

Technical Information

SEPURAN® N₂ - 6 inch standard

CONTENT

CARTRIDGE

• **N2 Cart 150x1310 A 16**

SAP-No.: 99133744

Dimension: 6 inch standard
 Operating pressure: ≤ 16 barg | ≤ 232 psig

• **N2 Cart 150x1310 A 25**

SAP-No.: 99106621

Dimension: 6 inch standard
 Operating pressure: ≤ 25 barg | ≤ 362.6 psig

SYSTEM

• **N2Sys 150x1310 P1.5G 6 16AS**

SAP-No.: 99141882

Dimension: 6 inch standard
 Feed/Retentate port: 1" BSPP-Thread and Victaulic 1½"
 Permeate port: 1½" BSPP-Thread and Victaulic 2"
 Operating pressure: ≤ 16 barg | ≤ 232 psig
 Housing material: SS 316 – 1.4404
 Housing certification: ASME / CRN

• **N2Sys 150x1310 P1.5G 6 16EN**

SAP-No.: 99142104

Dimension: 6 inch standard
 Feed/Retentate port: 1" BSPP-Thread and Victaulic 1½"
 Permeate port: 1½" BSPP-Thread and Victaulic 2"
 Operating pressure: ≤ 16 barg | ≤ 232 psig
 Housing material: SS 316 – 1.4404
 Housing certification: PED

• **N2Sys 150x1310 P2.0N 6 16CN**

SAP-No.: 99141774

Dimension: 6 inch standard
 Feed/Retentate port: 1" NPT-Thread and Victaulic 1½"
 Permeate port: 2" NPT-Thread
 Operating pressure: ≤ 16 barg | ≤ 232 psig
 Housing material: SS 316 – 1.4404
 Housing certification: SELO

CONTENT

• **N2Sys 150x1310 P2.0N 6 16AE**

SAP-No.: 99133946

Dimension:	6 inch standard
Feed/Retentate port:	1" NPT-Thread and Victaulic 1½"
Permeate port:	2" NPT-Thread
Operating pressure:	≤ 16 barg ≤ 232 psig
Housing material:	SS 316 – 1.4404
Housing certification:	PED / ASME / CRN

• **N2Sys 150x1310 P1.5F 6 25AS**

SAP-No.: 99142727

Dimension:	6 inch standard
Feed/Retentate port:	1" Flange
Permeate port:	1½" Flange
Operating pressure:	≤ 25 barg ≤ 362.6 psig
Housing material:	SS 316 – 1.4404
Housing certification:	ASME

• **N2Sys 150x1310 P1.5F 6 25EN**

SAP-No.: 99142729

Dimension:	6 inch standard
Feed/Retentate port:	1" Flange
Permeate port:	1½" Flange
Operating pressure:	≤ 25 barg ≤ 362.6 psig
Housing material:	SS 316 – 1.4404
Housing certification:	PED

• **N2Sys 150x1310 P2.0N 6 25CN**

SAP-No.: 99122991

Dimension:	6 inch standard
Feed/Retentate port:	1" NPT-Thread and Victaulic 1½"
Permeate port:	2" NPT-Thread
Operating pressure:	≤ 25 barg ≤ 362.6 psig
Housing material:	SS 316 – 1.4404
Housing certification:	SELO

• **N2Sys 150x1310 P2.0N 6 25AE**

SAP-No.: 99111367

Dimension:	6 inch standard
Feed/Retentate port:	1" NPT-Thread and Victaulic 1½"
Permeate port:	2" NPT-Thread
Operating pressure:	≤ 25 barg ≤ 362.6 psig
Housing material:	SS 316 – 1.4404
Housing certification:	PED / ASME / CRN

CONTENT

GLOSSARY PRESSURE EQUIPMENT CERTIFICATION

EN ... PED	- European Pressure Equipment Directive 2014/68/EU
AS ... ASME	- ASME Boiler and Pressure Vessel Code Section VIII, Div.1
CN ... SELO	- China Special Equipment Licensing Office (SELO)
AE ... PED / ASME	- European Pressure Equipment Directive 2014/68/EU, ASME Boiler and Pressure Vessel Code Section VIII, Div.1
CA ... ASME / CRN	- ASME Boiler and Pressure Vessel Code Section VIII, Div.1 and Canadian Registration Number (CRN)
EC ... PED / ASME / CRN	- European Pressure Equipment Directive 2014/68/EU, ASME Boiler and Pressure Vessel Code Section VIII, Div.1 and Canadian Registration Number (CRN)
NR ... ASME / NR13	- ASME Codes and National Regulation 13

