

MSP Turbo[™] Vaporizer

Model 2821

MSP's 2821 Turbo[™] Vaporizer provides the highest liquid flow rate of the standard MSP vaporizers. It features 3600W of heater power and can be used to deliver flow rates up to 6000g/hr (TEOS or equivalent).

Dimensions

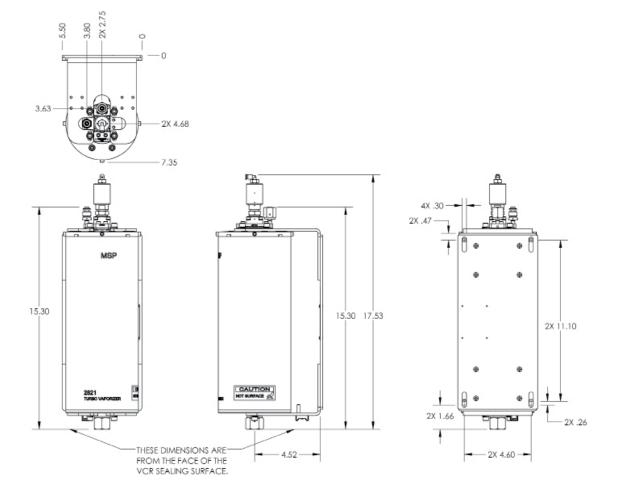
417 mm x 140 mm x 183 mm (16.4 inch x 5.5 inch x 7.2 inch)

Fittings (on the unit) Carrier Gas Inlet Liquid Inlet Vapor Outlet Compressed Air	1/4 inch VCR female split nut 1/4 inch VCR male 1/2 inch VCR female 4 mm instant tube fitting
Wetted Parts	SS 316, KKFM, PTFE, Nickel
Leak Integrity	< 1 x 10 ⁻⁹ Pa·m ³ /s (He)
Heater Power Requirements	220 V _{AC} , 60 Hz, 3600W
Carrier Gas	Inert gas recommended
Max Carrier Gas Flow ¹	30 standard liters/min N $_2$ at 80 psig 20 standard liters/min N $_2$ at 50 psig
Max Liquid Flow Rate ²	6,000 g/hr. (TEOS equivalent) 600 g/hr. (H ₂ 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

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

² Max Liquid Flow Rate is process dependent. The spec assumes a vaporizer temperature of 180° C

or higher, N₂ carrier gas flow \geq 20 SLPM, and pressure <10 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.

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P/N 5002419 Rev C

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