SA1508

Aluminium nitrogen membrane module

Nominal Outlet Flow Rate

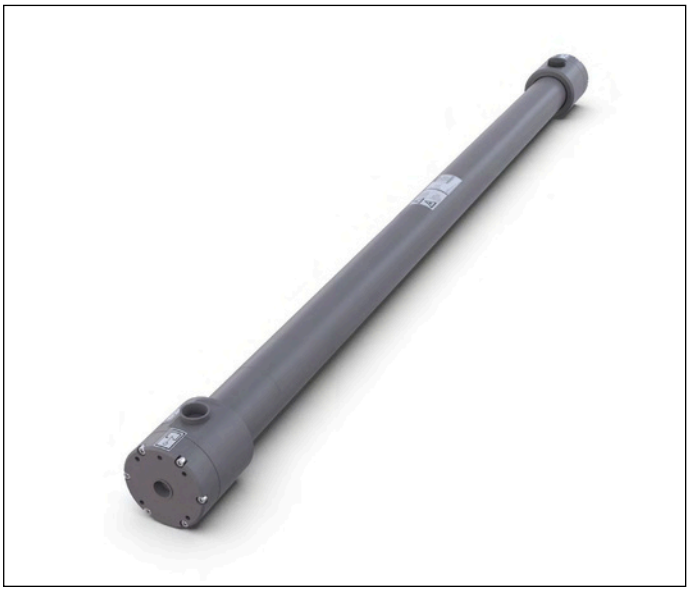
Inlet Pressure		Purity (Remaining Oxygen Content)											
		99.5% (0.5%)		99.0% (1.0%)		98.0% (2.0%)		97.0% (3.0%)		96.0% (4.0%)		95.0% (5.0%)	
bar(g)	psi(g)	m3/hr	cfm	m3/hr	cfm	m3/hr	cfm	m3/hr	cfm	m3/hr	cfm	m3/hr	cfm
4.0	58.0	2.8	1.6	4.0	2.4	5.7	3.4	7.1	4.2	9.5	5.6	10.9	6.4
5.0	72.5	3.7	2.2	5.3	3.1	7.9	4.6	10.2	6.0	12.8	7.5	15.2	8.9
6.0	87.0	4.7	2.8	7.0	4.1	10.2	6.0	13.0	7.7	15.7	9.2	20.5	12.1
7.0	101.5	6.1	3.6	8.5	5.0	12.3	7.2	16.5	9.7	19.5	11.5	24.3	14.3
8.0	116.0	6.9	4.1	9.7	5.7	14.3	8.4	19.2	11.3	23.3	13.7	28.1	16.5
9.0	130.5	7.8	4.6	11.1	6.5	17.0	10.0	21.2	12.5	27.0	15.9	32.2	19.0
10.0	145.0	8.6	5.1	12.6	7.4	18.5	10.9	23.3	13.7	30.2	17.8	37.4	22.0
11.0	159.5	9.6	5.7	14.2	8.4	20.7	12.2	25.4	14.9	33.0	19.4	41.0	24.1
12.0	174.0	10.5	6.2	15.2	8.9	22.9	13.5	28.5	16.8	36.6	21.5	45.6	26.8
13.0	188.5	11.3	6.7	16.3	9.6	24.9	14.7	31.6	18.6	39.5	23.2	48.8	28.7

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	99.5% (0.5%)	99.0% (1.0%)	98.0% (2.0%)	97.0% (3.0%)	96.0% (4.0%)	95.0% (5.0%)
5.0	41.0	-	-	0.90	0.90	0.90	0.90
≤10.0	50.0	-	-	0.95	0.95	0.95	0.95
20.0	68.0	1.00	1.00	1.00	1.00	1.00	1.00
30.0	86.0	1.00	1.03	1.05	1.05	1.05	1.05
40.0	104.0	1.0	1.05	1.10	1.10	1.10	1.10
50.0	122.0	1.0	1.05	1.10	1.10	1.15	1.15

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)	189.0 psi(g)
Minimum Operating Temperature	5.0˚C	41.0˚F
Maximum Operating Temperature	50.0˚C	122.0˚F
Maximum Pressure Drop	0.2 bar(g)	2.9 psi(g)

Material & Connections

Material	Aluminium
Coating	Powder Coated (Quartz Grey)
Compressed Air Inlet	G¾"
Exhaust	G1"
Nitrogen Outlet	G¾"

Weight & Dimensions

Weight	6.8 kg	15.0 lbs
Height	1655 mm	65.2"
Diameter	144 mm	5.7"

NITROGEN MEMBRANE PART NUMBER CONFIGURATION

Configurator								-				-			-		-	0	0	A*

Model	Prefix
ST304	ST304
DT304	DT304
TT304	TT304
ST504	ST504
ST604	ST604
DT604	DT604
TT604	TT604
SA604	SA604
ST606	ST606
TT606	TT606
ST608	ST608
SA708	SA708
ST1506	ST1506
DT1506	DT1506
ST1508	ST1508
DT1508*	DT1508
SA1508	SA1508
ST6010	ST6010
SA15015	SA15015
NFM-100	NFM-100
ST15020	ST15020
SA15020	SA15020

Purity (1)	Prefix
95.0%	950
96.0%	960
97.0%	970
98.0%	980
99.0%	990
99.5%	995

Pressure (2)	Prefix
5.0 bar(g)	05
6.0 bar(g)	06
7.0 bar(g)	07
8.0 bar(g)	08
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

Housing (3)	Suf fix
ST304	A
DT304	A
TT304	A
ST504	A
ST604	A
DT604	A
TT604	A
SA604	A
ST606	A
TT606	A
ST608	A
SA708	A
ST1506	A
DT1506	A
ST1508	A
ST1508SS	S
DT1508*	A
DT1508SS	S
SA1508	A
SA1508SS	S
ST6010	A
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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