

## MSP Turbo<sup>™</sup> Vaporizer

Model 2820D



MSP's 2820D Turbo™ Vaporizer has dual liquid inlets, making it a good choice for research applications or processes that require multiple liquids. The core system is very similar to the classic Turbo-Vaporizer Model 2820.

Dimensions 218 mm x 140 mm x 183 mm (8.6 inch x 5.5 inch x 7.2 inch)

Fittings (on the unit)

Carrier Gas Inlet 1/4 inch VCR female split nut Liquid Inlet (2) 1/8 inch VCR female (2x) Vapor Outlet 1/2 inch VCR female

Wetted Parts SS 316, Viton

 $\begin{array}{lll} \mbox{Leak Integrity} & < 1 \times 10^{-9} \ \mbox{Pa·m}^3/\mbox{s} \ (\mbox{He}) \\ \mbox{Heater Power Requirements} & 120 \ \mbox{V}_{\mbox{\tiny AC'}} \ 60 \ \mbox{Hz}, \ 300W \\ \mbox{Carrier Gas} & \mbox{Inert gas recommended} \\ \end{array}$ 

Max Carrier Gas Flow<sup>1</sup> 30 standard liters/min N<sub>2</sub> at 80 psig

30 standard liters/min N<sub>2</sub> at 50 psig

Max Liquid Flow Rate<sup>2</sup> 600 g/hr. (TEOS equivalent)

60 g/hr. (H<sub>2</sub>O or equivalent)

System Pressure Limit 150 psig

Compressed Air 90 to 110 psig
Temperature Range 40° C to 200° C

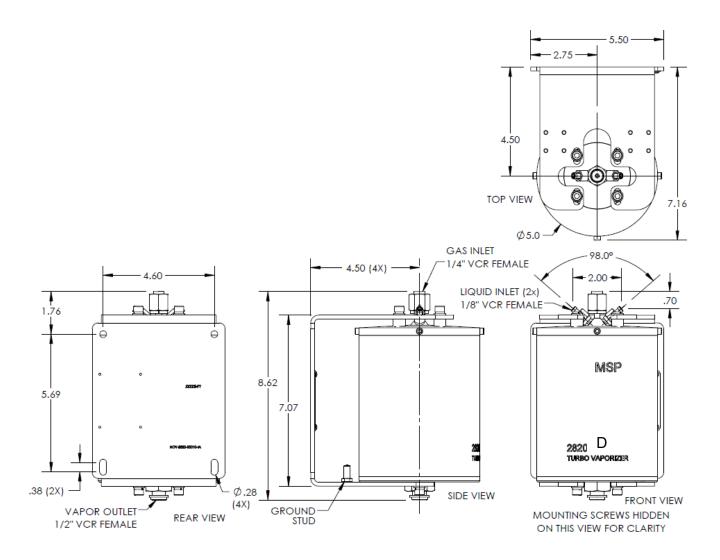
Temperature Sensor 2 type K thermocouples

Vaporizer Body Vacuum tight chamber with multi-stage heat exchanger, SS 316 construction

<sup>&</sup>lt;sup>1</sup> Max Carrier Gas Flow Rate is adjustable; visit www.tsi.com/contact to request more information.

<sup>&</sup>lt;sup>2</sup> Max Liquid Flow Rate is process dependent. The spec assumes a vaporizer temperature of 180° C or higher, N<sub>2</sub> carrier gas flow ≥20 SLPM, and pressure <10 Torr immediately downstream of the vaporizer.





All specifications are subject to change without notification.

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