



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).

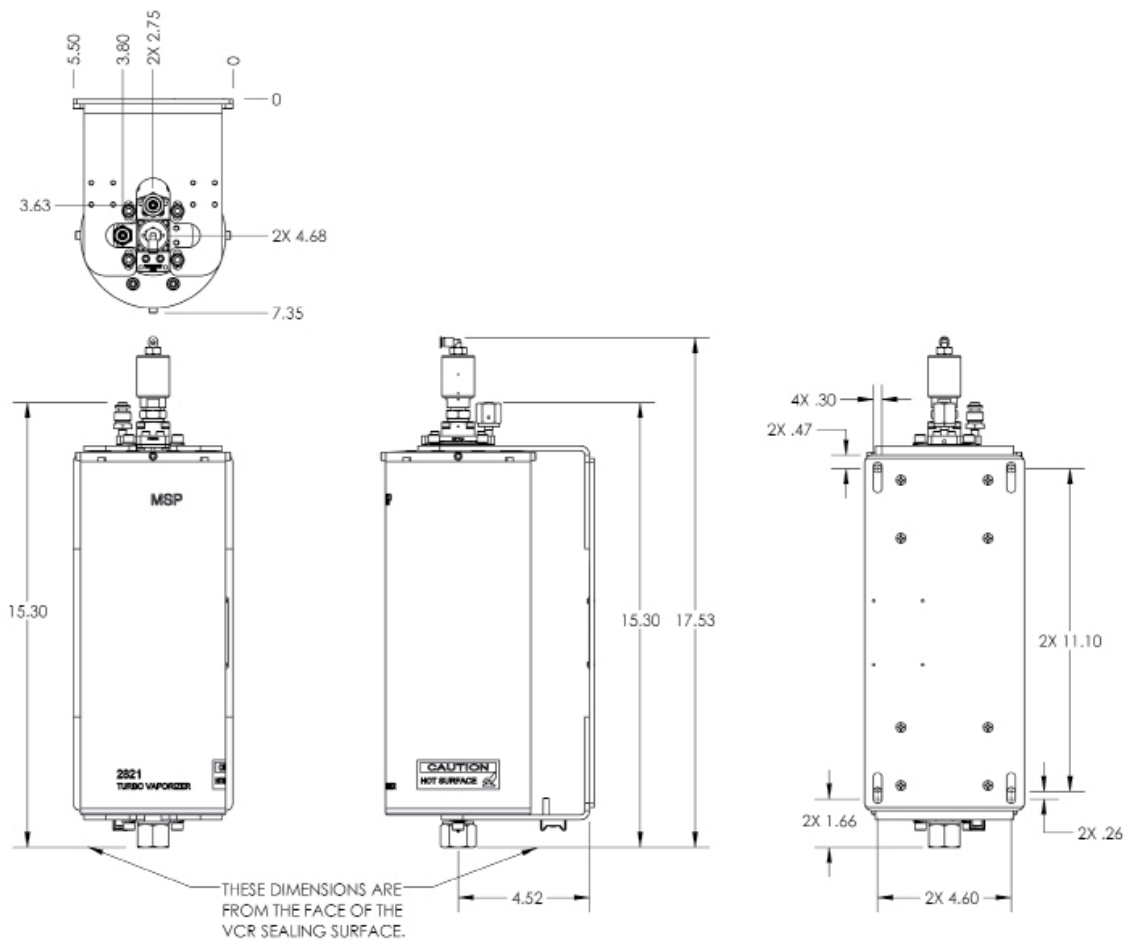
Dimensions	417 mm x 140 mm x 183 mm (16.4 inch x 5.5 inch x 7.2 inch)
Fittings (on the unit)	
Carrier Gas Inlet	1/4 inch VCR female split nut
Liquid Inlet	1/4 inch VCR male
Vapor Outlet	1/2 inch VCR female
Compressed Air	4 mm instant tube fitting
Wetted Parts	SS 316, KKFM, PTFE, Nickel
Leak Integrity	$< 1 \times 10^{-9}$ 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 ≥ 20 SLPM, and pressure < 10 Torr immediately downstream of the vaporizer.

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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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