## MSP TURBO™ VAPOR MODEL 2840PE

-2840P

MSP Turbo<sup>™</sup> Vaporizer 2840PE is one of our smallest vaporizers and has the state-of-the art PE atomizer with on-board flow control. This model has been optimized for low flow applications; featuring an ultra-fast response time making it a great choice for ALD applications.

9.6 inch x 3.8 inch x 4.2 inch

(244 mm x 97 mm x 107 mm)



## Weight:

7.2 lb (3.3 kg) Fittings (on the unit): Carrier Gas Inlet: 1/4 inch VCR female split nut 1/8 inch VCR female Liquid Inlet: 1/4 inch VCR female Vapor Outlet: Compressed Air 4 mm instant tube fitting Wetted Parts: SS 316, PEEK, PCTFE, Elgiloy®, Kalrez®, PTFE Leak Integrity: ≤ 1x 10<sup>-8</sup> Pa·m<sup>3</sup>/s Helium Heater Power Requirements: 110 VAC, 60 Hz, 300W Carrier Gas: Inert gas recommended Max Carrier Gas Flow<sup>1</sup>: 8.5 standard liters/min N<sub>2</sub> (@70 psig inlet pressure) 720 g/hr. (TEOS or equivalent) Max Liquid Flow<sup>2</sup>: 60 g/hr (H<sub>2</sub>0 or equivalent) System Pressure Limit: 120 psig Compressed Air: 90 to 110 psig 40° C to 160° C, Temperature Range: 160° C to 200° C with optional piezo cooling package Vacuum tight chamber with multi-stage heat Vaporizer Body: exchanger, SS 316 construction

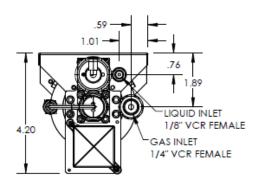
Temperature sensor:

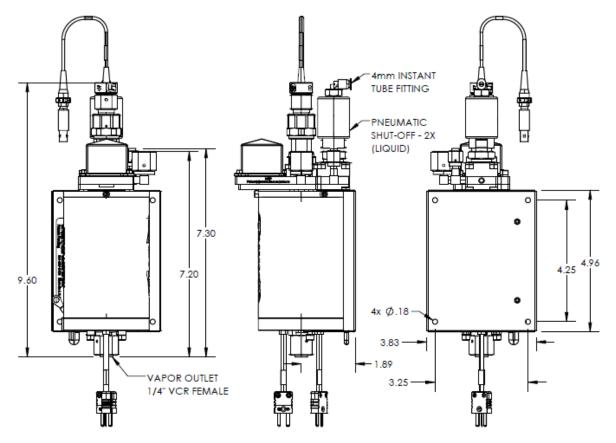
2 type K thermocouples

<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.







All specifications are subject to change without notification.

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MSP - Visit our website www.tsi.com/msp for more information.

5910 Rice Creek Parkway, Suite 300 Shoreview, Minnesota 55126, U.S.A. **Tel:** 651.287.8100

P/N 5002421 Rev D

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