

# SA708

## Aluminiumnitrogen membrane module



### Nominal Outlet Flow Rate <sup>(1)</sup>

| 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   | 0.9                               | 0.5 | 1.4          | 0.8 | 2.2          | 1.3 | 2.9          | 1.7 | 3.6          | 2.1  | 4.4          | 2.6  |
| 5.0            | 72.5   | 1.3                               | 0.8 | 2.1          | 1.2 | 3.1          | 1.8 | 4.1          | 2.4 | 5.1          | 3.0  | 6.2          | 3.6  |
| 6.0            | 87.0   | 1.7                               | 1.0 | 2.7          | 1.6 | 4.0          | 2.3 | 5.2          | 3.0 | 6.6          | 3.9  | 7.9          | 4.7  |
| 7.0            | 101.5  | 2.1                               | 1.2 | 3.3          | 1.9 | 4.9          | 2.9 | 6.5          | 3.8 | 8.1          | 4.8  | 9.8          | 5.8  |
| 8.0            | 116.0  | 2.5                               | 1.5 | 3.9          | 2.3 | 5.8          | 3.4 | 7.7          | 4.5 | 9.7          | 5.7  | 11.6         | 6.8  |
| 9.0            | 130.5  | 2.8                               | 1.7 | 4.5          | 2.6 | 6.8          | 4.0 | 9.0          | 5.3 | 11.3         | 6.6  | 13.5         | 7.9  |
| 10.0           | 145.0  | 3.1                               | 1.8 | 4.9          | 2.9 | 7.6          | 4.5 | 10.3         | 6.1 | 12.9         | 7.6  | 15.4         | 9.1  |
| 11.0           | 159.5  | 3.4                               | 2.0 | 5.5          | 3.2 | 8.5          | 5.0 | 11.5         | 6.8 | 14.5         | 8.5  | 17.3         | 10.2 |
| 12.0           | 174.0  | 3.7                               | 2.2 | 6.0          | 3.5 | 9.3          | 5.5 | 12.5         | 7.4 | 15.9         | 9.4  | 19.1         | 11.2 |
| 13.0           | 188.5  | 3.9                               | 2.3 | 6.5          | 3.8 | 10.1         | 5.9 | 13.6         | 8.0 | 17.1         | 10.1 | 20.9         | 12.3 |

<sup>(1)</sup> Maximum Outlet Flow Rate = 'Nominal Outlet Flow Rate' + 15%  
m<sup>3</sup> 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    | 99.5% (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

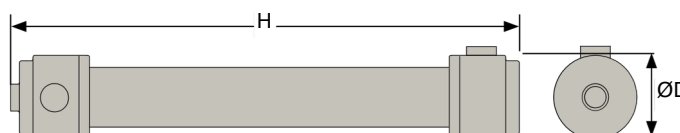
|                               |                              |              |
|-------------------------------|------------------------------|--------------|
| Minimum Inlet Air Quality     | ISO 8573-1: 2010 Class 2.4.1 |              |
| Minimum Operating Pressure    | 4.0 bar(g)                   | 58.0 psi(g)  |
| Maximum Operating Pressure    | 13.0 bar(g)                  | 188.5 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 | G <sup>3</sup> / <sub>4</sub> " |
| Exhaust              | G1"                             |
| Nitrogen Outlet      | G <sup>3</sup> / <sub>4</sub> " |

### Weight & Dimensions

|          |        |          |
|----------|--------|----------|
| Weight   | 5.5 kg | 12.1 lbs |
| Height   | 782 mm | 30.7"    |
| Diameter | 114 mm | 4.4"     |



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

# NITROGEN MEMBRANE PART NUMBER CONFIGURATION

| Configurator |   |        |   |        |   |  |  |        |   |  |  |             |   |   |   |        |   |  |  |         |  |  |  |         |  |  |  |  |
|--------------|---|--------|---|--------|---|--|--|--------|---|--|--|-------------|---|---|---|--------|---|--|--|---------|--|--|--|---------|--|--|--|--|
| S            | A | 7      | 0 | 8      | - |  |  |        | - |  |  | -           | A | - | 0 | 0      | A |  |  |         |  |  |  |         |  |  |  |  |
| Model        |   | Prefix |   | Purity |   |  |  | Prefix |   |  |  | Pressure    |   |   |   | Prefix |   |  |  | Housing |  |  |  | Suf fix |  |  |  |  |
| SA708        |   | SA708  |   | 95.0%  |   |  |  | 950    |   |  |  | 4.0 bar(g)  |   |   |   | 04     |   |  |  | SA708   |  |  |  | A       |  |  |  |  |
|              |   |        |   | 96.0%  |   |  |  | 960    |   |  |  | 5.0 bar(g)  |   |   |   | 05     |   |  |  |         |  |  |  |         |  |  |  |  |
|              |   |        |   | 97.0%  |   |  |  | 970    |   |  |  | 6.0 bar(g)  |   |   |   | 06     |   |  |  |         |  |  |  |         |  |  |  |  |
|              |   |        |   | 98.0%  |   |  |  | 980    |   |  |  | 7.0 bar(g)  |   |   |   | 07     |   |  |  |         |  |  |  |         |  |  |  |  |
|              |   |        |   | 99.0%  |   |  |  | 990    |   |  |  | 8.0 bar(g)  |   |   |   | 08     |   |  |  |         |  |  |  |         |  |  |  |  |
|              |   |        |   | 99.5%  |   |  |  | 995    |   |  |  | 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:                                                                                                                                                                     | 8.5m³/hr  |   |   | @ 95.0% |   |   | 7.0 bar(g) inlet |   |   | Aluminium        |   |   | 00A     |   |   |   |   |   |  |  |  |
| Selection:                                                                                                                                                                       | 9.8m³/hr  |   |   | 950     |   |   | 07               |   |   | A                |   |   |         |   |   |   |   |   |  |  |  |
| <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |           |   |   |         |   |   |                  |   |   |                  |   |   |         |   |   |   |   |   |  |  |  |
| Part Number:                                                                                                                                                                     | S         | A | 7 | 0       | 8 | - | 9                | 5 | 0 | -                | 0 | 7 | -       | A | - | 0 | 0 | A |  |  |  |



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Reference: TSS-DT1506\_EN\_00

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