

ST504

Aluminiumnitrogen membrane module

Minimum Outlet Flow Rate ⁽¹⁾



Inlet Pressure		Purity (Remaining Oxygen Content)									
		99.0% (1.0%)		98.0% (2.0%)		97.0% (3.0%)		96.0% (4.0%)		95.0% (5.0%)	
bar(g)	psi(g)	m3/hr	cfm	m3/hr	cfm	m3/hr	cfm	m3/hr	cfm	m3/hr	cfm
5.0	72.5	0.3	0.2	0.5	0.3	0.7	0.4	0.8	0.5	1.0	0.6
6.0	87.0	0.4	0.2	0.6	0.4	0.8	0.5	1.1	0.6	1.3	0.8
7.0	101.5	0.4	0.2	0.7	0.4	1.0	0.6	1.3	0.8	1.6	0.9
8.0	116.0	0.5	0.3	0.8	0.5	1.2	0.7	1.5	0.9	1.9	1.1
9.0	130.5	0.6	0.3	1.0	0.6	1.4	0.8	1.8	1.0	2.1	1.3
10.0	145.0	0.6	0.4	1.1	0.6	1.5	0.9	2.0	1.2	2.4	1.4
11.0	159.5	0.7	0.4	1.2	0.7	1.7	1.0	2.2	1.3	2.7	1.6
12.0	174.0	0.8	0.4	1.3	0.8	1.9	1.1	2.4	1.4	2.9	1.7
13.0	188.5	0.8	0.5	1.4	0.8	2.0	1.2	2.6	1.5	3.2	1.9

⁽¹⁾ Maximum outlet flow rate = 'Minimum outlet flow rate' + 30.0%

m³ reference to standard conditions, 20°C, 1013 mbar(a) and 0% relative water vapour pressure.

For performance figures at other purities and/or pressures, please contact Parker.

Temperature Correction Factors

°C	°F	99.0% (1.0%)	98.0% (2.0%)	97.0% (3.0%)	96.0% (4.0%)	95.0% (5.0%)
≤10.0	50.0	0.90	0.90	0.90	0.90	0.90
20.0	68.0	1.00	1.00	1.00	1.00	1.00
30.0	86.0	1.00	1.00	1.00	1.00	1.00
40.0	104.0	0.80	1.00	1.00	1.10	1.10
50.0	122.0	0.80	1.00	1.10	1.10	1.20

Product Image*



Operation Parameters

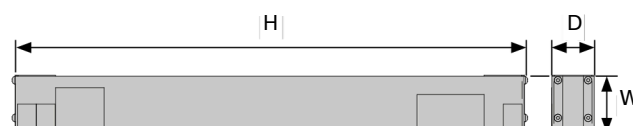
Minimum Inlet Air Quality	ISO 8573-1: 2010 Class 2.4.1	
Minimum Operating Pressure	4.0 bar(g)	58.0 psi(g)
Maximum Operating Pressure	13.0 bar(g)	188.5 psi(g)
Minimum Operating Temperature	5.0°C	41.0°F
Maximum Operating Temperature	45.0°C	113.0°F
Maximum Pressure Drop	0.3 bar(g)	4.3 psi(g)

Material & Connections

Material	Aluminium
Coating	None
Compressed Air Inlet	G ³ / ₈ "
Exhaust	G ³ / ₈ "
Nitrogen Outlet	G ³ / ₈ "

Weight & Dimensions

Weight	2.6 kg	5.7 lbs
Height	520 mm	20.5"
Width	80 mm	3.1"
Depth	63 mm	2.4"



*Image for representation purposes only. Please visit www.parker.com/membranegasseparation to download the engineering drawings and 3D model files, for an exact configuration.

NITROGEN MEMBRANE PART NUMBER CONFIGURATION

Configurator		S	T	5	0	4	-				-			-	A	-	0	0	A		
Model	Prefix	Purity		Prefix		Pressure		Prefix		Housing	Suf fix										
ST504	ST504	95.0%	950	5.0 bar(g)	05	ST504	A														
		96.0%	960	6.0 bar(g)	06																
		97.0%	970	7.0 bar(g)	07																
		98.0%	980	8.0 bar(g)	08																
		99.0%	990	9.0 bar(g)	09																
				10.0 bar(g)	10																
				11.0 bar(g)	11																
				12.0 bar(g)	12																
				13.0 bar(g)	13																

Part number configuration should be based on end user requirement to meet their application/process needs.

Example:

	Flow Rate			Purity			Pressure			Housing Material			Suf fix					
Requirement:	1.2m³/hr			@ 95.0%			7.0 bar(g) inlet			Aluminium			00A					
Selection:	1.7m³/hr			950			07			A								
Part Number:	S	T	5	0	4	-	9	5	0	-	0	7	-	A	-	0	0	A



Avilo Stikstof en Persluchtssystemen B.V.

part of interfilter group

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www.avilo.nl

Reference: TSS-DT1506_EN_00

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