

High pressure atmospheric vaporizers

For technical gases 'Vap' series

HIGH THERMAL EXCHANGE PERFORMANCE AND VANZETTI'S MODULAR PHILOSOPHY



The high pressure atmospheric vaporizers, used to evaporate cryogenic fluids, represent an essential component of technical and medical gas filling systems.

Vanzetti Engineering vaporizers have a high structural strength that allows to use them both from time to time and continuously with 8 to 24 hours non-stop operation (depending on the model).

In particular, the vaporizers of the 'VAP' series stand out thanks to:

- > the single exchange elements consisting of an inner pipe (chosen from a wide range of materials) inserted in an aluminum finned profile tube with a large exchange surface
- > wide range of single and modular models able to comply with the most exacting installation requirements
- > the special assemblage technique 'finned profile pipe' that guarantees a highly effective thermal exchange by ensuring a perfect 'metal to metal' contact between the inner pipe and the outer fins. This permits the vaporizer to reach an absolutely remarkable performance level

TECHNICAL FEATURES:

- > **Copper, AISI 304 stainless steel or Monel 400 piping**
- > **Aluminum supporting structure with feet for fixing to the floor**
- > **Inlet/outlet connections equipped with nut + tang with metal seal fitting preset for connection to the mains**



High pressure atmospheric vaporizers



Please define the high pressure vaporizer model most suitable for your requirements by using the following table ⁽¹⁾:

OPTIONS	COPPER PIPING	STAINLESS STEEL PIPING	MONEL PIPING
FLOW RATE 160 Nm ³ /h	-	<input type="checkbox"/>	-
FLOW RATE 200 Nm ³ /h	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLOW RATE 300 Nm ³ /h	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLOW RATE 400 Nm ³ /h	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLOW RATE 500 Nm ³ /h	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLOW RATE 600 Nm ³ /h	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLOW RATE 800 Nm ³ /h	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OPERATING PRESSURE 250 bar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OPERATING PRESSURE 350 bar	-	<input type="checkbox"/>	<input type="checkbox"/>
INLET CONNECTION STAINLESS STEEL Ø 16mm - 21.3mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OUTLET CONNECTION STAINLESS STEEL Ø 16mm - 21.3mm	-	<input type="checkbox"/>	-
OUTLET CONNECTION STAINLESS STEEL Ø 26.7mm	-	<input type="checkbox"/>	-
OUTLET CONNECTION MONEL Ø 16mm - 21.3mm	<input type="checkbox"/>	-	<input type="checkbox"/>
OUTLET CONNECTION MONEL Ø 26.7mm	<input type="checkbox"/>	-	<input type="checkbox"/>
OUTLET CONNECTION COPPER Ø 22mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OUTLET CONNECTION COPPER Ø 30mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

⁽¹⁾ Use of the table:

after choosing the piping material, select the various options in view of your installation requirements. Then send the table to our technical/commercial department. They will send you the offer and the literature relevant to the model of your choice.

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NOTE:

The performance of the atmospheric vaporizers is influenced by various factors such as: pump efficiency, ambient temperature, relative humidity, altitude, wind, sun radiations, operating pressure and adjacent structures that might alter the thermal exchange.

The flow rate is calculated for fluid oxygen at P=150 bars and T° = -146°C, 21°C room temperature, 70% relative humidity, +4°C outlet gas temperature .