cmc Instruments GmbH
Rudolf Diesel Strasse 12 A
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NGM - C series: Nitrogen Hybrid Generator including collision cell gas (Nitrogen 99.99995%)

Two in One Generator

NEW PRODUCT

Features:

- **Provides Nitrogen in both purities: 99.7% and 99.99995%.**
- **No need for bottled Nitrogen.**
- **Separate outlets for drying gas and collision cell gas.**

Applications

- **For LC/MS, LC/MS/MS Triple Quadruple systems that require ultrapure nitrogen for the collision-cell**

In order to attend totally the gas requirements of Triple Quadrupol MS Systems cmc Instruments offers a new and individual generator for both drying and collision cell gas.

Drying-Gas Supply (max. 99.7%):

The nitrogen is produced through polymeric membrane technology. The system contains thousands of filaments which are flowed by pre-cleaned compressed air and so separate oxygen and nitrogen by filtration and adsorption process. Nitrogen with 99,7% purity is achieved by wear-free system, no vibration and totally noiseless.

Collision-Cell Gas Supply (99.99995%):

The collision cell requires ultra-high purity gas and it is usually supplied by bottled nitrogen. This common source implies additional installation to storage high pressure bottles properly. Also, additional services and trainings are requested due to complex operation and safety concerns regarding cylinders

The NGM-C-Serie was developed to offer End-Users a suitable, safety and reliable solution. This Serie provides high pure Nitrogen which is safely and locally produced to attend drying gas and collision cell gas requirements as well.

The NGM-C is outfitted with an additional purification unit based on an adsorption system. It provides nitrogen with 99.99995% purity and free of moisture, hydrocarbons and CO2 as request by collision cell without necessity of bottled nitrogen.

It is also in the backside with two outlets and different pressure regulators for each application accordingly MS instrument requirements. Additional outlets are available to be set and customized as customer request.

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Two in One Generator

Features	**NGM 22-C** ***Single LCMS workplace***	**NGM 33-C** ***Two LCMS workplaces***
Purity	Drying-Gas: max. 99.7 % Collision Cell Gas: 99.99995 %	Drying-Gas: max. 99.7 % Collision Cell Gas: 99.99995 %
Max Flow *	Drying-Gas: 48 L/min Collision Cell Gas: 70 ml/min	Drying-Gas: 75 L/min Collision Cell Gas: 70 ml/min
Pressure	Drying-Gas: 6 bar Collision Cell Gas: 6 bar	Drying-Gas: 6 bar Collision Cell Gas: 6 bar
Dimensions (h x w x d)	1220 x 370 x 405 mm **	1220 x 370 x 405 mm **
Weight (kg)	55 kg	68 kg
Connections	Drying-Gas: 6 mm OD Collision Cell Gas: 6 mm (opt. ¼“ or 1/8“)	Drying-Gas: 6 mm OD Collision Cell Gas: 6 mm (opt. ¼“ or 1/8“)
Electrical Power	230 VAC / 50 Hz	230 VAC / 50 Hz
Compressed Air Inlet **	16 mm OD, 12 mm ID, others available on request	16 mm OD, 12 mm ID, others available on request

* *At 8.0 bar compressed-air-inlet-pressure*

** *Connections and Controls add 50 mm at the front and 80 mm at the rear*

*** *Requirements compressed air:*

Both systems require compressed air in the following conditions (ISO 8573-1:2010 [1:4:0]): 7-10 barg; ambient temperature +5…40°C; oil free, water free (Dew Point <+4°C). In case of no local compressed air supply, these systems are recommended to be accomplished with the cmc SC Serie — the scroll line of cmc compressors. The Serie offers 100% oil-free scroll compressors with external refrigerant air dryer and receiver, which is known for the efficiency and low-cost operation.

Please contact cmc in order to optimize your project.

cmc Instruments GmbH

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