Technical Information

SEPURAN® N₂ Cartridge

SEPURAN® – N₂ Cart 150x1310 A 16



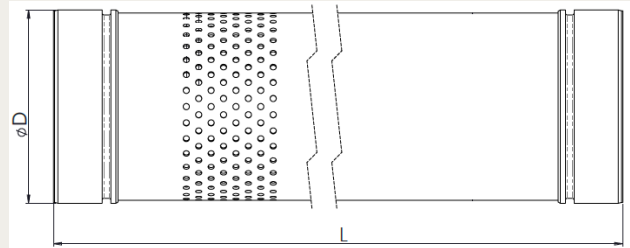
SEPURAN® N₂ cartridge (sample picture)

Associated documents:

- User manual SEPURAN® N₂ cartridge
- Technical drawing

SEPURAN® N₂ is a hollow fiber membrane gas separator that is used to remove oxygen from compressed air, resulting in N₂ purities between 95–99.5%. The polymer is specially tailored for nitrogen generation. Unlike other gas separation membranes, **SEPURAN® N₂** membranes are characterized by a very high flow capacity with a very good air factor, resulting in the optimization of compression and operating cost.

DIMENSIONS



Max diameter – D	154.8 mm 6.09 inch
Total length – L	1 310 mm 51.57 inch
Weight	9.3 kg 20.5 lbs
Drawing number	EVK-Cart_6N-1-C-V02-A

For more specific dimensions of the cartridge, please use the corresponding technical drawing.

SPECIFICATIONS

External material cartridge tube	Aluminium
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure	≤ 16.0 bar ≤ 232.0 psi
Max. operating feed pressure¹	≤ 16.0 barg ≤ 232.0 psig
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 - 70°C 34 - 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1] Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

	N2 produced in Nm ³ /h at 7.0 barg; 25°C in scfm at 102.0 psig; 77°F ²	Air / N2 ratio
99%	19.1 11.9	3.7
98%	27.2 17.0	2.9
97%	34.7 21.7	2.5
96%	42.3 26.5	2.3
95%	50.4 31.5	2.1

The composition of the product was determined by measurement of the residual oxygen content. The “N2 produced” value is the inert gas content. The pressure is the retentate pressure, namely N2 produced stream discharge pressure. The inlet air divided by “N2 produced” gives the air factor or air/N2 ratio. The lower the air factor, the lower the investment and operating costs.

CAUTION

Nitrogen gas is colorless, odorless and nonflammable. It is non-toxic but may cause asphyxiation by displacement of oxygen. Ensure proper ventilation. Oxygen is a colorless, odorless and oxidizing gas. It is non-toxic, but at high concentrations in the atmosphere it accelerates combustion and increases the risk of fire and explosion of combustible or flammable materials.

OPERATION

The proper operation of **SEPURAN® N2** cartridges is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99133744	SEPURAN® - N2 Cart 150x1310 A 16

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

Disclaimer

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Technical Information

SEPURAN® N₂ Cartridge

SEPURAN® – N₂ Cart 150x1310 A 25



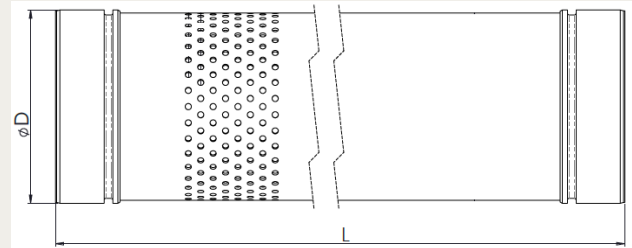
SEPURAN® N₂ cartridge (sample picture)

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- User manual SEPURAN® N₂ cartridge
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DIMENSIONS



Max diameter – D	154.8 mm 6.09 inch
Total length – L	1 310 mm 51.57 inch
Weight	9.3 kg 20.5 lbs
Drawing number	EVK-Cart_6N-1-C-V02-A

For more specific dimensions of the cartridge, please use the corresponding technical drawing.

