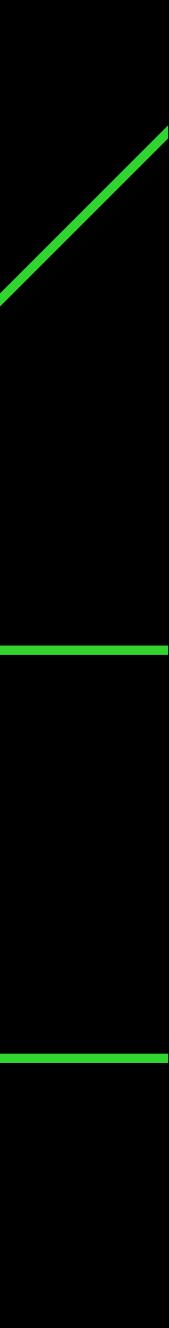


ENVIRONMENTAL TESTING LABORATORY of Łukasiewicz – Institute of Aviation



ENVIRONMENTAL TESTING LABORATORY of Łukasiewicz – Institute of Aviation

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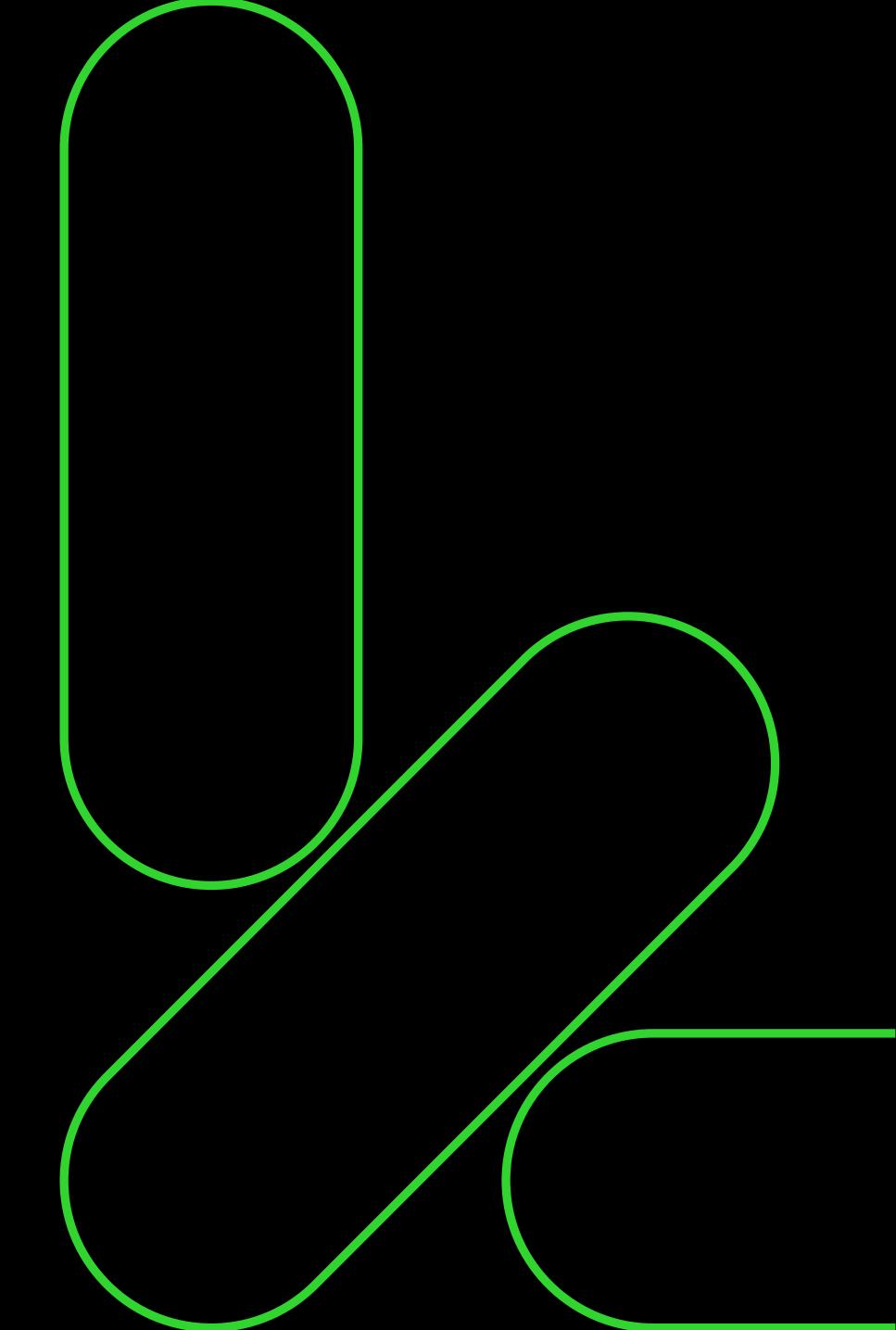
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ENVIRONMENTAL TESTING LABORATORY

