

# VU-D450/T450

## Premix Vaporization Technology

### Features :

- The VU-D450/T450 vaporizer unit provides precise flow rate control and efficient vaporization of up to 3 precursors through combination with the LM-2100A liquid mass flow meters.
- Premix vaporization technology (Patent pending).
- Simultaneous vaporization in one vaporizer chamber.
- Atmospheric and vacuum process capabilities.
- Wide range of carrier gas flow rates (800 sccm – 130slm).
- Operating temperature up to 200°C.
- Compact body size and lower cost of ownership.



VU-T450 model

Features	Model / Details	Specifications
Carrier gas flow rates	9 Ranges	0.8 – 130 slm
Control valves	VU-D450	2 x Diaphragm solenoid valve, normally closed
	VU-T450	3 x Diaphragm solenoid valve, normally closed
Thermocouple		K type
Maximum operating temperature		200°C
Pneumatic actuator operating pressure		490 – 588 KPa G
Operating pressure	Inlet (gauge)	150 – 300 KPa G
	Outlet (abs.)	< 150 KPa
Withstand pressure	(gauge)	1 MPa G
Leak integrity	He	1.10 <sup>-10</sup> scc/sec
Maximum power consumption	VU-450-L1	120V / 800W
	VU-450-L2	240V / 800W
Thermostat		Open @230°C ± 10°C
Temperature regulation method		P.W.M. P.I.D. control, < 1 second per cycle
Standard fittings	Precursor inlet	1/8" VCR female
	Carrier gas inlet	1/4" VCR male
	Vapour outlet	1/2" VCR female
Wetted materials		SS316L, Au, Ni-Co, Polyimide
Mounting direction		Vertical
Standard accessories	Cable for liquid flow meter	CC-LV-3-3M
	Thermocouple connector	CMP01-K (RKC)
	Heater connector	SRCN6A16-7S (JAE)

- Please inform Qualiflow of the type and chemical property of the liquids you intend to use.
- If you can provide a particular liquid for Qualiflow, a flow rate calibration can be carried out for a fee.
- Some liquids might not be accepted to handle by Qualiflow.
- For information not included in this datasheet, please contact Qualiflow sales representative.

# Dimensions