SPECIFICATIONS

External material cartridge tube	Aluminium
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure	≤ 25.0 bar ≤ 362.6 psi
Max. operating feed pressure¹	≤ 25.0 barg ≤ 362.6 psig
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 – 70°C 34 – 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1] Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

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CAUTION

Nitrogen gas is colorless, odorless and nonflammable. It is non-toxic but may cause asphyxiation by displacement of oxygen. Ensure proper ventilation. Oxygen is a colorless, odorless and oxidizing gas. It is non-toxic, but at high concentrations in the atmosphere it accelerates combustion and increases the risk of fire and explosion of combustible or flammable materials.

OPERATION

The proper operation of **SEPURAN® N2** cartridges is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99106621	SEPURAN® – N2 Cart 150x1310 A 25

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

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Technical Information

SEPURAN® N₂ System

SEPURAN® – N2Sys 150x1310 P1.5G 6 16AS



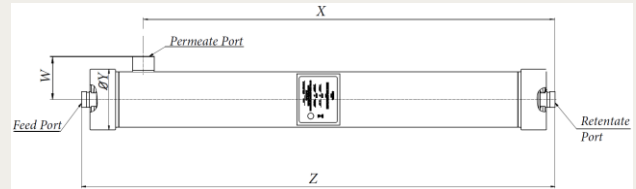
SEPURAN® N₂ system (sample picture)

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SEPURAN® N₂ is a hollow fiber membrane gas separator that is used to remove oxygen from compressed air, resulting in N₂ purities between 95–99.5%. The polymer is specially tailored for nitrogen generation. Unlike other gas separation membranes, SEPURAN® N₂ membranes are characterized by a very high flow capacity with a very good air factor, resulting in the optimization of compression and operating cost.

DIMENSIONS



Permeate port – W	136 mm 5.35 inch
Permeate port – X	1 259 mm 49.57 inch
Max diameter – Y	184 mm 7.24 inch
Total length – Z	1 448 mm 57.01 inch
Feed / Retentate connection	BSPP–Thread 1" and Victaulic 1½"
Permeate connection	BSPP–Thread 1½" and Victaulic 2"
Weight	38.3 kg 84.4 lbs
Drawing number	EVK–Hsg 6N–1 1.5–1.0G 6 25AS–C–V01–A

For more specific dimensions of the system, please use the corresponding technical drawing.

SPECIFICATIONS

Design, manufacturing and testing acc. to	ASME / CRN
External material housing	SS 316 – 1.4404
External material cartridge tube	Aluminium
Operating pressure Feed- / Retentate side	≤ 16.0 barg ≤ 232.0 psig
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure¹	≤ 16.0 bar ≤ 232.0 psi
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 – 70°C 34 – 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1] Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

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OPERATION

The proper operation of **SEPURAN® N2** systems is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99141882	SEPURAN® – N2Sys 150x1310 P1.5G 6 16AS

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

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Technical Information

SEPURAN® N₂ System

SEPURAN® – N2Sys 150x1310 P1.5G 6 16EN



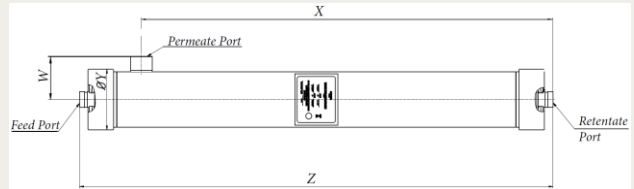
SEPURAN® N₂ system (sample picture)

Associated documents:

- User manual SEPURAN® N₂ system
- Technical drawing

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DIMENSIONS



Permeate port – W	136 mm 5.35 inch
Permeate port – X	1 259 mm 49.57 inch
Max diameter – Y	184 mm 7.24 inch
Total length – Z	1 448 mm 57.01 inch
Feed / Retentate connection	BSPP–Thread 1" and Victaulic 1½"
Permeate connection	BSPP–Thread 1½" and Victaulic 2"
Weight	38.3 kg 84.4 lbs
Drawing number	EVK–Hsg 6N–1 1.5–1.0G 6 25EN–C–V01–A

For more specific dimensions of the system, please use the corresponding technical drawing.