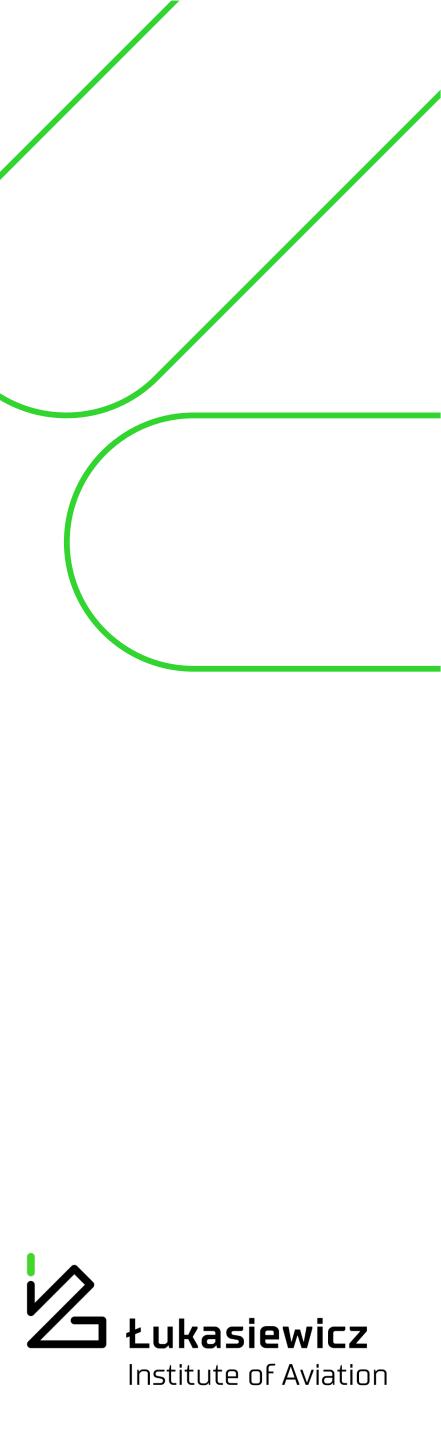


- The Laboratory is authorized by Polish Centre for Accreditation under certificate No. AB 132 since October 1997, in compliance with the requirements of standard PN-EN ISO/IEC 17025:2005.
- The scope of this certificate covers tests of resistance to mechanical hazards, climate stresses and functional inspection of products.



Capabilities:

- Random and sinusoidal vibrations;
- Repeated mechanical shocks;
- Combined vibration and temperature/humidity;
- Vibrations in clean atmosphere (using movable clean room);
- Resistance to high and low temperatures;
- Cyclic temperature changes;
- Resistance to temperature and atmospheric pressure changes;
- High humidity resistance;
- Frost and moisture resistance;
- Dust and sand resistance;
- Corrosion resistance;
- Water (rain, spray, splash) resistance;
- Sunlight resistance.



Shaker IMV i250/SA4M-CE with Medallion II controller

Frequency range: 5 – 2500 Hz;

Max. Amplitude of displacement: 50 mm;

Max. force: 40 kN;

Max. acceleration:

- for sinusoidal vibrations 500 m/s²,
- for random vibrations (rms) 140 m/s²,
- for shocks 800 m/s^2 ;

Additional equipment:

- slight table, dimensions: 750 x 750 mm,
- head-expander, dimensions: 700 x 700 mm,
- head-expander, diameter: 610 mm.







Movable temperature/humidity Test chamber CLIMATS 1200 H 70/5 with Spirale 3 controller

Dimensions of the test section:

1000 x 1100 x 1100 mm (1200 l);

Temperature range: -70°C ÷ +180°C;

Temperature variation rate: 5°C/min;

Humidity range: 20% ÷ 95%.











Climatic chamber CLIMATS 4000 H 70/4G with Spirale 3 controller

Dimensions of the test section:

2000 x 1900 x 1060 mm (4000 l);

Temperature range: -70°C ÷ +180°C;

Humidity range: 20% ÷ 95%.









