

# DT1508

## Aluminiumnitrogenmembrane module

### Minimum 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  |
| 9.0            | 130.5  | 9.8                               | 5.8 | 15.4         | 9.1  | 26.6         | 15.7 | 36.4         | 21.4 | 46.2         | 27.2 | 56.0         | 33.0 |
| 10.0           | 145.0  | 11.2                              | 6.6 | 17.6         | 10.4 | 30.4         | 17.9 | 41.6         | 24.5 | 52.8         | 31.1 | 64.0         | 37.7 |
| 11.0           | 159.5  | 12.6                              | 7.4 | 19.8         | 11.7 | 34.2         | 20.1 | 46.8         | 27.5 | 59.4         | 35.0 | 72.0         | 42.4 |
| 12.0           | 174.0  | 14.0                              | 8.2 | 22.0         | 12.9 | 38.0         | 22.4 | 52.0         | 30.6 | 66.0         | 38.8 | 80.0         | 47.1 |
| 13.0           | 188.5  | 14.7                              | 8.7 | 23.1         | 13.6 | 39.9         | 23.5 | 54.6         | 32.1 | 69.3         | 40.8 | 84.0         | 49.4 |

<sup>(1)</sup> Maximum outlet flow rate = 'Minimum outlet flow rate' + 30.0%  
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%) |
|-------|-------|--------------|--------------|--------------|--------------|--------------|--------------|
| ≤10.0 | 50.0  | 0.90         | 0.90         | 0.90         | 0.90         | 0.90         | 0.90         |
| 20.0  | 68.0  | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         |
| 30.0  | 86.0  | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         |
| 40.0  | 104.0 | 0.60         | 0.80         | 1.00         | 1.00         | 1.10         | 1.10         |
| 50.0  | 122.0 | 0.60         | 0.80         | 1.00         | 1.10         | 1.10         | 1.20         |

### Product Image\*



### Operation Parameters

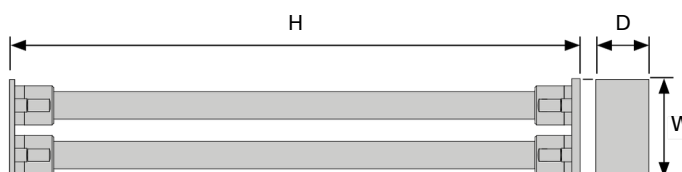
|                               |                              |              |
|-------------------------------|------------------------------|--------------|
| Minimum Inlet Air Quality     | ISO 8573-1: 2010 Class 2.4.1 |              |
| Minimum Operating Pressure    | 9.0 bar(g)                   | 130.5 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         | 0.8 bar(g)                   | 11.6 psi(g)  |

### Material & Connections

|                      |                                 |
|----------------------|---------------------------------|
| Material             | Aluminium                       |
| Coating              | None                            |
| Compressed Air Inlet | G <sup>3</sup> / <sub>4</sub> " |
| Exhaust              | G1"                             |
| Nitrogen Outlet      | G <sup>3</sup> / <sub>4</sub> " |

### Weight & Dimensions

|        |         |          |
|--------|---------|----------|
| Weight | 16.0 kg | 35.3 lbs |
| Height | 1705 mm | 67.1"    |
| Width  | 296 mm  | 11.6"    |
| Depth  | 201 mm  | 7.9"     |



\*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 |   |        |   |        |   |        |  |             |  |        |  |         |   |         |   |   |   |   |
|--------------|---|--------|---|--------|---|--------|--|-------------|--|--------|--|---------|---|---------|---|---|---|---|
| D            | T | 1      | 5 | 0      | 8 | -      |  |             |  | -      |  |         | - | A       | - | 0 | 0 | C |
| Model        |   | Prefix |   | Purity |   | Prefix |  | Pressure    |  | Prefix |  | Housing |   | Suf fix |   |   |   |   |
| DT1508       |   | DT1508 |   | 95.0%  |   | 950    |  | 9.0 bar(g)  |  | 09     |  | DT1508  |   | C       |   |   |   |   |
|              |   |        |   | 96.0%  |   | 960    |  | 10.0 bar(g) |  | 10     |  |         |   |         |   |   |   |   |
|              |   |        |   | 97.0%  |   | 970    |  | 11.0 bar(g) |  | 11     |  |         |   |         |   |   |   |   |
|              |   |        |   | 98.0%  |   | 980    |  | 12.0 bar(g) |  | 12     |  |         |   |         |   |   |   |   |
|              |   |        |   | 99.0%  |   | 990    |  | 13.0 bar(g) |  | 13     |  |         |   |         |   |   |   |   |
|              |   |        |   | 99.5%  |   | 995    |  |             |  |        |  |         |   |         |   |   |   |   |

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:                                                                                                                         | 51.5m³/hr |   | @ 95.0% |   | 9.0 bar(g) inlet |   | Aluminium        |   | 00C     |   |   |   |   |   |   |   |   |   |   |  |
| Selection:                                                                                                                           | 56.0m³/hr |   | 950     |   | 09               |   | 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> |           |   |         |   |                  |   |                  |   |         |   |   |   |   |   |   |   |   |   |   |  |
| Part Number:                                                                                                                         | D         | T | 1       | 5 | 0                | 8 | -                | 9 | 5       | 0 | - | 0 | 9 | - | A | - | 0 | 0 | A |  |



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Reference: TSS-DT1506\_EN\_00

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