



## IUTA certificate

### Air cleaner tests with NaCl particles in different size ranges

**Customer** Rensair Limited (originally commissioned by AirLabs Limited)  
**Appliance** AirBubbl  
**Certificate number** UN2-200427-T5599900-060A  
**Report number** UN2-200427-T5599900-060A

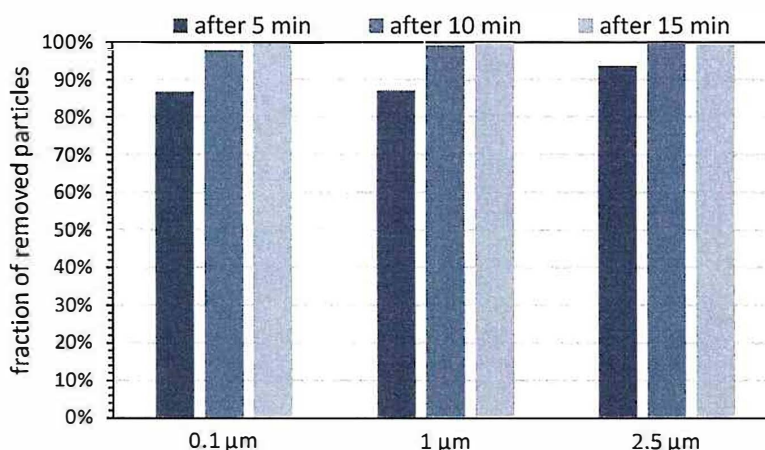
#### Test parameters

**Test chamber** 1 m<sup>3</sup> (1.00 m × 1.00 m × 1.00 m, acrylic glass) Sodium  
**Test aerosol** chloride (NaCl) particles  
**Measurement instruments** SMPS (DMA Model TSI 3080/3081, CPC Model TSI 3787),  
 FMPS (Model TSI 3091), APS (Model TSI 3321)

#### Test results

*Clean Air Delivery Rate (CADR) of the AirBubbl for different particle fractions*

|             | Particles with 0.1 µm diameter                | Mass of particles <2.5 µm (PM <sub>2.5</sub> ) |
|-------------|---|--|
| <b>CADR</b> | 27 m <sup>3</sup> /h (± <1 m <sup>3</sup> /h) | 27 m <sup>3</sup> /h (± 3 m <sup>3</sup> /h)   |



*Fraction of particles with different sizes removed by the AirBubbl  
in a 1 m<sup>3</sup> chamber after defined periods of operation*

Duisburg, 9 July 2020

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Managing Director

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Head of Air Quality & Filtration

## IUTA certificate

### Air cleaner tests with NO<sub>2</sub>

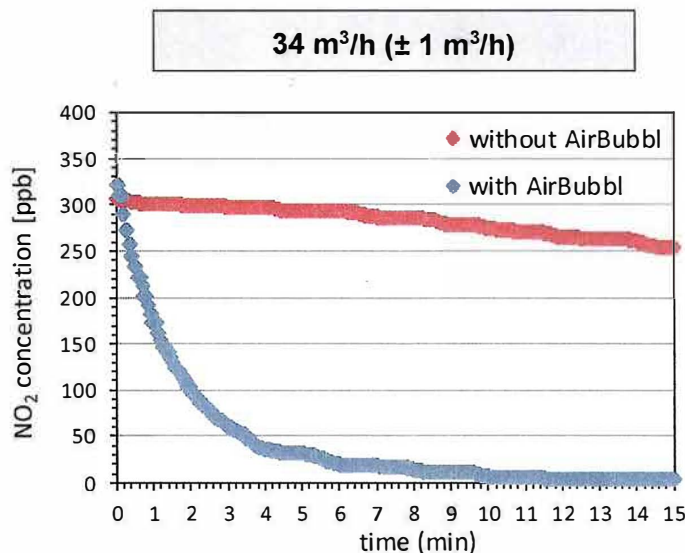
**Customer** Rensair Limited (originally commissioned by AirLabs Limited)  
**Appliance** AirBubbl  
**Certificate number** UN2-210614-T5599900-095C  
**Report number** UN2-210614-T5599900-095C

#### Test parameters

**Test chamber** 1 m<sup>3</sup> (1.00 m × 1.00 m × 1.00 m, acrylic glass) NO<sub>2</sub>  
**Test gas** (300 ppb initial concentration)  
**Measurement instruments** NO<sub>2</sub> monitor (Environnement AC32M)

#### Test results

*Clean Air Delivery Rate (CADR) of the AirBubbl for NO<sub>2</sub>*



*Decay curves for NO<sub>2</sub> in 1 m<sup>3</sup> without and with operation of the AirBubbl*

