

Technical Information

SEPURAN® N₂ Selective – 6 inch standard

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Technical Information

SEPURAN® N₂ Selective Cartridge

SEPURAN® – N₂S Cart 150x1310 A 25



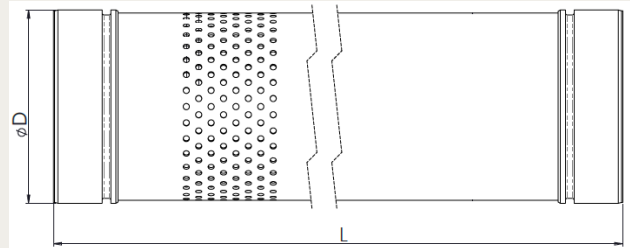
SEPURAN® N₂ Selective cartridge (sample picture)

Associated documents:

- User manual SEPURAN® N₂ Selective 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	≤ 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

	N2 produced in Nm ³ /h at 9.0 barg; 25°C in scfm at 131.0 psig; 77°F ²	Air / N2 ratio
99%	6.5 4.0	2.9
98%	9.0 5.6	2.4
97%	11.3 7.0	2.1
96%	13.7 8.5	2.0
95%	16.2 10.1	1.8

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 Selective** cartridges is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99131448	SEPURAN® – N2S 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 Selective System

SEPURAN® – N2SSys 150x1310 P1.5G 6 25EN



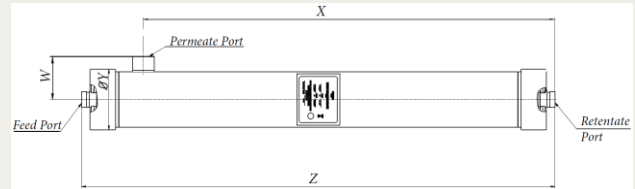
SEPURAN® N₂ Selective system (sample picture)

Associated documents:

- User manual SEPURAN® N₂ Selective 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	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	≤ 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 9.0 barg; 25°C in scfm at 131.0 psig; 77°F ²	Air / N ₂ ratio
99%	6.5 4.0	2.9
98%	9.0 5.6	2.4
97%	11.3 7.0	2.1
96%	13.7 8.5	2.0
95%	16.2 10.1	1.8

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 Selective** systems is described in the associated user manual.

PRODUCT CODE	PRODUCT NAME
99142761	SEPURAN® – N ₂ SSys 150x1310 P1.5G 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 Selective System

SEPURAN® – N2SSys 150x1310 P1.5G 6 25AS



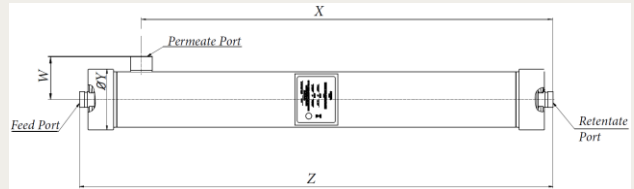
SEPURAN® N₂ Selective system (sample picture)

Associated documents:

- User manual SEPURAN® N₂ Selective 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	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	≤ 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

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CAUTION

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OPERATION

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

PRODUCT CODE	PRODUCT NAME
99142762	SEPURAN® – N2SSys 150x1310 P1.5G 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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SEPURAN® N₂ Selective System

SEPURAN® – N2SSys 150x1310 P1.5G 6 25CN



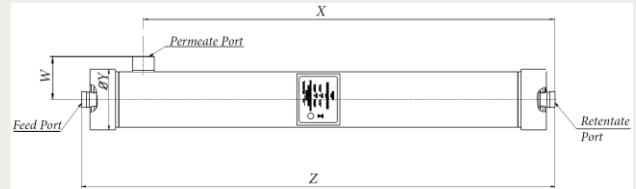
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Associated documents:

- User manual SEPURAN® N₂ Selective system
- Technical drawing

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DIMENSIONS



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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	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 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

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OPERATION

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

PRODUCT CODE	PRODUCT NAME
99142731	SEPURAN® – N2SSys 150x1310 P1.5G 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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SEPURAN® N₂ Selective System

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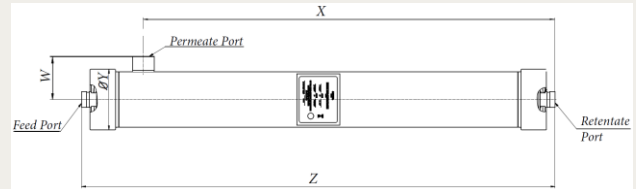
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DIMENSIONS



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

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OPERATION

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PRODUCT CODE	PRODUCT NAME
99131450	SEPURAN® – N2SSys 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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