge pressure for liquefaction in high ambient temperatures.
- Can be used with SF₆ tanks, bottles or carts.
- Automatic shut off when maximum allowable pressure is reached.
- High pressure, direct-drive oil-less compressor with 1000:1 compression ratio (capable of 1000psi – 69 bar).
- Comes complete with 9.8ft / 3m hoses and power cable.
- Filters are easily changed without disconnecting any tubing or using any special tools.
- Colour change moisture indicator to monitor moisture in gas.
- Purifies, dries and filters to 0.1 microns during recovery and re-pressurization:
 - (D1) - Dryer Filter - Contains activated alumina to aid in the drying and purification of SF₆ Gas.
 - (F1) - Particulate Filter - Will filter all particulate matter down to 0.1 micron nominal.

Applications:

- Recover SF₆ gas to an optionally available auxiliary storage tank.
- Pressure regulated recharging of SF₆ gas to switch gear.
- Consolidation of storage cylinders.
- Purification of SF₆ (removes particles, moisture, and SF₆ decomposition products).



CIRCUIT BREAKER - 72.5kV:
Weight of SF₆: 29 lbs – 13 Kg

ARFU-2- Specifications

Type	Portable SF ₆ Gas Regulated Filling Unit.
Physical specifications	24" (600 mm) Wide x 16" (400 mm) Deep x 60" (1500 mm) //69 lbs. (31kgs.).
Input power	110Vac/60Hz - 220Vac/50Hz .
SF₆Compressor	One High Pressure Single Stage Direct Drive Oil-less Compressor – up to 1,000 psig (69 bar). Motor 0.24kW, 3550 rpm. Metal valve construction.
Pressure reducing regulator	One pressure reducing regulator, brass body, 0-250 psig (0-16.67 bar) spring.
Valve	One 3 way ball valve, brass.
Relief Valve	One relief valve with deflector cap, 50-150 psig (3.33-10 bar).
Pressure gauge	Two pressure gauge, 600 psi (40 bar) and 200 psi (13.33 bar), 2,5" dial, bottom mount connection.
Vacuum Gauge	0-30"Hg (0 to -1 bar) for vacuum system.
Vacuum Pump	Motor: 0.37 kW, 1750 RPM, TEFC electric motor. Displacement: - 6 CFM - 10 m ³ /h (60Hz – 110V) – Optional upgrade to 10 CFM -17 m ³ /h. - 5 CFM – 8.5 m ³ /h (50Hz – 220V) – Optional upgrade to 8.25 CFM -14 m ³ /h. Blank off pressure: 20 microns (0.03 mbar). Pump also includes: positive antisuckback valve, isolation valve, gas ballast, and automatic oil return system.
Hoses	Two Permeation Rubber Resistant Hoses: 1/4" (6 mm) I.D. X 10 Ft. (0.91 meter) Long, complete withquick disconnect self-sealing end fittings. Hoses will be suitable for system pressure, temperatureand flow.

ARFU-2- Optional Upgrades and Accessories

DN-8 Style Quick Connections	Unit can be supply with DN-8 style quick connections on equipment and hoses.
Increase Hose Length	Unit can be supply with 6m. hoses instead of 3m.