

# TURBO-VAPORIZER™ MODEL 2860PE

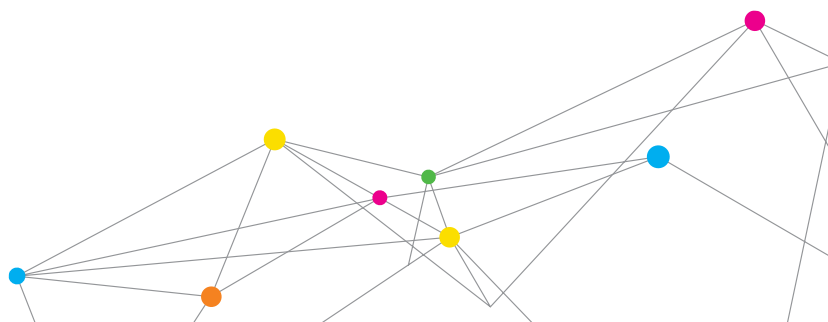
MSP's 2860PE Turbo-Vaporizer was designed as a drop-in replacement for poorly performing DLI valves. This model has our state-of-the-art Performance Enhanced (PE) atomizer with on-board flow control and can provide lower maintenance and higher concentrations.



<b>Dimensions:</b>	236 mm x 81 mm x 89 mm (9.3 inch x 3.2 inch x 3.5 inch)
<b>Weight:</b>	6.7lbs (3.0kg)
<b>Fittings (on the unit):</b>	
Carrier Gas Inlet:	1/4 inch VCR male
Liquid Inlet:	1/8 inch VCR male
Vapor Outlet:	1/4 inch VCR female
<b>Wetted Parts:</b>	SS 316, PEEK, PCTFE, Elgiloy®, Kalrez®, PTFE
<b>Leak Integrity:</b>	$\leq 1 \times 10^{-9}$ Pa·m <sup>3</sup> /s Helium
<b>Heater Power Requirements:</b>	220 V <sub>AC</sub> , 60 Hz, 300W
<b>Carrier Gas:</b>	Inert gas recommended
<b>Max Carrier Gas Flow<sup>1</sup>:</b>	3.5 standard liters/min N <sub>2</sub> (@70 psig inlet pressure)
<b>Max Liquid Flow<sup>2</sup>:</b>	60 g/hr (H <sub>2</sub> O or equivalent) 720 g/hr (TEOS or equivalent)
<b>System Pressure Limit:</b>	120psig
<b>Compressed Air:</b>	90 to 110 psig
<b>Temperature Range:</b>	40° C to 160° C 160° C to 200° C with use of air cooling (connections provided)
<b>Vaporizer Body:</b>	Vacuum tight chamber with multi-stage heat exchanger, SS 316 construction
<b>Temperature sensor:</b>	2 type K thermocouples

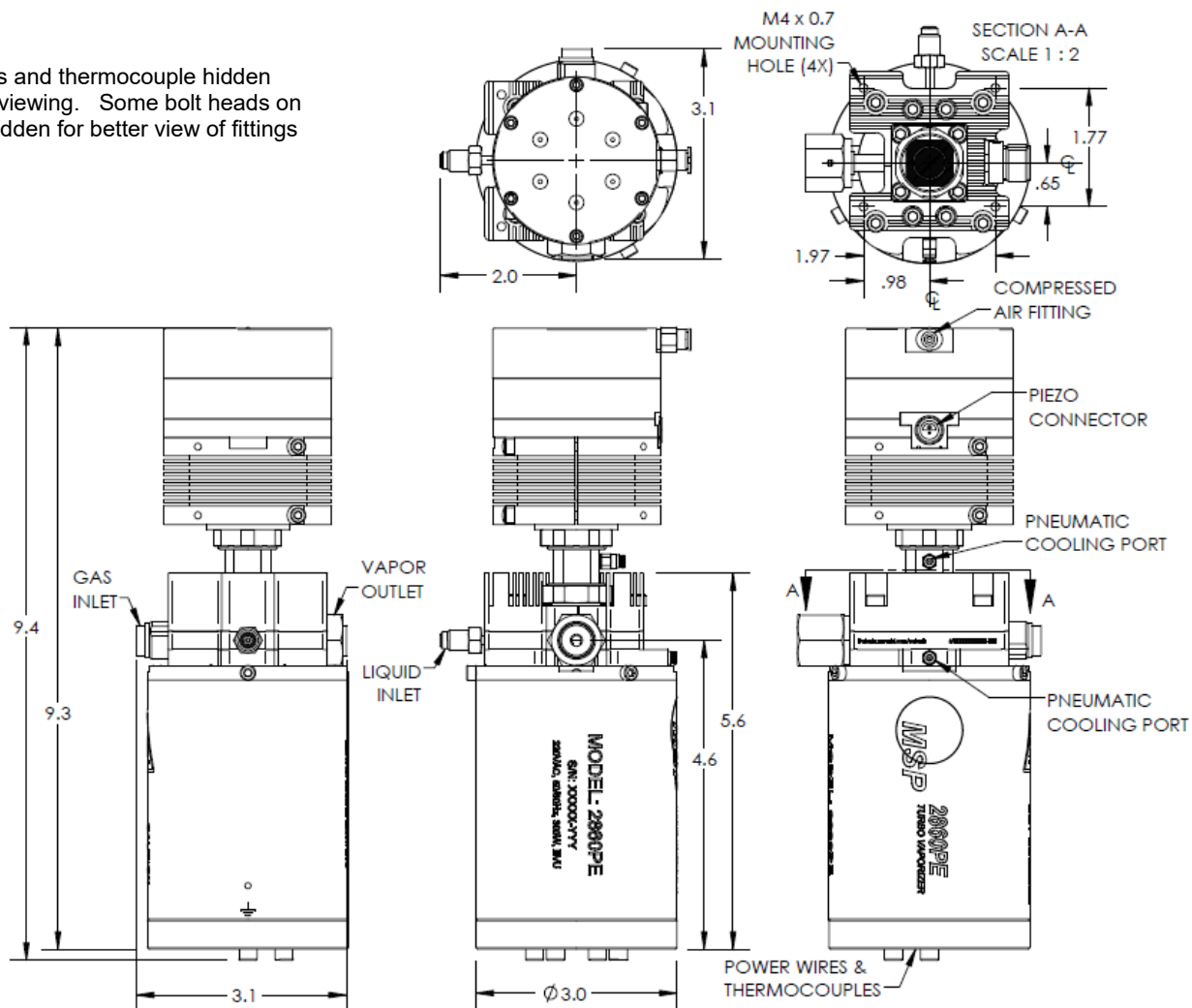
<sup>1</sup> Up to 15 standard L/min available.

<sup>2</sup> Max. liquid flow is process dependent. The spec assumes a vaporizer temperature of 180° C or higher, Ar carrier gas from 4-7 SLPM, and pressure < 50 Torr immediately downstream of the vaporizer.



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Power wires and thermocouple hidden for ease of viewing. Some bolt heads on unit were hidden for better view of fittings



All specifications are subject to change without notification.

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