

# Air Quality Limited - Safe-Air Tester Results

|                                |                                          |                                             |                                             |                                                 |
|--------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------------|
| Test Date:                     |                                          |                                             | Test Rig No.                                |                                                 |
|                                |                                          |                                             | Certificate No.                             |                                                 |
| Test Category:                 | <input type="checkbox"/> Airline <40 Bar | <input type="checkbox"/> <200 Bar Cylinders | <input type="checkbox"/> >200 Bar Cylinders | <input type="checkbox"/> HP Charging Compressor |
| Name and Address:              |                                          |                                             |                                             |                                                 |
| Test Location (if applicable): |                                          |                                             |                                             |                                                 |

| Test                                              | Reading           | Result      | BS EN12021 Requirements / Notes                                                                                                                                                  |
|---------------------------------------------------|-------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ① Ambient Temperature                             | °C                |             |                                                                                                                                                                                  |
| ② Test Point Volume*                              | L/min             |             | Suitable for RPD                                                                                                                                                                 |
| ③a Test Pressure*                                 | BAR               |             | Suitable for RPD                                                                                                                                                                 |
| ③b Cylinder Pressure                              | BAR               |             | Cylinder contents gauge                                                                                                                                                          |
| ④ Odour                                           |                   |             |                                                                                                                                                                                  |
| ⑤ Oxygen (O <sub>2</sub> )                        | %                 | Pass / Fail | 20-22% by volume                                                                                                                                                                 |
| ⑥ Carbon Monoxide (CO)                            | ppm               | Pass / Fail | 5 ppm (5 ml/m <sup>3</sup> ) max                                                                                                                                                 |
| ⑦ Carbon Dioxide (CO <sub>2</sub> )               | ppm               |             | 500 ppm (500 ml/m <sup>3</sup> ) max                                                                                                                                             |
| ⑧ Oil Mist                                        |                   |             | Less than 0.5 mg/m <sup>3</sup> max                                                                                                                                              |
| ⑨ Water Vapour (H <sub>2</sub> O)**               | mg/m <sup>3</sup> |             | <b>HP Cylinders</b><br>HP Cylinders <200 Bar 50mg/m <sup>3</sup> max<br>HP Cylinders >200 Bar 35mg/m <sup>3</sup> max<br>HP Charging Compressor 25mg/m <sup>3</sup> max          |
| 9a Pressure Dewpoint<br>(refer to graph overleaf) | °C                |             | <b>Airline &lt;40 Bar</b><br>Pressure dewpoint to be 5°C below likely lowest ambient temperature. Where temperature is not known then pressure dewpoint should not exceed -11°C. |

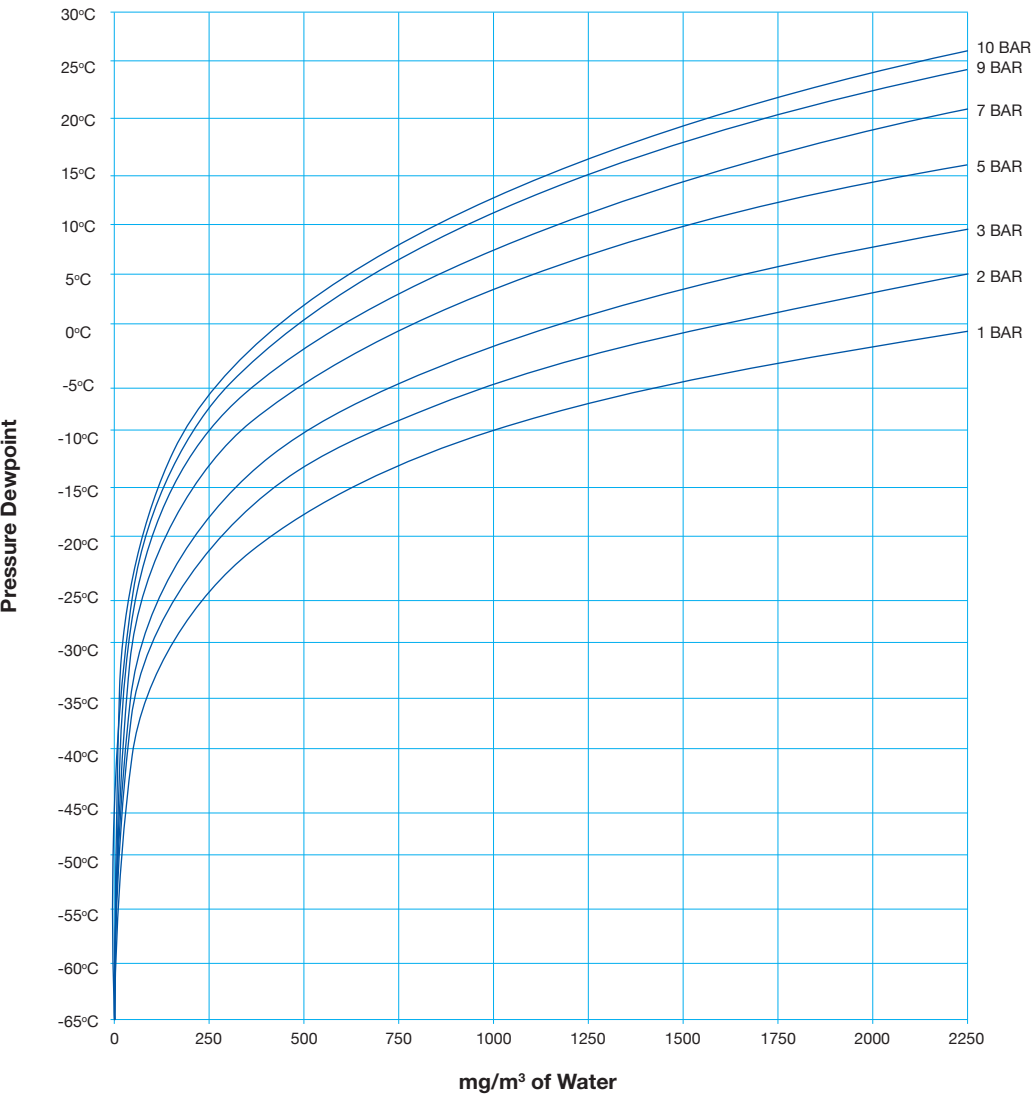
\* Airline only – if NA entered then certificate covers air quality only.

\*\* For tests conducted on the high range 50-2000mg/m<sup>3</sup> instrument setting enter the tube result multiplied by 10.

|                |                                                             |               |  |
|----------------|-------------------------------------------------------------|---------------|--|
| OVERALL RESULT | Pass <input type="checkbox"/> Fail <input type="checkbox"/> | NEXT TEST DUE |  |
|----------------|-------------------------------------------------------------|---------------|--|

|         |                                                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signed: | <b>Air Quality Limited</b><br>1 The Courtyard, Dunnings Lane, Rochester, Kent. ME1 1YB<br><br>Tel: 01634 832895    Mobile: 07887 696634<br>e-mail: info@airq.co.uk |
| Name:   |                                                                                                                                                                    |
|         |                                                                                                                                                                    |

# Pressure Dewpoint Graph Airline Systems



To establish pressure dewpoint take the point where tube reading in mg/m³ intersects system pressure and read off pressure dewpoint from vertical scale.

**NOTE:** Pressure dewpoint is the temperature at which free water is likely to occur at system pressure. Therefore the minimum operating temperature should be 5°C above the pressure dewpoint obtained.