Temperature/humidity test chamber CLIMATS Excal 7728-HE with Spirale 3 control system

Dimensions of the test section:

900 x 950 x 900 mm (770 l);

Temperature range: -90°C ÷ +200°C;

Temperature variation speed:

17°C/min within temperature range -55°C to +180°C

Humidity range: 20% ÷ 95%.

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Temperature/pressure test chamber CLIMATS 1000 FCV 70/1 with Spirale VS controller

Dimensions of the test section:

1000 x 1000 x 1000 mm (1000 l);

Temperature range: -70°C ÷ +180°C;

Pressure range:

- from atmospheric to 10 hPa without temperature regulation;
- From atmospheric to 50 hPa with temperature regulation;
- from atmospheric to 1070 hPa.













SOFTWALL CLEANROOMS mobile and movable Model SC-35/25/29

Dimensions: 3,5 x 3,0 x 2,6 m;

Curtains made from transparent and antistatic PCV strips;

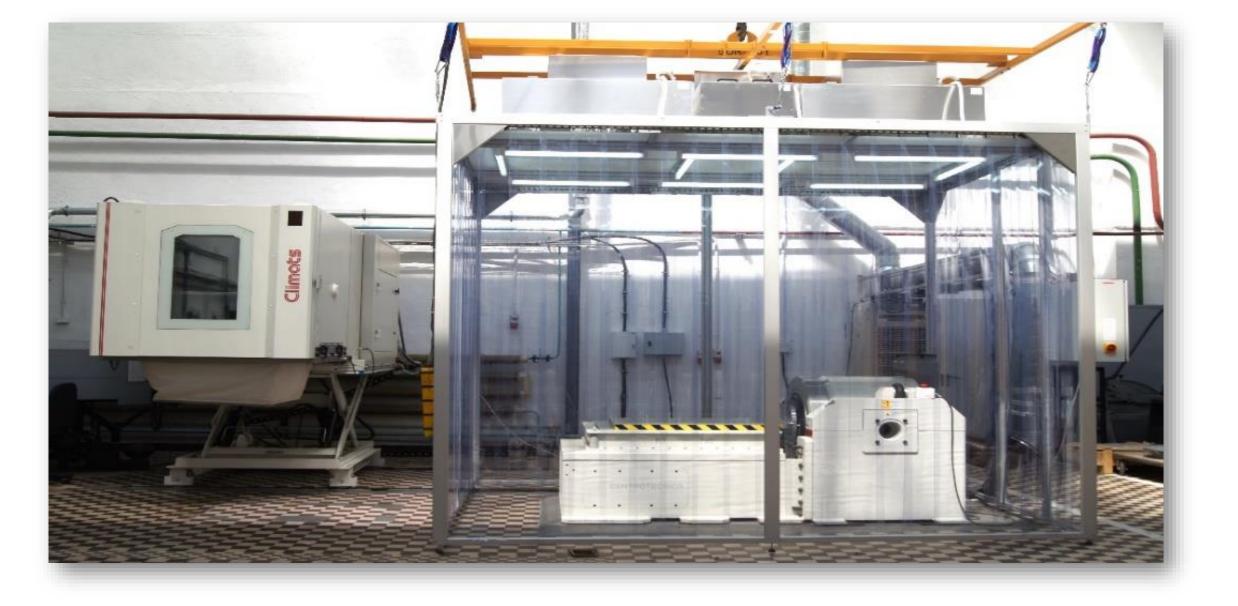
HEPA Filter - ISO7;

Automatic flow speed: 0,45 m/s;

Available for use during vibration tests.









Salt Spray Test Machine Model SF/CCT/VH with **Eurotherm controller**

Dimensions:

850 x 2000 x 1000 mm (1700 l)

Temperature range: up to +60°C;

Tests according to:

MIL STD-810E, ISO 6270-2, DIN 50.02, ASTM 13117;

Humidity range: 15% ÷ **95%**.









Spray and Splash Water Test chamber SWT 600/800 with Simpati controller

Dimensions:

1810 x 1800 x 1800 mm (5800 l);

Rotary table diameter: 600 mm;

