

## TECHNICAL DATASHEET

### VENUS N07



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	TOWERS	DIMENSIONS (mm)			WEIGHT (kg)
		L	P	H	
EGN5	1+1	700	900	1650	225
EGN10	2+2	700	900	1650	360

Examples of production of N07 generators at different purity values:

MODEL	MAX NITROGEN FLOW RATE @ 95% (m <sup>3</sup> /h)	MAX NITROGEN FLOW RATE @ 99.9995% (m <sup>3</sup> /h)
EGN5	15	1.55
EGN10	30	3.1



## TECHNICAL FEATURES

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



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