

TECHNICAL DATASHEET

VENUS N02



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	MAXIMUM N° OF TOWERS	DIMENSIONS (mm)			WEIGHT (kg)
			W	D	H	
GN20	2+2	3+3	840	1325	2100	470
GN30	3+3	3+3	840	1325	2100	650
GN40	4+4	5+5	840	1800	2100	810
GN50	5+5	5+5	840	1800	2100	910

Example of production of Venus N02 generators at different purity levels:

MODEL	MAX NITROGEN FLOW RATE @ 95% (m ³ /h)	MAX NITROGEN FLOW RATE @ 99.9995% (m ³ /h)
GN20	60	5.7
GN30	90	8.5
GN40	120	11.3
GN50	150	14.2



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 - 10,0 BAR
INLET AIR QUALITY	Iso 8573.1 class 1.4.1
VOLTAGE	230V AC/ 50Hz
NOMINAL 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.

