

## SF<sub>6</sub> FILTER PURIFIER

### SPECIFICATIONS

#### DIMENSIONS:

Height: 68" (1725 mm)  
 Width: 6-5/8" (168 mm)  
 Depth: 6-5/8" (168mm)  
 Weight: 230lbs (104kg)  
 (with desiccant)

#### OPERATING PRESSURE:

275 PSIG

#### OPERATING TEMPERATURE:

-20 to -100

#### FLOW RATE:

Compatible with Enervac Model E736A  
 reclaiming compressor pumping rates

#### POWER REQUIREMENTS:

None

Enervac International ULC  
 280 Holiday Inn Drive  
 Cambridge, Ontario  
 Canada  
 N3C 1Z4  
 (P)1-519-651-1034  
 (F)1-519-651-1038

www.enervac.com  
 sales@enervac.com



For more  
 information  
 scan the  
 code!



#### CAPACITY:

The filter-purifier will purify up to 2,500 lbs. of SF<sub>6</sub> gas. Decomposed SF<sub>6</sub> gas, when passed through the Enervac purifier (single-pass) will achieve the following approximate purity levels:

Final Concentration	
Constitutes	% By Volume
HF	0
SOF <sub>2</sub>	0.001
SO <sub>2</sub> F <sub>2</sub>	0.001
SF <sub>2</sub>	0
SF <sub>4</sub>	0
S <sub>2</sub> F <sub>2</sub>	0
CO <sub>2</sub>	0.006
CO	0.016
Solid Particles	Less than 2µ Absolute

Enervac's SF<sub>6</sub> filter-purifier is used for the purification of badly decomposed SF<sub>6</sub> gas during transfer from circuit breakers and other electrical equipment to SF<sub>6</sub> reclaiming carts. It also has application in re-purifying SF<sub>6</sub> gas in charged circuit breakers. The need for a high capacity purifier is most evident when SF<sub>6</sub> gas is badly decomposed, resulting in byproducts that are harmful to electrical equipment. While some decomposition of the SF<sub>6</sub> charge occurs during normal circuit breaker operations certain conditions such as continuous high-intensity arcing, cause accelerated SF<sub>6</sub> decomposition. When this occurs, an additional high-capacity purification stage between the circuit breaker and the gas reclaiming cart, can be most beneficial. Although most Enervac Model E736A reclaiming carts are equipped with internal SF<sub>6</sub> purifiers the external filter-purifier is recommended for the prevention of excessive contamination of the cart. This results in more effective final cleanup of the gas by the cart purifier during re-transfer of the stored gas back to the circuit breaker, and less frequent replacement of the cart purification cartridges.

The filter-purifier incorporates four chemical purification beds, all contained in a single high pressure cylindrical housing. The chemicals are placed in a pre-determined sequence and quantity, and are separated by diffuser plates. The filter-purifier also contains one 2-micron filter. SF<sub>6</sub> enters the filter-purifier through the bottom connection and passes through the chemical beds. The SF<sub>6</sub> is evenly distributed through the beds by the inlet diffuser plate. Prior to exiting the filter-purifier, the gas passes through the 2-micron filter. filter-purifier is equipped with inlet and exit sampling connections, providing convenient means for gas analysis during purification. The filter-purifier is designed for ease of chemical and filter replacement. Replacement kits are available. Each kit contains four pre-measured chemical charges, individually packed in plastic bags, plus filter element.