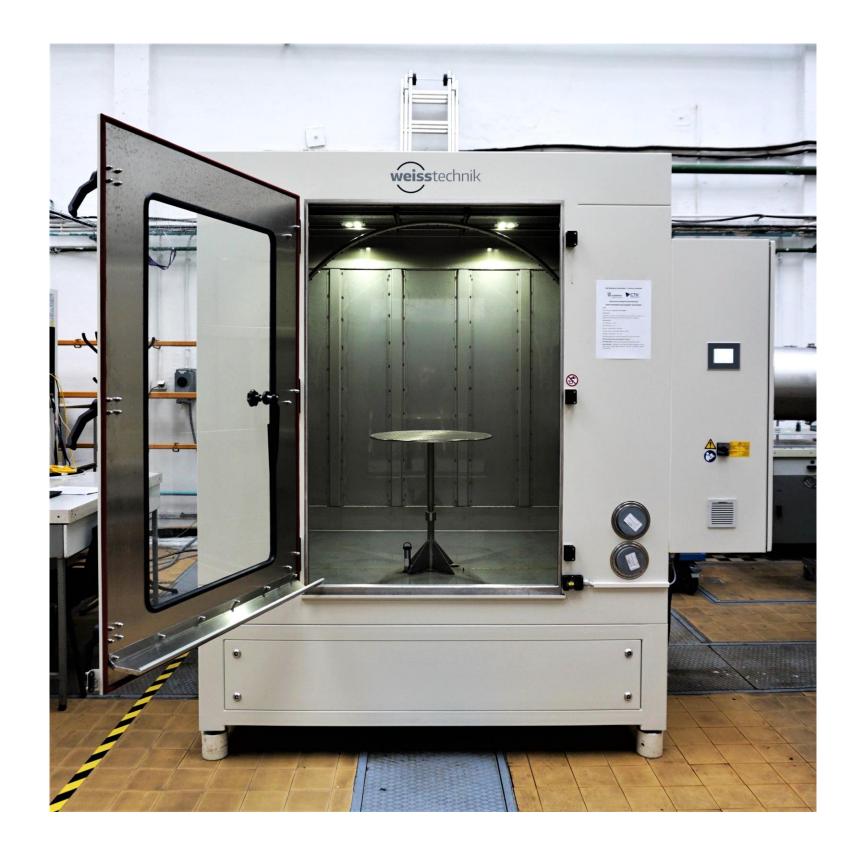
Tests according to:

IPX1, IPX2, IPX3, IPX4, IPX5, IPX6 and IPX6K.











Sun simulation test chamber SunEvent SUN/1000 with Simpati controller

Dimensions:

1000 x 1000 x 1000 mm (1000 l);

Irradiation unit:

metal halid lamp: 2500 W;

light range: 280 – 3000 nm;

irradiation intensity: 400 – 1125 W/m².











Dust Test chamber ST 2000U with Simpati controller

Dimensions:

1000 x 1900 x 950 mm (1800 l);



Dust density: 5 kg of dry, fine grained talcum;

Testing possible in temperature of value up to 55°C.

Tests according to DIN EN 60529.



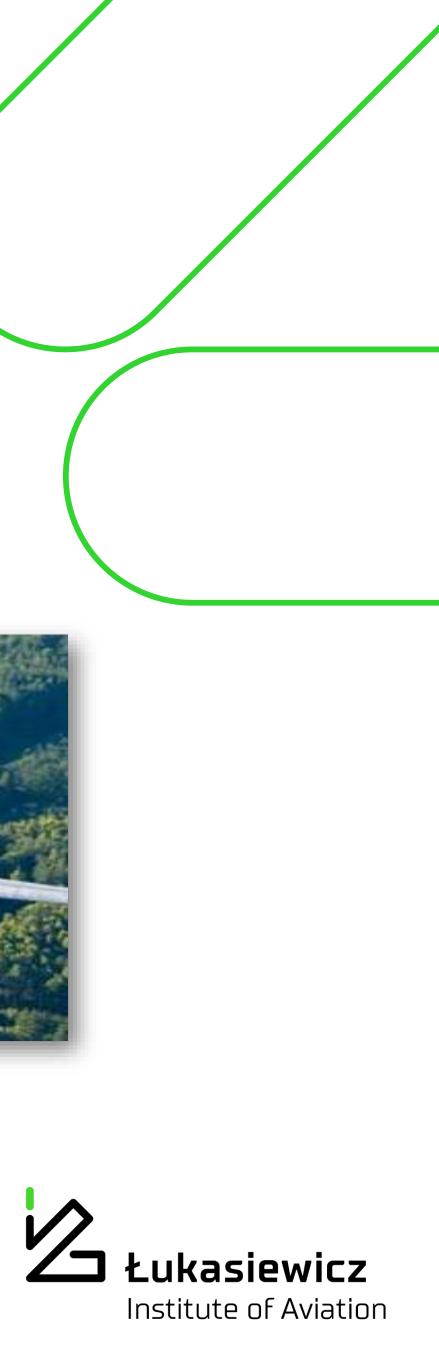














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