

SHX -

SF 6 recovery series



Sulphur Hexafluoride (SF₆) is a compound that has a unique combination of properties: -

- Chemical Inertness
- Thermal Stability
- Non-toxicity
- Excellent Heat Transfer
- Non-flammability
- High dielectric strength
- Non-corrosive
- Ability to regenerate

that have seen it applied in a wide variety of industries, amongst others: -

- Magnesium Casting
- Aluminum Degassing
- Leak Detection
- Electrical Components
- Particle Accelerators

n the electrical industry, SF₆ gas is primarily used in circuit breakers, switches, and gas-insulated transmission lines.

However, its environmental impact is becoming an increasing concern.

Sulphur Hexafluoride (SF₆) is a potent greenhouse gas with an atmospheric lifetime of up to 50,000 years and a global warming potential about 25,000 times greater than CO₂. It can also produce hazardous by-products under certain conditions, and its high cost adds to operational concerns.



The SHX-series of SF₆ recovery units is designed to minimise the impact of these by means of the following: -

- **Greenhouse gas reduction** – through transfer of the SF₆ from its current housing to onboard or external storage cylinders the gas does not need to be vented into the atmosphere.
- **By-product removal** – by use of suitably designed filters and scrubbers it is possible to remove hazardous contaminants from the SF₆ gas. .

- **Cost reduction** – Efficient recycling through the SHX Recovery Unit enables reuse of existing SF₆ gas, minimizing the need for new gas purchases.

Typical specification

- Water removal down to 10 PPM or less
- Particulate removal to less than 0.1µ
- Equipment vacuum to below 1 Torr
- Recovery to better than 99.8%



Features

- Oil-less or oil-free compressors
- Onboard or external storage of liquefied SF₆
- Mobile, static or hand-cart
- Wide range of accessories
- Comprehensive test equipment option

Accessories and test equipment

Supplied with hoses, power cables, inline

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hygrometers, and weighing scales, with digital or analogue gauges. Available in 220V, 380V, 415V, 460V, or 575V (50/60 Hz) configurations.

Optional accessories include

- Contamination detection
- Leak detectors
- Electronic moisture measurement
- External scrubbing systems for heavily contaminated gas

Designation	Code	Description
Series	SHX	
Storage capacity	40	40-lb cylinder 100-lb cylinder
	100	
	200	2 x 100-lb cylinders
	300	3 x 100-lb cylinders
	1000	1000-lb tank 2000-lb tank
	2000	Mobile, casters
Type	M	Mobile, trailer
	T	Static, skid-mount
	S	Hand-cart
	H	
	120	120V, 60Hz, 1-phase
	220	220V, 50Hz, 1-phase
	380	380V, 50Hz, 3-phase
	460	460V, 60Hz, 3-phase

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