

# TECHNICAL DATASHEET

## VENUS N06



ErreDue Nitrogen generators use the PSA filtration system for filtering ambient air to obtain a continuous flow of pure Nitrogen.

The system is made up by two sets of aluminum extruded columns filled with "CMS" (Carbon Molecular Sieve).

A stream of compressed and pre-treated air flows through the columns from the bottom to the top, the Oxygen is absorbed by the filtering material whilst Nitrogen outgoing from the top of the towers is collected in a storage tank, ready to be used.

MODEL	N° OF TOWERS	DIMENSIONS (mm)			WEIGHT (kg)
		L	P	H	
GN180	6+6	3450	1500	2500	3550
GN240	8+8	4090	1500	2500	4000
GN300	10+10	4750	1500	2500	4900

Example of production of Venus N06 generators at different purity levels:

MODEL	MAX NITROGEN FLOW RATE @ 95% (m <sup>3</sup> /h)	MAX NITROGEN FLOW RATE @ 99.9995% (m <sup>3</sup> /h)
<b>GN180</b>	540	51
<b>GN240</b>	720	68
<b>GN300</b>	900	85



## TECHNICAL FEATURES

<b>RESIDUAL OXYGEN CONCENTRATION</b>	5,0% TO 0,0005%
<b>GAS DEW POINT</b>	-40°C
<b>NITROGEN OUTLET PRESSURE</b>	5 - 8,5 BAR
<b>AIR INLET PRESSURE</b>	7 - 10,0 BAR
<b>INLET AIR QUALITY</b>	Iso 8573.1 class 1.4.1
<b>VOLTAGE</b>	230V AC/ 50Hz
<b>NOMINAL POWER</b>	120W
<b>POWER CONSUMPTION</b>	< 100 WATT
<b>CONTROL LOGIC</b>	PLC ABB
<b>GAS PURITY</b>	OPTIONAL ANALYSER
<b>DATA COLLECTION THROUGH ETHERNET CONNECTION</b>	OPTIONAL

## ENVIRONMENTAL CONDITIONS

Temperature: between 0-35°C

Relative humidity: between 20-80%

Maximum elevation for standard performance: 1000mt above sea level

Noise: <72dBA

## REFERENCE STANDARDS

ErreDue products are built according to the most advanced state of the art, according to European standards with related CE mark, particularly:

**EN60204-1:2006, EN 60079-10-1 (CEI 31-87):2010, EN ISO 13857: 2008, ISO 22734-1:2008, EN ISO 12100:2010, PED directive 2014/68/UE, Machinery directive 2006/42/CE, Electromagnetic compatibility directive 2004/108/CE.**

**ErreDue reserves the right to change above data without any notice.**