SPECIFICATIONS

Design, manufacturing and testing acc. to	EN
External material housing	SS 316 – 1.4404
External material cartridge tube	Aluminium
Operating pressure Feed- / Retentate side	≤ 16.0 barg ≤ 232.0 psig
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure¹	≤ 16.0 bar ≤ 232.0 psi
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 – 70°C 34 – 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1] Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

	N2 produced in Nm ³ /h at 7.0 barg; 25°C in scfm at 102.0 psig; 77°F ²	Air / N2 ratio
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CAUTION

Nitrogen gas is colorless, odorless and nonflammable. It is non-toxic but may cause asphyxiation by displacement of oxygen. Ensure proper ventilation. Oxygen is a colorless, odorless and oxidizing gas. It is non-toxic, but at high concentrations in the atmosphere it accelerates combustion and increases the risk of fire and explosion of combustible or flammable materials.

OPERATION

The proper operation of **SEPURAN® N2** systems is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99142104	SEPURAN® – N2Sys 150x1310 P1.5G 6 16EN

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

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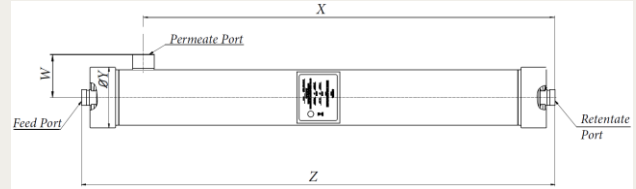
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Permeate port – X	1 259 mm 49.57 inch
Max diameter – Y	184 mm 7.24 inch
Total length – Z	1 448 mm 57.01 inch
Feed / Retentate connection	NPT–Thread 1" and Victaulic 1½"
Permeate connection	NPT–Thread 2"
Weight	39.3 kg 86.6 lbs
Drawing number	EVK–Hsg 6N–1 2.0–1.0N 6 25CN–C–V01–A

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SPECIFICATIONS

Design, manufacturing and testing acc. to	SELO
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External material cartridge tube	Aluminium
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OPERATION

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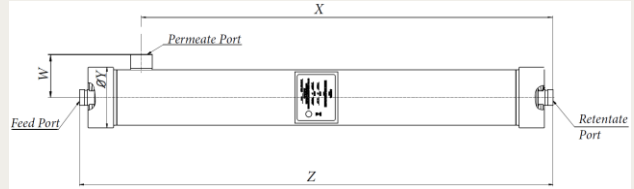
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For more specific dimensions of the system, please use the corresponding technical drawing.

SPECIFICATIONS

Design, manufacturing and testing acc. to	EN / ASME / CRN
External material housing	SS 316 – 1.4404
External material cartridge tube	Aluminium
Operating pressure Feed- / Retentate side	≤ 16.0 barg ≤ 232.0 psig
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure¹	≤ 16.0 bar ≤ 232.0 psi
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 – 70°C 34 – 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1] Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

	N2 produced in Nm ³ /h at 7.0 barg; 25°C in scfm at 102.0 psig; 77°F ²	Air / N2 ratio
99%	19.1 11.9	3.7
98%	27.2 17.0	2.9
97%	34.7 21.7	2.5
96%	42.3 26.5	2.3
95%	50.4 31.5	2.1

The composition of the product was determined by measurement of the residual oxygen content. The “N2 produced” value is the inert gas content. The pressure is the retentate pressure, namely N2 produced stream discharge pressure. The inlet air divided by “N2 produced” gives the air factor or air/N2 ratio. The lower the air factor, the lower the investment and operating costs.

CAUTION

Nitrogen gas is colorless, odorless and nonflammable. It is non-toxic but may cause asphyxiation by displacement of oxygen. Ensure proper ventilation. Oxygen is a colorless, odorless and oxidizing gas. It is non-toxic, but at high concentrations in the atmosphere it accelerates combustion and increases the risk of fire and explosion of combustible or flammable materials.

