

ST304

Aluminium nitrogen membrane module



Minimum Outlet Flow Rate

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	0.2	0.1	0.3	0.2	0.5	0.3	0.6	0.4	0.8	0.5
6.0	87.0	0.3	0.1	0.5	0.3	0.6	0.4	0.8	0.5	1.0	0.6
7.0	101.5	0.3	0.2	0.5	0.3	0.7	0.4	0.9	0.5	1.1	0.7
8.0	116.0	0.3	0.2	0.6	0.4	0.8	0.5	1.1	0.6	1.3	0.8
9.0	130.5	0.4	0.2	0.7	0.4	1.0	0.6	1.2	0.7	1.5	0.9
10.0	145.0	0.4	0.2	0.8	0.4	1.0	0.6	1.3	0.8	1.6	1.0
11.0	159.5	0.4	0.3	0.8	0.5	1.2	0.7	1.5	0.9	1.8	1.1
12.0	174.0	0.5	0.3	0.9	0.5	1.3	0.7	1.6	1.0	2.0	1.2

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 Avilo.

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	12.0 bar(g)	174.0 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	2.3 kg	5.0 lbs
Height	386 mm	15.1"
Width	80 mm	3.1"
Depth	63 mm	2.4"



NITROGEN MEMBRANE PART NUMBER CONFIGURATION

Configurator							
Model	Prefix	Purity (1)	Prefix	Pressure (2)	Prefix	Housing (3)	Suf fix
ST304	ST304	95.0%	950	5.0 bar(g)	05	ST304	A
DT304	DT304	96.0%	960	6.0 bar(g)	06	DT304	A
TT304	TT304	97.0%	970	7.0 bar(g)	07	TT304	A
ST504	ST504	98.0%	980	8.0 bar(g)	08	ST504	A
ST604	ST604	99.0%	990	9.0 bar(g)	09	ST604	A
DT604	DT604	99.5%	995	10.0 bar(g)	10	DT604	A
TT604	TT604			11.0 bar(g)	11	TT604	A
SA604	SA604			12.0 bar(g)	12	SA604	A
ST606	ST606			13.0 bar(g)	13	ST606	A
TT606	TT606					TT606	A
ST608	ST608					ST608	A
SA708	SA708					SA708	A
ST1506	ST1506					ST1506	A
DT1506	DT1506					DT1506	A
ST1508	ST1508					ST1508	A
DT1508*	DT1508					ST1508SS	S
SA1508	SA1508					DT1508*	A
ST6010	ST6010					DT1508SS	S
SA15015	SA15015					SA1508	A
NFM-100	NFM-100					SA1508SS	S
ST15020	ST15020					ST6010	A
SA15020	SA15020					SA15015	A
						NFM-100	S
						ST15020	A
						SA15020	A

(1) Check product information page for available purities.

(2) Check product information page for maximum operating pressure

(3) Check product information page for correct housing material.

*For DT1508 9-13 bar (130.5-189 psig) the last letter in the part number is C not A.

The inlet pressure and purity specified within the part number configurator is used as a point of reference for the factory to carry out a full performance test prior to shipment. The membrane module still has the capability to operate at alternative inlet pressure and/or purities within its performance range.

Example:

	Flow Rate	Purity	Pressure	Housing Material	Suf fix
Requirement:	100m³/hr	@ 95.0%	7.0 bar(g) inlet	Aluminium	00A
Selection:	111.1m³/hr = SA15015	950	07	A	
Part Number:	S A 1 5 0 1 5 - 9 5 0 - 0 7 - A - 0 0 A				



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