

## Status 2016:

# Lantal's Pneumatic Comfort System PCS

**Fully qualified: PCS is now also qualified/certified on Boeing B777 and B787, in addition to all Airbus from A320 to A380**



**Lantal's Pneumatic Comfort System PCS is now also fully qualified for B787 and for B777, A350 qualification is in progress. Electronics and cushions with covers made by Lantal have performed excellently in the challenging new tests. PCS is flying on Boeing B767, B777, and B787 aircrafts, as well as Airbus A319 to A321, A330 and A340 and A380. Qualification by similarity will be used for the PCS electronics on future projects on these aircraft types. In addition, PCS performs traditionally well in the dynamic tests for 16 g forward and for 14 g downward, as well as in flammability testing, despite its very light weight.**

**Superior comfort and low total cost of ownership support PCS in gaining ever wider distribution and market share. At the end of last year Etihad unveiled their new B787 and A380 aircrafts to the world with PCS in the prestigious business class as well as in the super first class, the new standard for luxury in commercial air travel.**

The pneumatic cushions offer unprecedented seating and sleeping comfort resulting in enthusiastic passenger reviews and loyal customers. Having accumulated over 250 million PAX flight hours on over 200 aircraft, the Pneumatic Comfort System has proven to be very reliable, maintenance-free, and mature in operation. Combined with the significant weight reduction, and therefore the lowest total cost of ownership, these unique advantages for airlines and passengers make the "Lantal System" – the winning choice in long-haul air travel.

Lantal's PCS can be installed on any aircraft seat. We have successfully completed projects with B/E Aerospace B/C and F/C seats as well as B/C seats from Zodiac and Stelia (Sogerma). Lantal has supplied PCS for 9 projects using the Thompson Aero Seating "Vantage Seat" and "Vantage XL Seat".

Solar Impulse, the solar airplane of Bertrand Piccard and André Borschberg, is backed by Lantal as an Official Supplier. This project poses the ultimate test for comfort on long duration flights of up to 7 days, and for the PCS reliability in a very harsh environment. As the cabin is neither pressurized nor heated, our PCS may experience temperatures between 40° C with high humidity and -20° C at an altitude of 8'000 m. An incredible challenge for man and technology.

**Lantal PCS key benefits and features for passengers and airlines:**

- **Rapid return on investment:** The sum of lower weight, highest reliability, maintenance-free operation, and stable performance over a long product life cycle, combined with satisfied, loyal passengers, results in a remarkably short period of time for a positive return on investment.
- **Comfort for passengers** – The firmness of every air cushion is adjustable to the position of the seat and the personal preferences of the passenger.
- **Highly visible positioning for airlines** – The PCS is a key marketing asset for increasing the airline's load factor and passenger loyalty in a highly competitive market. Premium class passengers seek comfortable sleep and relaxation features like massage and lumbar support.
- **Highest reliability:** With over 250 million PAX flight hours accumulated on over 200 aircrafts since 2009, the Pneumatic Comfort System has exhibited a reliability track record well above guaranteed MTBF of 60'000 flight hours for its components.
- **Weight and overall cost reduction** – Replacing standard foams with Lantal's air cushions results in a net saving of 1.5 to 3 kg in B/C and 3 to 5 kg in F/C per passenger seat (incl. electronics). Operating costs are significantly lowered through weight savings and a maintenance-free design.
- **Stability in performance** – The pneumatic system requires no maintenance. The cushions maintain their comfort performance and shape over the entire life time – more than 8 years.
- **Safety** – Less flammable material, reduced heat release, very low emissions in case of fire.
- **Hygiene** – No uptake of fluids or odors, resulting in improved aircraft cabin hygiene.

The Pneumatic Comfort System makes a real difference and sets new standards in passenger comfort with a fast and substantial impact on the profitability of an airline. It is available for the following products:

**Pneumatic Comfort System available for:**

First class passenger seats  
Business class passenger seats

**Status:**

In service since April 2009, 190 PAX delivered  
In service since April 2009, 10'000 PAX delivered

Premium Economy class passenger seats  
Economy passenger seats  
Pilot seats

Available  
Available starting Q4/2016  
Available, evaluation at major A/C manufacturer  
Installed in Solar Impulse,

Mattresses for VIP jets (Kingsize, divans, etc)  
Crew rest mattresses

In service since 2008  
Available

Lantal works with all aircraft seat manufacturers and offers them an attractive and unique turn-key system with full documentation and extensive technical and operational support.

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**Contact**

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