OPERATION

The proper operation of **SEPURAN® N2** systems is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99133946	SEPURAN® – N2Sys 150x1310 P2.0N 6 16AE

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

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Technical Information

SEPURAN® N₂ System

SEPURAN® – N2Sys 150x1310 P1.5F 6 25AS



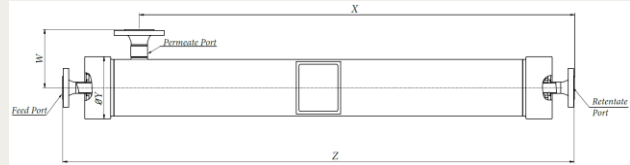
SEPURAN® N₂ system (sample picture)

Associated documents:

- User manual SEPURAN® N₂ system
- Technical drawing

SEPURAN® N₂ is a hollow fiber membrane gas separator that is used to remove oxygen from compressed air, resulting in N₂ purities between 95–99.5%. The polymer is specially tailored for nitrogen generation. Unlike other gas separation membranes, **SEPURAN® N₂** membranes are characterized by a very high flow capacity with a very good air factor, resulting in the optimization of compression and operating cost.

DIMENSIONS



Permeate port – W	197 mm 7.76 inch
Permeate port – X	1 321 mm 52.01 inch
Max diameter – Y	184 mm 7.24 inch
Total length – Z	1 572 mm 61.89 inch
Feed / Retentate connection	Flange ASME B16.5 – WN-RF – 300lbs – 1"
Permeate connection	Flange ASME B16.5 – WN-RF – 300lbs – 1½"
Weight	44.3 kg 97.7 lbs
Drawing number	EVK-Hsg 6N-1 1.5-1.0F 6 25AS-C-V01-B

For more specific dimensions of the system, please use the corresponding technical drawing.

SPECIFICATIONS

Design, manufacturing and testing acc. to	ASME
External material housing	SS 316 – 1.4404
External material cartridge tube	Aluminium
Operating pressure Feed- / Retentate side	≤ 25.0 barg ≤ 362.6 psig
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure ¹	≤ 25.0 bar ≤ 362.6 psi
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 – 70°C 34 – 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1]
	Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

	N ₂ produced in Nm ³ /h at 7.0 barg; 25°C in scfm at 102.0 psig; 77°F ²	Air / N ₂ ratio
99%	19.1 11.9	3.7
98%	27.2 17.0	2.9
97%	34.7 21.7	2.5
96%	42.3 26.5	2.3
95%	50.4 31.5	2.1

The composition of the product was determined by measurement of the residual oxygen content. The “N₂ produced” value is the inert gas content. The pressure is the retentate pressure, namely N₂ produced stream discharge pressure. The inlet air divided by “N₂ produced” gives the air factor or air/N₂ ratio. The lower the air factor, the lower the investment and operating costs.

CAUTION

Nitrogen gas is colorless, odorless and nonflammable. It is non-toxic but may cause asphyxiation by displacement of oxygen. Ensure proper ventilation. Oxygen is a colorless, odorless and oxidizing gas. It is non-toxic, but at high concentrations in the atmosphere it accelerates combustion and increases the risk of fire and explosion of combustible or flammable materials.

OPERATION

The proper operation of **SEPURAN® N₂** systems is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99142727	SEPURAN® – N2Sys 150x1310 P1.5F 6 25AS

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

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Technical Information

SEPURAN® N₂ System

SEPURAN® – N2Sys 150x1310 P1.5F 6 25EN



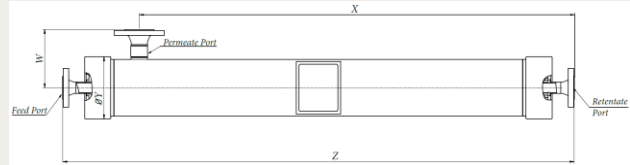
SEPURAN® N₂ system (sample picture)

Associated documents:

- User manual SEPURAN® N₂ system
- Technical drawing

SEPURAN® N₂ is a hollow fiber membrane gas separator that is used to remove oxygen from compressed air, resulting in N₂ purities between 95–99.5%. The polymer is specially tailored for nitrogen generation. Unlike other gas separation membranes, **SEPURAN® N₂** membranes are characterized by a very high flow capacity with a very good air factor, resulting in the optimization of compression and operating cost.

