

## Cooling of high pressure air with air as cooling medium

### The problem

Air planes with a pressurized cabin needs pressurized air as carrier of cooling/heating for the HVAC-system and in the ice defrost system.

The only available pressurized air is from the turbines. The pressure is up to 10 bar/150 psi and the temperature is up to 350°C/660°F.

The problem requires not only an efficiency of up to 99% with limited air as cooling medium.

The heat exchanger must be compact, mechanically strong and most important: have a low weight.



### The solution

As AirCross 21 offers dramatic advantages is our heat exchanger a key component in many projects for small and medium jet turbine planes. Size and weight is reduced up to 80% and efficiency is increased from typically 60% up to 99%.

In our most prestigious project, Eclipse 500, were several tests required as they did not believe the excellent performance with AirCross 21.

In another project did the test pilots refuse to fly until the planes were equipped with AirCross 21.

AirCross 21 is FAA-approved.