

VAPBOX 300

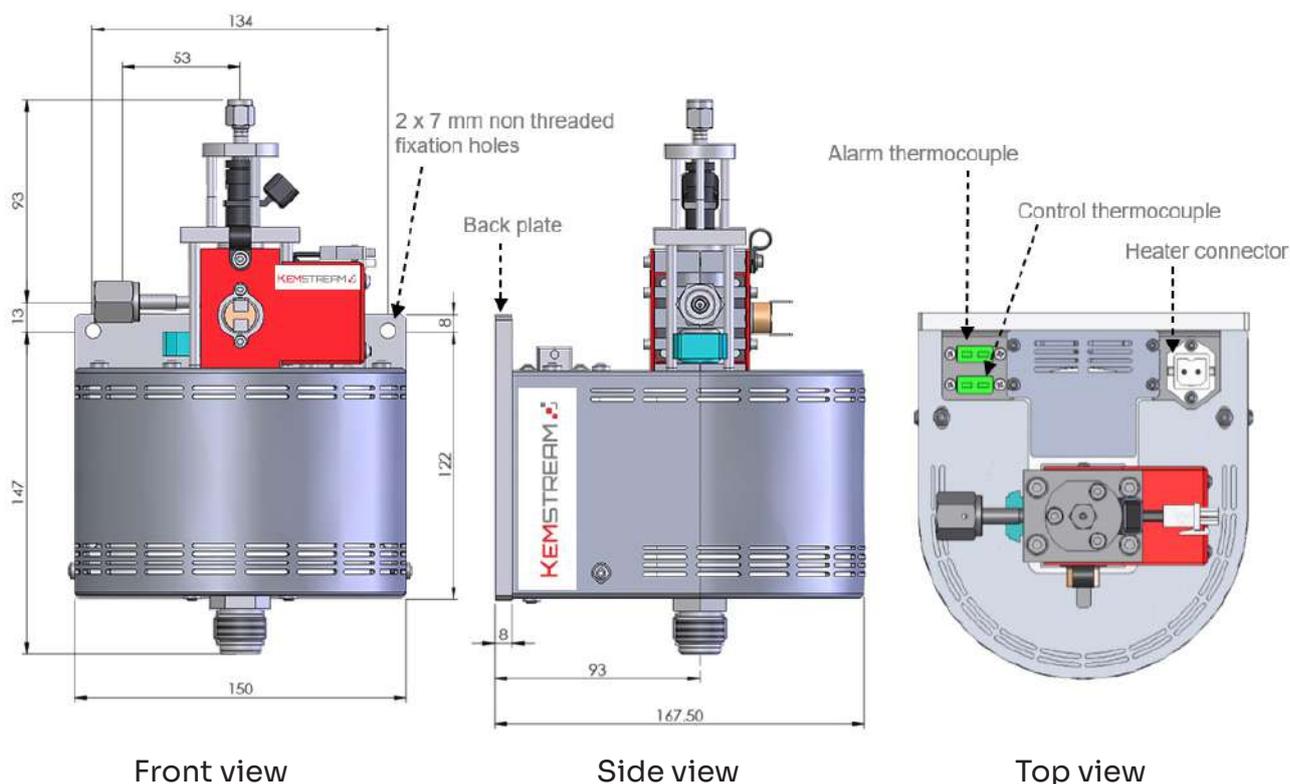
High performance DLI CVD & ALD vaporizers

- Vaporizes pure liquid compounds and solid ones dissolved in a carrier liquid (organic solvent) up to 250°C.
- Is able to handle and vaporize most of solid and liquid compounds including low vapor pressure, thermally labile and viscous ones CVD and ALD precursors.
- Provides high and unmatched performances based on a pulsed injection of a mixture of liquid and carrier gas. That pulsed injection is performed by a proprietary Injection Head (atomizer) and allows a very fine atomization and thus flash vaporization of the liquid.
- Also features an improved internal design with integrated baffle.
- Operates from vacuum to atmospheric pressure.
- Optional purge port on the top flange.



Dimensions (mm)

Total weight is about 6 kg



Datasheet 20260801 REV 0

VAPBOX 300

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Technical Specifications

Injection Head (liquid inlet)

- 1

ICU (Injection Control Unit)

- 110-230 VAC remote and rackable 19" 2U unit

Heating:

- 1 heating zone, up to 250°C, 400 W
- 2 K type thermocouples: 1 for control, 1 for alarm

Fittings:

- 1/8" compression type or 1/8" VCR male fitting for liquid inlet
- 1/4" VCR female fitting for carrier gas inlet
- 1/2" VCR male fitting for vapor outlet

Option:

- Optional 1/4" VCR female purge port on the top flange

Versions (heater):

- 230 VAC version and 115 VAC version

Accessories:

- Liquid flow controlling kit including a Liquid Flow Meter (LFM)
- Liquid panel including a precursor tank and with an optional solvent tank (for rinsing purpose)
- Carrier gas panel including a carrier gas Mass Flow Meter (MFM)
- TCU (Temperature Control Unit): 19" remote and rackable 3U unit

Flows range:

- Typical carrier gas flow range = 120 to 7500 sccm
- Typical liquid flow range = 0.1 to 10 g/min

Ordering Information

Injection Head

Liquid Inlet Fitting	
HB4 - 069E	1/8" Swagelok
HB4 - 8E91	1/8" VCR male

Carrier Gas Inlet Fitting	
HB4 - 069E	1/4" VCR female horizontal
HB4 - 8E91	1/4" VCR female horizontal

Voltage (for heating)	
L	115 VAC
H	230 VAC

Optional supplementary gas port	
B	None
C	1/4" VCR female

Vapor outlet fitting	
M8	1/2" VCR male

Vaporizer pressure (process P)	
V	From 0 to 1.5 bara
A	Above 1.5 bara

Vaporizer

