

# Gasfilter Lambda

## Intended use

The filter is suitable for eliminating hydrogen chloride (HCl) and fluorine (F<sub>2</sub>) from the inflowing gas.

## Storage

The filters must be stored in the unopened package in accordance with the relevant regulations. According to the Accident Prevention Rule »Protection from hazardous chemical substances (VGB 1a)«, unopened filters can, e.g. where the FR Germany is concerned, be stored for a period of 4 years. The filter shelf-life is printed on the package.

The general rule is:

Filters should always be stored in dry rooms and in their unopened package so that they are protected from being damaged. Irrespective of their a/m shelf life should such filters that reveal a visible damage e.g. dents, be eliminated even if the self life is not yet expired.

## Usage period

The usage period of a filter depends on a number of factors (e.g. nature and concentration of the pollutant). The exhaustion of a filter used against gaseous substances is determined by traces of the pollutant behind the filter.

## Disposal

The unused filter and those filters that have been used according to their envisaged application (cf. intended use), must be disposed of according to relevant regulations. For disposal, the used filter should be placed into the bag of the replacement filter. The bag must be closed by means of the clamping strap supplied.

MSDS is in the blue  
MSDS folder.  
11/9/95



# LAMBDA PHYSIK

LASERTECHNIK

## USER INSTRUCTION

### Intended Use

Lambda Physik excimer lasers utilize a halogen filter to remove atomic and molecular species of hydrogen chloride (HCl) and fluorine (F<sub>2</sub>) from laser gas mixtures exhausted from the discharge reservoir.

### Storage

The filters must be stored in the unopened packaging in accordance with the relevant regulations. According to the Accident Prevention Rule 'Protection from hazardous chemical substances (VBG 1a, FR Germany)', unopened filters can be stored for a period of up to 4 years. The filter shelf-life is printed on the packaging. Filters should always be stored in dry rooms and in their unopened packaging so they are protected from being damaged. Filters with a visible damage e.g. dents must be separated irrespective of their shelf-life.

### Usage period

The usage period of a filter depends on several factors (e.g. kind and concentration of the pollutant). A filter used against gaseous substances is exhausted if traces of the pollutant are detectable at the filter outlet.

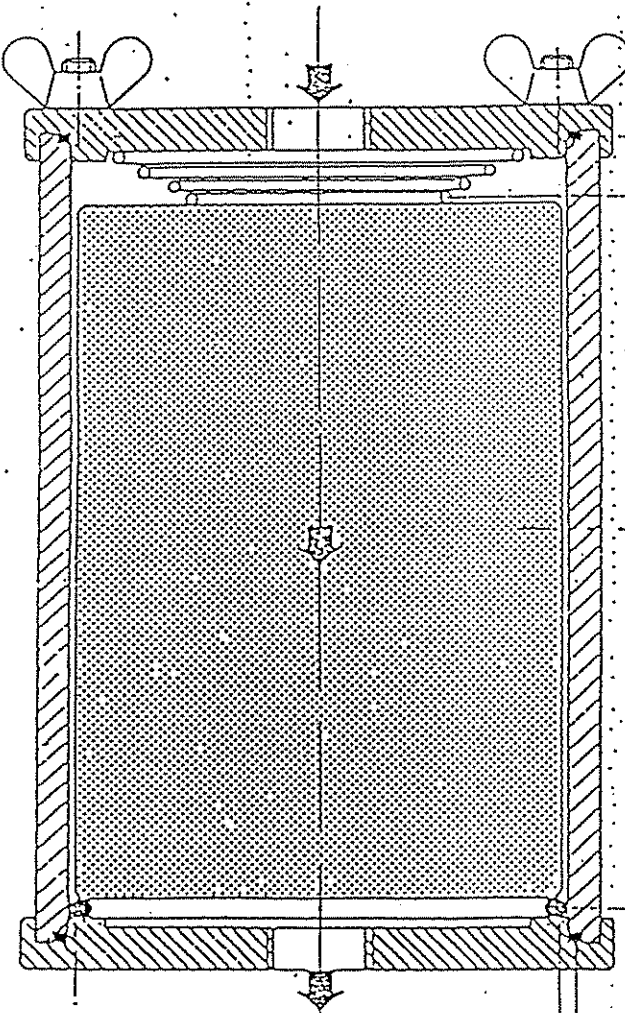
### Disposal

Unused filter and those filters that have been used according to their intended application (cf. intended use), must be disposed of according to relevant regulations. A used filter can warm up if it gets into contact with atmospheric humidity. Therefore, it is highly recommended to deactivate the filter by approximately 10 l of water after it has been removed from the filter housing. For final disposal, the used filter should be placed into the bag of the replacement filter. The bag should be closed by means of the supplied tie-rip. The water used for deactivation contains hydrochloric or hydrofluoric acid (HCl, HF) as well as potassium carbonate (K<sub>2</sub>CO<sub>3</sub>). The water should be neutralized with calciumhydroxide. Then it can be disposed according to the relevant regulations.

Except of MSDS section 2

### SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & Common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	CAS NO.
Carbon	N/A	N/A	N/A	
Potassium carbonate				7440-44-0



O-Ring  $\phi 88,57 \times 2,62$   
# 900 879  
Kegelfeder / Spring  
# 904 516

Filterpatrone /  
Cartridge  
# 90 4166

O-Ring  $\phi 85 \times 4$   
900 411

O-Ring  $\phi 88,57 \times 2,62$