



## Introducing the newest PCA technology

In the last decades, the cooling of the aircraft has been conventionally carried out with DX equipment, whereby optimal cooling of the Aircraft cabin was never achieved. ISTinox DXi stands for a conventional, stand-alone PCA device (DX) with the difference that we revolutionize the cooling of the aircraft with an innovative (i) new concept and thus ensuring the well-being of the passengers and the aircraft crew under all conditions.

### The problem

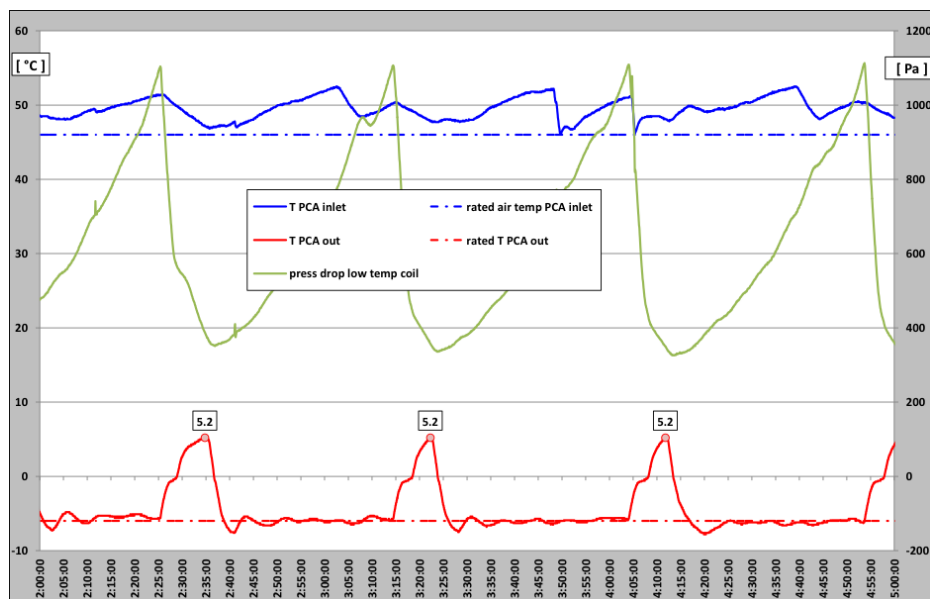
Aircrafts cannot be cooled to specified cabin temperatures with hot outside temperatures.

### The Need

Ensuring the well-being of passengers and crew, even at extremely high outside air temperatures.

### The solution

With a new cooling concept, continuous cooling of the docked aircraft is guaranteed.



Under rated conditions the ISTinox PCA unit produces the required air flow rate (15'000 kg/hr) and cools it constantly to the required temperature. In order to optimize the cooling of the aircrafts, the new DXi unit has two cooling coils to

ensure continuous cooling of the aircraft even during defrosting. In addition, the new refrigeration concept also optimizes the regulation of the defrost cycle.



De-icing only takes place when it is necessary and, contrary to existing systems, it is not timed but measured. The de-icing cycle takes place approximately every 50 minutes and lasts around 6-8 minutes. During the defrosting cycle, the first compressor runs continuously; thus, the temperature of the PCA does not climb to values higher approx. 5,5°C during the defrosting cycle and continuous cooling of the aircraft is guaranteed.

#### High operational safetyLow operating costs

#### Easy to maintain

- The dual-circuit cooling system ensures continuous cooling of the aircraft.
- The PCA outlet temperature is very stable throughout the process.
- Defrosting takes place only when needed and not according to a fixed schedule.
- Longevity thanks to uncompromising execution quality with high-quality materials.
- Thermally separated device housing ensures low energy losses.
- All components are heavy-duty industrial standard with a long service life at low maintenance.
- All components are easily accessible for maintenance and cleaning thanks to large inspection doors.

Would you like to convince yourself of the performance of our new ISTinox DXi device? You are welcome to visit us and join one of our performance tests in March and April 2019.

For more information, please contact Andrea Zimmermann directly.

Mail: [a.zimmermann@istinox.ch](mailto:a.zimmermann@istinox.ch)  
Phone: +41 33 334 26 00