DIMENSIONS



Permeate port – W	173 mm 6.81 inch
Permeate port – X	1 299 mm 51.14 inch
Max diameter – Y	184 mm 7.24 inch
Total length – Z	1 528 mm 60.16 inch
Feed / Retentate connection	Flange DIN EN 1092–1 Type 11 – B1 – PN40 – DN25
Permeate connection	Flange DIN EN 1092–1 Type 11 – B1 – PN40 – DN40
Weight	42.8 kg 94.4 lbs
Drawing number	EVK–Hsg 6N–1 1.5–1.0F 6 25EN–C–V01–B

For more specific dimensions of the system, please use the corresponding technical drawing.

SPECIFICATIONS

Design, manufacturing and testing acc. to	EN
External material housing	SS 316 – 1.4404
External material cartridge tube	Aluminium
Operating pressure Feed- / Retentate side	≤ 25.0 barg ≤ 362.6 psig
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure ¹	≤ 25.0 bar ≤ 362.6 psi
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 – 70°C 34 – 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1]
	Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

	N ₂ produced in Nm ³ /h at 7.0 barg; 25°C in scfm at 102.0 psig; 77°F ²	Air / N ₂ ratio
99%	19.1 11.9	3.7
98%	27.2 17.0	2.9
97%	34.7 21.7	2.5
96%	42.3 26.5	2.3
95%	50.4 31.5	2.1

The composition of the product was determined by measurement of the residual oxygen content. The “N₂ produced” value is the inert gas content. The pressure is the retentate pressure, namely N₂ produced stream discharge pressure. The inlet air divided by “N₂ produced” gives the air factor or air/N₂ ratio. The lower the air factor, the lower the investment and operating costs.

CAUTION

Nitrogen gas is colorless, odorless and nonflammable. It is non-toxic but may cause asphyxiation by displacement of oxygen. Ensure proper ventilation. Oxygen is a colorless, odorless and oxidizing gas. It is non-toxic, but at high concentrations in the atmosphere it accelerates combustion and increases the risk of fire and explosion of combustible or flammable materials.

OPERATION

The proper operation of SEPURAN® N₂ systems is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99142729	SEPURAN® – N ₂ Sys 150x1310 P1.5F 6 25EN

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

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Technical Information

SEPURAN® N₂ System

SEPURAN® – N2Sys 150x1310 P2.0N 6 25CN



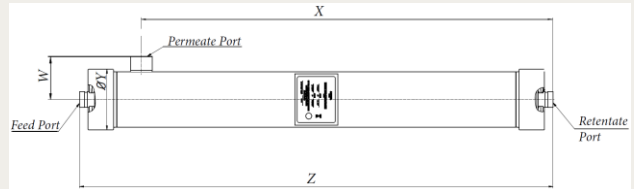
SEPURAN® N₂ system (sample picture)

Associated documents:

- User manual SEPURAN® N₂ system
- Technical drawing

SEPURAN® N₂ is a hollow fiber membrane gas separator that is used to remove oxygen from compressed air, resulting in N₂ purities between 95–99.5%. The polymer is specially tailored for nitrogen generation. Unlike other gas separation membranes, SEPURAN® N₂ membranes are characterized by a very high flow capacity with a very good air factor, resulting in the optimization of compression and operating cost.

DIMENSIONS



Permeate port – W	131 mm 5.16 inch
Permeate port – X	1 259 mm 49.57 inch
Max diameter – Y	184 mm 7.24 inch
Total length – Z	1 448 mm 57.01 inch
Feed / Retentate connection	NPT–Thread 1" and Victaulic 1½"
Permeate connection	NPT–Thread 2"
Weight	39.3 kg 86.6 lbs
Drawing number	EVK–Hsg 6N–1 2.0–1.0N 6 25CN–C–V01–A

For more specific dimensions of the system, please use the corresponding technical drawing.

