



VU-430

Vaporization System for LPCVD and APCVD Applications

Features :

- Precise flow rate control and efficient vaporization of a wide variety of liquids through combination with the LM-2100A liquid mass flow meter (Patent pending).
- Wide range of carrier gas flow rates (50 sccm – 4 slm).
- Applicable to atmospheric and vacuum processes.
- Operating temperature up to 200°C.
- Compact body size (compatible with VU410-420).



Features	Model / Details	Specifications
Carrier gas flow rates	VU-430-01	0.05 – 1 slm
	VU-430-02	1 – 2 slm
	VU-430-03	2 – 4 slm
Valves	Control valve for precursor	Diaphragm solenoid valve, normally closed
	Shut-off valve	Diaphragm pneumatic valve, normally closed
Thermocouple		2 x K type thermocouple
Maximum operating temperature		200°C
Operating pressure	Inlet (gauge)	150 – 300 KPa G
	Outlet (abs.)	< 150 KPa
Withstand pressure	(gauge)	1 MPa G
Thermal switch (overheating alarm)		Open @230°C ± 10°C
Temperature regulation method		P.W.M. P.I.D. control, < 1 second per cycle
Leak integrity	He	1.10 ⁻¹⁰ scc/sec
Maximum power consumption	VU-430-xx-L1	Inner block: 120 VAC – 80 W Outer block: 120 VAC – 400 W
	VU-430-xx-L2	Inner block: 240 VAC – 225 W Outer block: 240 VAC – 400 W
Standard fittings	Precursor inlet	1/8" VCR male
	Carrier gas inlet	1/4" VCR male
	Vapour outlet	1/4" 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

