

# VAPBOX 1500

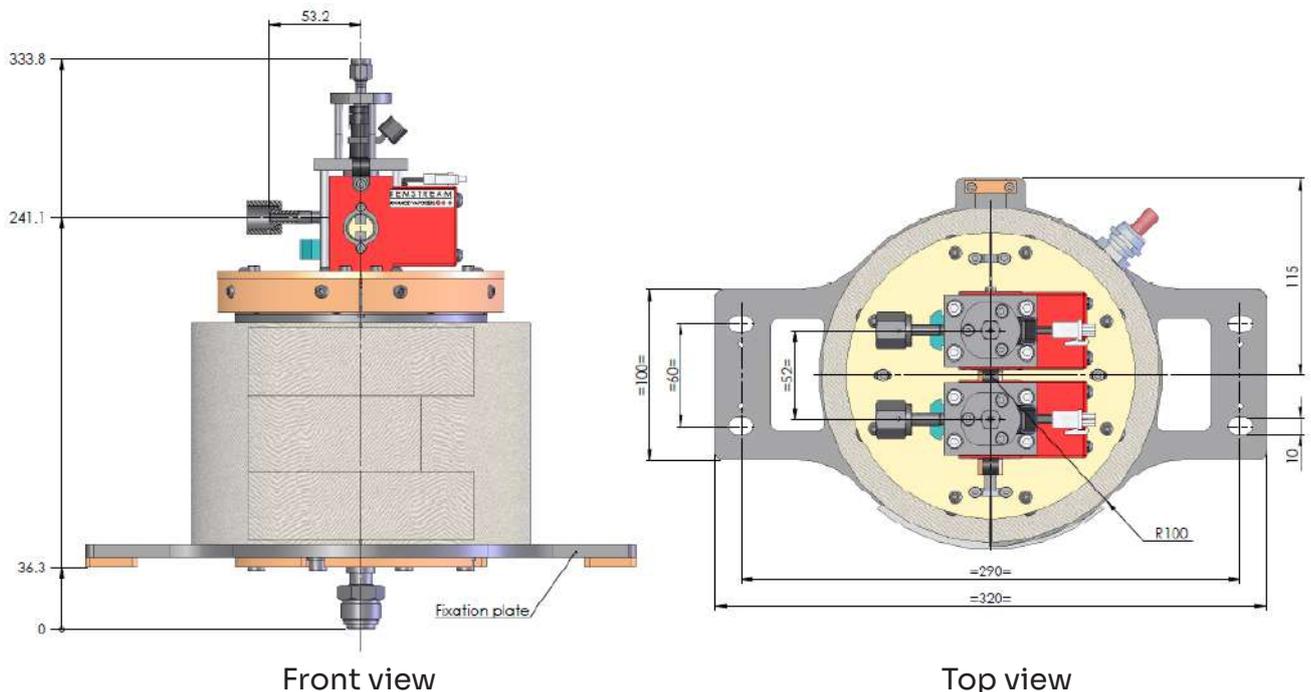
## High performance DLI CVD & ALD vaporizers

- Vaporizes pure liquid compounds and solid ones dissolved in a carrier liquid (organic solvent) up to 300°C.
- Is able to handle and vaporize most of solid and liquid compounds including low vapor pressure, thermally labile and viscous CVD and ALD precursors.
- Provides high and unmatched performances based on a pulsed injection of a mixture of liquid and carrier gas.
- Operates from vacuum to atmospheric pressure.
- Thanks to delivering of accurate and stable liquid flows, the VAPBOX 1500 delivers accurate and stable vapor flows.
- Can inject and vaporize 2 liquids or solutions simultaneously or sequentially.
- Features an improved internal design with undirect vapor outlet.
- Optional purge port on the top flange.



## Dimensions (mm)

Total weight is about 22 kg



# VAPBOX 1500

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### Technical Specifications

#### Injection Heads (liquid inlets)

- 1 or 2

#### ICU (Injection Control Unit)

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

#### Heating:

- 3 heating zones, up to 300°C, 1650 W
- 4 K type thermocouples: 1 per heating zone + 1 alarm

#### Fittings:

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

#### Option:

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

#### Versions:

- 230 VAC version and 115 VAC version

#### Accessories:

- 1 Liquid flow controlling kit per Injection Head, including a Liquid Flow Meter (LFM)
- Liquid panel with 1 precursor tank per Injection Head and with an optional solvent tank (for rinsing purpose)
- Carrier gas panel with 1 carrier gas Mass Flow Meter (MFM) per Injection Head
- TCU (Temperature Control Unit): 19" remote and rackable 3U unit

#### Flows range (per Injection Head):

- 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

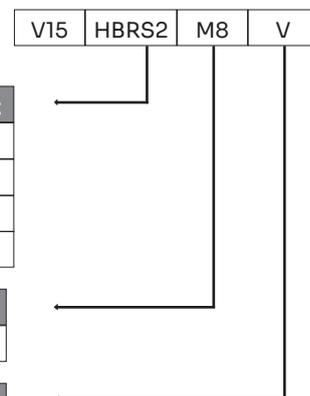
Carrier Gas Inlet Fitting	
HB4 - 069E	1/4" VCR female horizontal
HB4 - 8E91	1/4" VCR female horizontal

#### Vaporization Chamber

Voltage (heating) and purge port	
HBR2	230 VAC no purge port
LBR2	115 VAC no purge port
HDR2	230 VAC purge port
LDR2	115 VAC purge port

Vapor outlet fitting	
M8	1/2" VCR male

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



SAS ECM COMPONENTS

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