SPECIFICATIONS

Design, manufacturing and testing acc. to	SELO
External material housing	SS 316 – 1.4404
External material cartridge tube	Aluminium
Operating pressure Feed- / Retentate side	≤ 25.0 barg ≤ 362.6 psig
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure¹	≤ 25.0 bar ≤ 362.6 psi
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 – 70°C 34 – 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1] Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

	N2 produced in Nm ³ /h at 7.0 barg; 25°C in scfm at 102.0 psig; 77°F ²	Air / N2 ratio
99%	19.1 11.9	3.7
98%	27.2 17.0	2.9
97%	34.7 21.7	2.5
96%	42.3 26.5	2.3
95%	50.4 31.5	2.1

The composition of the product was determined by measurement of the residual oxygen content. The “N2 produced” value is the inert gas content. The pressure is the retentate pressure, namely N2 produced stream discharge pressure. The inlet air divided by “N2 produced” gives the air factor or air/N2 ratio. The lower the air factor, the lower the investment and operating costs.

CAUTION

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OPERATION

The proper operation of **SEPURAN® N2** systems is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99122991	SEPURAN® – N2Sys 150x1310 P2.0N 6 25CN

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

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Technical Information

SEPURAN® N₂ System

SEPURAN® – N2Sys 150x1310 P2.0N 6 25AE



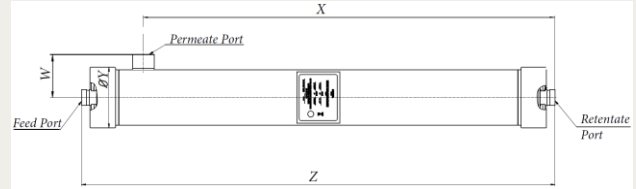
SEPURAN® N₂ system (sample picture)

Associated documents:

- User manual SEPURAN® N₂ system
- Technical drawing

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DIMENSIONS



Permeate port – W	131 mm 5.16 inch
Permeate port – X	1 259 mm 49.57 inch
Max diameter – Y	184 mm 7.24 inch
Total length – Z	1 448 mm 57.01 inch
Feed / Retentate connection	NPT–Thread 1" and Victaulic 1½"
Permeate connection	NPT–Thread 2"
Weight	39.3 kg 86.6 lbs
Drawing number	EVK–Hsg 6N–1 2.0–1.0N 6 25AE–C–V01–A

For more specific dimensions of the system, please use the corresponding technical drawing.

SPECIFICATIONS

Design, manufacturing and testing acc. to	EN / ASME / CRN
External material housing	SS 316 – 1.4404
External material cartridge tube	Aluminium
Operating pressure Feed- / Retentate side	≤ 25.0 barg ≤ 362.6 psig
Operating pressure Permeate side	≥ 0.0 barg ≥ 0.0 psig
Transmembrane pressure¹	≤ 25.0 bar ≤ 362.6 psi
Max. actual permeate flow rate	≤ 200 Am ³ /h ≤ 117.8 acfm
To be used with	Pre-treated pressurized air
Other Gases	Contact the supplier
Permitted temperature range	1 – 70°C 34 – 158°F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class [1:-:1]
	Condensation of water must be avoided

¹The specified transmembrane pressure (TMP) must not be exceeded under any circumstances.

CHARACTERISTIC PERFORMANCE DATA

	N2 produced in Nm ³ /h at 7.0 barg; 25°C in scfm at 102.0 psig; 77°F ²	Air / N2 ratio
99%	19.1 11.9	3.7
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96%	42.3 26.5	2.3
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The composition of the product was determined by measurement of the residual oxygen content. The “N2 produced” value is the inert gas content. The pressure is the retentate pressure, namely N2 produced stream discharge pressure. The inlet air divided by “N2 produced” gives the air factor or air/N2 ratio. The lower the air factor, the lower the investment and operating costs.

CAUTION

Nitrogen gas is colorless, odorless and nonflammable. It is non-toxic but may cause asphyxiation by displacement of oxygen. Ensure proper ventilation. Oxygen is a colorless, odorless and oxidizing gas. It is non-toxic, but at high concentrations in the atmosphere it accelerates combustion and increases the risk of fire and explosion of combustible or flammable materials.

OPERATION

The proper operation of **SEPURAN® N2** systems is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99111367	SEPURAN® – N2Sys 150x1310 P2.0N 6 25AE

² Norm = 0°C, 1 atm | 32°F, 1 atm;
Standard = 15.5°C, 1 atm | 60°F, 1 atm

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