Duisburg, 13 September 2021

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Managing Director

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Head of Air Quality & Filtration

## IUTA certificate

### Air cleaner tests with ozone

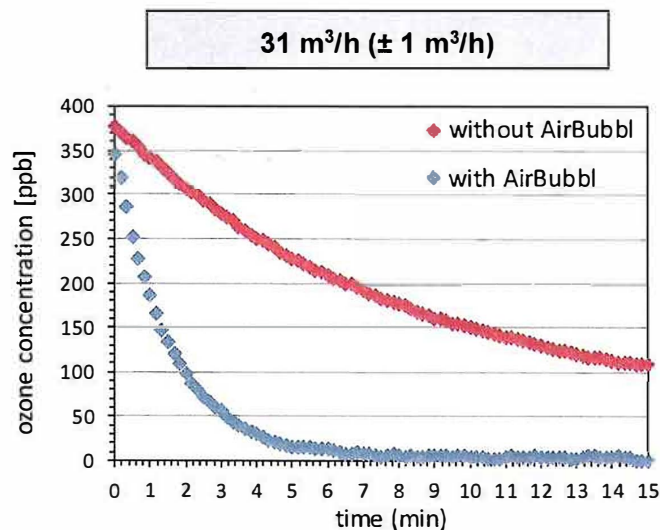
**Customer** Rensair Limited (originally commissioned by AirLabs Limited)  
**Appliance** AirBubbl  
**Certificate number** UN2-210614-T5599900-095B  
**Report number** UN2-210614-T5599900-095B

#### Test parameters

**Test chamber** 1 m<sup>3</sup> (1.00 m × 1.00 m × 1.00 m, acrylic glass) ozone (350  
**Test gas** ppb initial concentration)  
**Measurement instruments** ozone monitor (Envilyse, 2B Technologies 106-L)

#### Test results

*Clean Air Delivery Rate (CADR) of the AirBubbl for ozone*



*Decay curves for ozone in 1 m<sup>3</sup> without and with operation of the AirBubbl*

Duisburg, 15 July 2021

\_\_\_\_\_  
Managing Director

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Head of Air Quality & Filtration

## IUTA certificate

### Air cleaner tests with NaCl particles in different size ranges

**Customer** Rensair Limited (originally commissioned by AirLabs Limited)  
**Appliance** AirBubbl  
**Certificate number** UN2-210614-T5599900-095A  
**Report number** UN2-210614-T5599900-095A

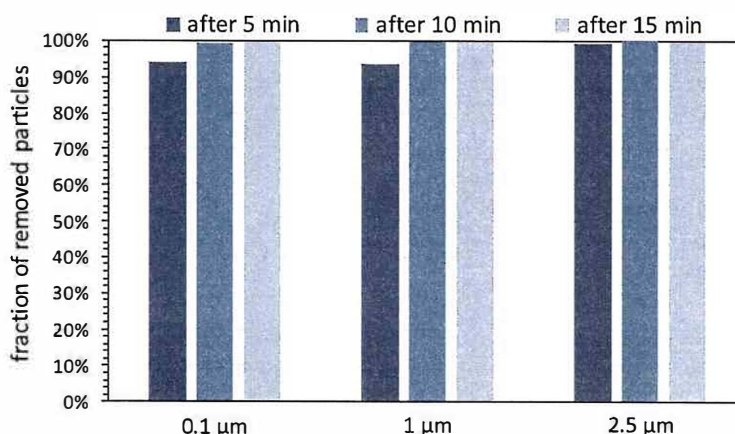
#### Test parameters

**Test chamber** 1 m<sup>3</sup> (1.00 m × 1.00 m × 1.00 m, acrylic glass)  
**Test aerosol** Sodium chloride (NaCl) particles  
**Measurement instruments** SMPS (DMA Model TSI 3080/3081, CPC Model TSI 3786),  
FMPS (Model TSI 3091), APS (Model TSI 3321)

#### Test results

*Clean Air Delivery Rate (CADR) of the AirBubbl for different particle fractions*

|             | Particles with 0.1 µm diameter                | Mass of particles <2.5 µm (PM <sub>2.5</sub> ) |
|-------------|---|--|
| <b>CADR</b> | 34 m <sup>3</sup> /h (± <1 m <sup>3</sup> /h) | 38 m <sup>3</sup> /h (± 2 m <sup>3</sup> /h)   |



*Fraction of particles with different sizes removed by the AirBubbl  
in a 1 m<sup>3</sup> chamber after defined periods of operation*

Duisburg, 12 July 2021

Managing Director

Head of Air Quality & Filtration