

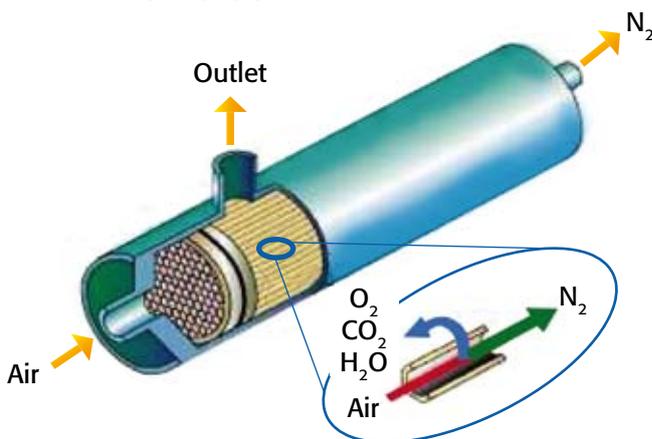


Nitrogen generators

N₂-Whisper Series



MEMBRANE TECHNOLOGY



The Whisper nitrogen generator has been developed to meet specific requirements in terms of flow, purity and pressure in LC-MS applications. It can also be used for the evaporation of solvents in samples being analysed.

The simple high efficiency membrane technology allows the separation of nitrogen from the other components of the compressed air inlet.

Benefits

Better results from analytical instruments

The constant purity of the nitrogen improves system stability and ensures reproducible results.

Better lab efficiency

The large nitrogen volumes used in analytical labs for LC-MS techniques mean gas bottles are insufficient to ensure good lab productivity. Easy front panel filters allow fast and cheap maintenance.

Cost savings

The investment can normally be paid back in less than a year.

No pipeline is required to carry the gas from the storeroom to the lab, no cost inflation.

Improved safety

Nitrogen produced at low pressure and at room temperature eliminates the risks relating to high pressure gas bottle use and the handling of liquid nitrogen.

... and simple installation

The Whisper nitrogen generator is very easy to install in the lab.

The exclusive "Split System" design allows the section containing the compressor to be installed separately from the nitrogen production assembly, which can be wall-mounted to save precious space!



Specifications	N2- WHISPER 2- 35	N2- WHISPER 1- 20
Max flow	35 L/min	20 L/min
Purity	> 98.5% - 99.5%	> 98.5% - 99.5%
Outlet pressure	7.5 bar	7.5 bar
Residual particulate	< 0.01 microns	< 0.01 microns
Dewpoint at operating pressure	- 40°C	- 40°C
Maximum operating temperature	10°C - 35°C	10°C - 35°C
Air compressor supplied	270 litres/min	135 litres/min
Background noise	< 60 dB or Split System	< 58 dB or Split System
Electrical specifications	220V -50Hz/60Hz	220V -50Hz/60Hz
Connections	¼ G	¼ G
Weight (kg)	160	130
Dimensions (cm)	130H x 48W x 98D	

Specifications

The Whisper 1 and Whisper 2 nitrogen generators are available in 2 models:

- WHISPER 1-50: max 20litres/min
- WHISPER 2-50: max 35 litres/min

Dewpoint: - 40°C

Outlet purity: > 98.5% (depending on flow)

Power: 220V/50Hz or 220V/60Hz

Noise: < 60 dB or absent when using the "Split System"

Routine maintenance: simple filter replacement once a year

Fitted with external accumulation vessel, automatic stop when nitrogen is not required

Whisper has an additional clean compressed air outlet for use in all LC-MS analytical applications.

CE certification



Specifications	N ₂ - Whisper 0 - 40	N ₂ - Whisper 0 - 80	N ₂ - Whisper 0 - 120
Max flow	40 L/min	80 L/min	120 L/min
Inlet air	200 L/min	400 L/min	600 L/min
Outlet pressure	7 bar	7 bar	7 bar
Inlet air pressure	8-10 bar	8-10 bar	8-10 bar
Pressure drop	< 0.8 bar (10 psig)	< 0.8 bar (10 psig)	< 0.8 bar (10 psig)
Purity (based on outlet flow)	> 98 - 99.5%	> 98 - 99.5%	> 98 - 99.5%
Residual particulate	< 0.01 microns	< 0.01 microns	< 0.01 microns
Dewpoint	- 40°C	- 40°C	- 40°C
Maximum operating temperature	10°C - 35°C	10°C - 35°C	10°C - 35°C
Air compressor supplied	NO	NO	NO
Background noise	none	none	none
Electrical requirements	none	none	none
Connections	¼ G	¼ G	¼ G
Weight (kg)	15	18	21
Dimensions (cm)	115H x 48W x 26D		

Specifications

The Whisper-0 nitrogen generator is available

in 3 models:

- Whisper 0-40L max. 40 litres/min
- Whisper 0-80L max. 80 litres/min
- Whisper 0-120L max. 120 litres/min

Inlet air pressure: 8 bar

Dewpoint: - 40°C

Outlet purity: > 98.5%

Power: not required

Noise: no moving mechanical parts

Routine maintenance: simple filter replacement once a year.

CE certification



Specifications	WHISPER HYBRID 2-35	WHISPER HYBRID 1-20
Max N₂ flow	5 lit/min @ 80psi	
Source air gas	20-26 lit/min @ 100psi	
Exhaust air gas	6-10 lit/min @ 60psi	
Purity	> 99%	
Residual particulate	< 0.01 microns	
Dewpoint at operating pressure	- 40°C	
Maximum operating temperature	10°C - 35°C	
Air compressor supplied	270 litres/min	135 litres/min
Background noise	< 60°db or Split system	
Electrical specifications	220V - 50Hz/60Hz	
Connections	¼ G	
Weight (kg)	150	120
Dimensions (cm)	130H x 48W x 98D	

Specifications

The Whisper 1 and Whisper 2 nitrogen/air generators are available in 2 models:

- WHISPER Hybrid 1-50: with single compressor
- WHISPER Hybrid 2-50: with double compressor

Dew point of nitrogen produced: < 40°C

Outlet nitrogen purity: > 99%

Power: 220V/50Hz or 220V/60Hz

Noise: < 60 dB or absent when using the "split system"

Routine maintenance: simple filter replacement once a year

Fitted with external accumulation vessels, automatic stop when nitrogen or air are not required

Whisper Hybrid has a clean compressed air outlets:

- Source air gas: 20-26 lit/min @ 100psi
- Exhaust air gas: 6-10 lit/min @ 60psi

CE certification



Specifications	N ₂ - Mini-Whisper
Out max flow	8 lit/min
Input air flow	> 40 lit/min
Out pressure	7 bar
Input air pressure	5-8 bar
Pressure drop	< 0.8 bar (10 psig)
Purity (based on outlet flow)	> 98 - 99.5%
Residual particulate	< 0.01 micron
Dewpoint	- 40°C
Maximum operating temperature	10°C - 35°C
Air compressor supplied	NO
Background noise	none
Electrical requirements	none
Connections	¼ G
Weight (kg)	8
Dimensions (cm)	74H x 35W x 35D

Specifications

Max output flow: 8 lit/min

Inlet pressure: 5-8 bar

Dewpoint: - 40°C

Purity: > 99%

Power: not required

Background noise: none

Routine maintenance: simple filter replacement once a year.

CE certification